

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त महायुक्त कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 08.02.2015
Date of Reporting : 09.02.2015

I. Regional Availability/Demand:

| Demand Met | Evening Peak (19:00 Hrs) MW | | | Off Peak (03:00 Hrs) MW | | | Day Energy (Net MU) | | |
|------------|-----------------------------|-------------|------------|-------------------------|----------|-------------|---------------------|------------|----------|
| | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage |
| 35152 | 1695 | 36847 | 50.02 | 29210 | 734 | 29944 | 50.17 | 779.7 | 41.09 |

* 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 | 33.97 | 7.96 | | 41.93 | 40.47 | 41.03 | 0.56 | 82.96 | 0.00 |
| Haryana | 58.76 | 0.37 | | 59.13 | 48.52 | 48.23 | -0.29 | 107.35 | 0.00 |
| Rajasthan | 119.93 | 4.80 | 21.46 | 146.19 | 56.25 | 57.27 | 1.02 | 203.45 | 0.00 |
| Delhi | 17.67 | | | 17.67 | 40.32 | 39.23 | -1.09 | 56.91 | 0.00 |
| UP | 127.70 | 2.90 | | 130.60 | 95.10 | 95.91 | 0.81 | 226.51 | 33.39 |
| Uttarakhand | | 8.64 | | 8.64 | 22.56 | 24.02 | 1.46 | 32.66 | 0.21 |
| HP | | 4.56 | | 4.56 | 19.37 | 19.57 | 0.20 | 24.13 | 0.00 |
| J & K | | 4.45 | 0.00 | 4.45 | 36.94 | 37.99 | 1.04 | 42.43 | 7.49 |
| Chandigarh | | | | 0.00 | 3.37 | 3.29 | 0.27 | 3.29 | 0.00 |
| Total | 358.03 | 33.67 | 21.46 | 413.16 | 362.90 | 366.54 | 3.99 | 779.70 | 41.09 |

* 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 | 4038 | 0 | -87 | -124 | 2799 | 0 | 140 | -253 | 4280 |
| Haryana | 5692 | 0 | 73 | -747 | 3384 | 0 | 166 | -1049 | 6015 |
| Rajasthan | 8167 | 0 | -153 | 405 | 7829 | 0 | -65 | 1017 | 9640 |
| Delhi | 2648 | 0 | -221 | -280 | 1373 | 0 | -21 | -834 | 3458 |
| UP | 9755 | 1280 | 51 | 62 | 10086 | 445 | 123 | 68 | 10086 |
| Uttarakhand | 1662 | 75 | 13 | 433 | 1201 | 0 | 75 | 391 | 1690 |
| HP | 1093 | 0 | 147 | 226 | 804 | 0 | -5 | 406 | 1304 |
| J&K | 1927 | 340 | 71 | 685 | 1639 | 289 | 43 | 645 | 2279 |
| Chandigarh | 171 | 0 | -14 | 0 | 95 | 0 | 2 | -31 | 193 |
| Total | 35152 | 1695 | -119 | 661 | 29210 | 734 | 458 | 360 | 35974 |

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

Diversity is 1.08

III. Regional Entities :

| 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 | 1925 | 2082 | 1978 | 48.22 | 2009 | 44.77 | 3.44 |
| Rihand I STPS (2*500) | 1000 | 914 | 915 | 978 | 22.06 | 919 | 20.34 | 1.71 |
| Rihand II STPS (2*500) | 1000 | 900 | 775 | 848 | 21.15 | 881 | 20.05 | 1.10 |
| Rihand III STPS (2*500) | 1000 | 969 | 858 | 903 | 21.47 | 895 | 19.91 | 1.56 |
| Dadri I STPS (4*210) | 840 | 815 | 621 | 602 | 15.06 | 628 | 14.19 | 0.87 |
| Dadri II STPS (2*490) | 980 | 980 | 748 | 690 | 17.56 | 732 | 17.33 | 0.23 |
| Unchahar I TPS (2*210) | 420 | 405 | 271 | 285 | 6.98 | 291 | 8.41 | -1.43 |
| Unchahar II TPS (2*210) | 420 | 403 | 321 | 273 | 6.71 | 279 | 7.35 | -0.64 |
| Unchahar III TPS (1*220) | 210 | 201 | 150 | 136 | 3.30 | 138 | 3.66 | -0.36 |
| ISTPP (Jhajhar) (3*500) | 1500 | 1500 | 766 | 608 | 16.04 | 668 | 17.31 | -1.27 |
| Dadri GPS (4*130.19+2*154.51) | 830 | 647 | 389 | 393 | 9.38 | 391 | 9.31 | 0.07 |
| Anta GPS (3*88.71+1*153.2) | 419 | 426 | 241 | 250 | 5.61 | 234 | 6.17 | -0.56 |
| Auraiya GPS (4*111.19+2*109.30) | 663 | 510 | 164 | 169 | 4.03 | 168 | 3.98 | 0.05 |
| Dadri Solar | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.03 | -0.01 |
| Unchahar Solar | 10 | 3 | 0 | 0 | 0.00 | 0 | 0.07 | -0.07 |
| Singrauli Solar | 15 | 2 | 0 | 0 | 0.09 | 4 | 0 | 0.05 |
| Sub Total (A) | 11312 | 10600 | 8301 | 8113 | 198 | 8236 | 193 | 5 |
| B. NPC | | | | | | | | |
| NAPS (2*220) | 440 | 396 | 427 | 435 | 9.42 | 392 | 9.50 | -0.09 |
| RAPS- B (2*220) | 440 | 413 | 456 | 455 | 9.90 | 413 | 9.91 | -0.01 |
| RAPS- C (2*220) | 440 | 214 | 234 | 235 | 4.94 | 206 | 5.14 | -0.20 |
| Sub Total (B) | 1320 | 1023 | 1117 | 1125 | 24.26 | 1011 | 24.55 | -0.29 |
| C. NHPC | | | | | | | | |
| Chamera I HPS (3*180) | 540 | 534 | 136 | 0 | 1.66 | 69 | 1.60 | 0.06 |
| Chamera II HPS (3*100) | 300 | 200 | 203 | 0 | 0.00 | 0 | 1.83 | -1.83 |
| Chamera III HPS (3*77) | 231 | 232 | 226 | 0 | 1.06 | 44 | 1.08 | -0.02 |
| Bairasuli HPS(3*60) | 180 | 179 | 180 | 0 | 0.71 | 29 | 0.67 | 0.04 |
| Salal-HPS (6*115) | 690 | 102 | 230 | 67 | 2.48 | 103 | 2.45 | 0.04 |
| Tanakpur-HPS (3*40) | 94 | 24 | 24 | 24 | 0.60 | 25 | 0.57 | 0.03 |
| Uri-I HPS (4*120) | 480 | 137 | 221 | 55 | 3.53 | 147 | 3.34 | 0.20 |
| Uri-II HPS (4*60) | 240 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Dhauliganga-HPS (4*70) | 280 | 140 | 139 | 0 | 0.85 | 35 | 0.80 | 0.05 |
| Dulhasti-HPS (3*130) | 390 | 359 | 271 | 0 | 2.19 | 91 | 2.20 | -0.01 |
| Sewa-II HPS (3*40) | 120 | 119 | 121 | 0 | 0.83 | 35 | 0.90 | -0.07 |
| Parbati 3 (4*130) | 520 | 260 | 136 | 0 | 0.25 | 10 | 0.26 | -0.01 |
| Sub Total (C) | 4065 | 2286 | 1888 | 146 | 14 | 590 | 16 | -2 |
| D. SJVNL | | | | | | | | |
| NJPC (6*250) | 1500 | 1605 | 1325 | 0 | 5.35 | 223 | 5.31 | 0.04 |
| Rampur HEP (4*68.67) | 275 | 338 | 298 | 0 | 1.38 | 57 | 1.36 | 0.02 |
| Sub Total (D) | 1775 | 1943 | 1623 | 0 | 6.73 | 280 | 6.67 | 0.05 |
| E. THDC | | | | | | | | |
| Tehri HPS (4*250) | 1000 | 916 | 917 | 0 | 7.57 | 315 | 7.60 | -0.03 |
| Koteshwar HPS (4*100) | 400 | 121 | 298 | 95 | 2.92 | 122 | 2.90 | 0.02 |
| Sub Total (E) | 1400 | 1037 | 1215 | 95 | 10.49 | 437 | 10.50 | -0.01 |
| F. BBMB | | | | | | | | |
| Bhakra HPS (3*108+2*126+6*157) | 1514 | 699 | 1171 | 421 | 17.11 | 713 | 16.77 | 0.34 |
| Dehar HPS (6*165) | 990 | 130 | 330 | 0 | 3.06 | 128 | 3.12 | -0.06 |
| Pong HPS (6*66) | 396 | 152 | 360 | 0 | 3.53 | 147 | 3.65 | -0.12 |
| Sub Total (F) | 2900 | 981 | 1861 | 421 | 23.70 | 988 | 23.54 | 0.16 |
| G. IPP(s)/JV(s) | | | | | | | | |
| ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 0 | 0 | 0.31 | 13 | 0.30 | 0.01 |
| KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 0 | 0 | 2.82 | 118 | 2.90 | -0.08 |
| Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Shree Cement TPS (2*150) | 300 | 0 | 135 | 78 | 2.86 | 119 | 2.90 | -0.04 |
| Budhil HPS(IPP) | 70 | 0 | 0 | 0 | 0.07 | 3 | 0.07 | 0.00 |
| Sub Total (G) | 1662 | 0 | 135 | 78 | 6.06 | 253 | 6.17 | -0.11 |
| H. Total Regional Entities (A-G) | 24434 | 17870 | 16140 | 9978 | 283.07 | 11795 | 280.04 | 3.03 |

| 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 | 480 | 520 | 11.25 | 469 |
| | Guru Nanak Dev TPS(Bhatinda) (4*110) | 440 | 100 | 100 | 2.18 | 91 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 565 | 530 | 12.01 | 500 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 356 | 359 | 8.53 | 355 |
| | Talwandi Saboo (1*660) | 660 | 0 | 0 | 0.00 | 0 |
| | Thermal (Total) | 4680 | 1501 | 1509 | 33.97 | 1415 |
| | Total Hydro | 1148 | 408 | 242 | 7.96 | 332 |
| Total Punjab | 5828 | 1909 | 1751 | 41.93 | 1747 | |
| Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 471 | 437 | 10.52 | 438 |
| | DCRTPP (Yamuna nagar) (2*300) | 600 | 539 | 493 | 11.81 | 492 |
| | Faridabad GPS (NTPC) | 432 | 196 | 205 | 4.63 | 193 |
| | RGTPP (khedar) (IPP) (2*600) | 1200 | 977 | 725 | 18.88 | 787 |
| | Magnum Diesel (IPP) | 25 | 0 | 0 | 0.00 | 0 |
| | Jhajjar(CLP) (2*660) | 1320 | 616 | 372 | 12.92 | 538 |
| | Thermal (Total) | 4944 | 2799 | 2232 | 58.76 | 2448 |
| | Total Hydro | 62 | 9 | 12 | 0.37 | 15 |
| | Total Haryana | 5006 | 2808 | 2244 | 59.13 | 2464 |
| | Rajasthan | kota TPS (2*110+2*195+3*210) | 1240 | 860 | 860 | 20.92 |
| suratgarh TPS (6*250) | | 1500 | 1135 | 1131 | 27.14 | 1131 |
| Chabra TPS (3*250) | | 750 | 750 | 750 | 18.22 | 759 |
| Dholpur GPS (3*110) | | 330 | 0 | 114 | 1.81 | 75 |
| Ramgarh GPS (1*3 + 1*35.5 +2*37.5 +1*110 +1*50) | | 271 | 147 | 143 | 3.67 | 153 |
| RAPS A (NPC) (1*100+1*200) | | 300 | 159 | 164 | 4.02 | 168 |
| Barsingsar (NLC) (2*125) | | 250 | 189 | 188 | 4.16 | 173 |
| Giral LTPS (2*125) | | 250 | 64 | 50 | 0.99 | 41 |
| Rajwast LTPS (IPP) (8*135) | | 1080 | 514 | 512 | 15.99 | 666 |
| 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 | 884 | 978 | 23.02 | 959 |
| Thermal (Total) | | 8026 | 4702 | 4890 | 120 | 4997 |
| Total Hydro | | 550 | 254 | 90 | 4.80 | 200 |
| Wind power | | 2798 | 880 | 836 | 20.92 | 872 |
| Biomass | | 99 | 18 | 18 | 0.44 | 18 |
| Solar | | 730 | 1 | 0 | 0.10 | 4 |
| Renewable/Others (Total) | | 3627 | 899 | 854 | 21.46 | 894 |
| Total Rajasthan | | 12203 | 5855 | 5834 | 146.19 | 6091 |
| UP | Anpara TPS (3*210+2*500) | 1630 | 1219 | 1028 | 27.80 | 1158 |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 319 | 318 | 7.60 | 317 |
| | Paricha TPS (2*110+2*220+2*250) | 1140 | 637 | 645 | 15.40 | 642 |
| | Panki TPS (2*105) | 210 | 126 | 140 | 3.10 | 129 |
| | Harduaganj TPS (1*60+1*105+2*250) | 665 | 234 | 450 | 8.60 | 358 |
| | Tanda TPS (NTPC) (4*110) | 440 | 400 | 383 | 9.50 | 396 |
| | Roza TPS (IPP) (4*300) | 1200 | 585 | 810 | 16.20 | 675 |
| | Anpara-C (IPP) (2*600) | 1200 | 540 | 547 | 13.00 | 542 |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 280 | 401 | 7.30 | 304 |
| | Thermal (Total) | 8129 | 4340 | 4722 | 108.50 | 4521 |
| | Vishnuparyag HPS (IPP) | 400 | 8 | 73 | 1.60 | 67 |
| | Other Hydro | 527 | 62 | 174 | 1.30 | 54 |
| | Cogeneration | 981 | 800 | 800 | 19.20 | 800 |
| | Total UP | 10037 | 5210 | 5769 | 130.60 | 5375 |
| | Uttarakhand | Total Hydro | 1398 | 542 | 293 | 8.64 |
| Total Uttarakhand | | 1398 | 542 | 293 | 8.64 | 360 |
| Delhi | Raighat TPS (2*67.5) | 135 | 33 | 35 | 0.77 | 32 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 75 | 78 | 1.84 | 76 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 159 | 163 | 3.86 | 161 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (6*250) | 1370 | 322 | 271 | 7.33 | 305 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 163 | 165 | 3.89 | 162 |
| | Thermal (Total) | 2917 | 752 | 712 | 17.67 | 736 |
| Total Delhi | 2917 | 752 | 712 | 17.67 | 736 | |
| HP | Baspa HPS (IPP) (2*150) | 300 | 62 | 0 | 1.04 | 43 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.22 | 9 |
| | Other Hydro | 728 | 163 | 117 | 3.31 | 138 |
| | Total HP | 1114 | 225 | 117 | 4.56 | 190 |
| J & K | Baqilhar HPS (IPP) (3*150) | 450 | 150 | 120 | 3.09 | 129 |
| | Other Hydro/IPP | 436 | 91 | 40 | 1.36 | 57 |
| | Gas/Diesel/Others | 209 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1094 | 241 | 160 | 4.45 | 185 |
| Total State Control Area Generation | | 39597 | 17542 | 16880 | 413.16 | 17148 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 3867 | 3163 | 102.90 | 4287 |
| Total Regional Availability(Gross) | | 64032 | 37549 | 30021 | 799.13 | 33230 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|-------------|-------------|--------------|-------------|
| Regional Entities Hydro | 11432 | 6586 | 662 | 58.22 | 2426 |
| State Control Area Hydro | 5684 | 1741 | 1088 | 33.67 | 1336 |
| Total Regional Hydro | 17116 | 8327 | 1750 | 91.89 | 3762 |

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 | Import | Export | |
| Vindhychal B/B | -250 | -500 | 0 | 500 | 0.00 | 10.41 | -10.41 | | |
| Gwalior-Agra (D/C) | 949 | 1056 | 2045 | 0 | 35.84 | 0.00 | 35.84 | | |
| Zerda-Kankroli | -236 | -342 | 0 | 358 | 0.00 | 4.43 | -4.43 | | |
| Zerda-Bhinmal | -203 | -263 | 77 | 305 | 0.00 | 2.81 | -2.81 | | |
| Malanpur-Auraiya | -100 | -86 | 0 | 105 | 0.00 | 1.81 | -1.81 | | |
| Badod-Kota/Morak | -117 | -165 | 0 | 193 | 3.14 | 2.93 | 0.21 | | |
| Mundra-Mohindergarh(HVDC) | 2298 | 2298 | 2305 | 0 | 53.06 | 0.00 | 53.06 | | |
| Vindhychal - Rihand | 489 | 418 | 489 | 0 | 11.38 | 0.00 | 11.38 | | |
| Sub Total WR | 2830 | 2416 | | | 103.42 | 22.39 | 81.03 | | |
| Pusauli Bypass | 400 | 400 | 400 | 0 | 8.97 | 0.00 | 8.97 | | |
| MZP- GKP (D/C) | 154 | 76 | 169 | 183 | 0.00 | 1.02 | -1.02 | | |
| Patna-Balia(D/C) | 481 | 413 | 649 | 0 | 11.85 | 0.00 | 11.85 | | |
| B'Sharif-Balia (D/C) | -150 | -170 | 0 | 239 | 0.00 | 2.37 | -2.37 | | |
| Pusauli-Balia | -1 | 27 | 148 | 37 | 0.38 | 0.00 | 0.38 | | |
| Gaya-Fatehpur (765 Kv) | 151 | 82 | 300 | 0 | 4.24 | 0.00 | 4.24 | | |
| Pusauli-Sahupuri | 193 | 154 | 193 | 0 | 3.25 | 0.00 | 3.25 | | |
| K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | | |
| Son Ngr-Rihand | -33 | -44 | 0 | 49 | 0.00 | 0.91 | -0.91 | | |
| Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | | |
| Sasaram - Fatehpur(765 KV) | -158 | -191 | 59 | 200 | 0.00 | 2.51 | -2.51 | | |
| Sub Total ER | 1037 | 747 | | | 28.69 | 6.82 | 21.87 | | |
| Total IR Exch | 3867 | 3163 | | | 132.11 | 29.21 | 102.90 | | |

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 |
| 20.84 | 0.19 | 21.03 | 5.20 | -1.30 | 7.87 | 7.75 | 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 |
| 34.32 | 70.59 | 104.90 | 21.87 | 81.03 | 102.90 | -12.45 | 10.44 | -2.01 |

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 | 0.00 | 0.69 | 4.34 | 37.43 | 61.72 | 19.92 | 11.55 | 2.58 | NA |

| Frequency (Hz) | | | | Average Frequency Hz | Frequency Variation Index | Std. Dev. | Frequency in 15 Min Block | |
|----------------|-------|---------|-------|----------------------|---------------------------|-----------|---------------------------|----------|
| Maximum | | Minimum | | | | | MAX (Hz) | MIN (Hz) |
| Freq | Time | Freq | Time | | | | | |
| 50.38 | 18.02 | 49.71 | 22.07 | 50.03 | 0.07 | 0.08 | 0.00 | 0 |

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 | 408 | 03:03 | 401 | 06:57 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 411 | 21:46 | 396 | 18:09 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly | 400 | 424 | 21:43 | 404 | 15:36 | 0.0 | 0.0 | 8.4 | 0.0 |
| Kanpur | 400 | 422 | 03:52 | 402 | 15:36 | 0.0 | 0.0 | 2.9 | 0.0 |
| Dadri | 400 | 421 | 03:52 | 402 | 09:46 | 0.2 | 0.2 | 0.4 | 0.0 |
| Ballabgarh | 400 | 429 | 03:25 | 405 | 15:36 | 0.0 | 0.0 | 30.0 | 0.0 |
| Bawana | 400 | 426 | 03:03 | 407 | 15:36 | 0.0 | 0.0 | 28.3 | 0.0 |
| Bassi | 400 | 424 | 05:00 | 395 | 08:32 | 0.0 | 0.0 | 9.8 | 0.0 |
| Hissar | 400 | 417 | 03:22 | 399 | 07:12 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 424 | 21:00 | 405 | 07:15 | 0.0 | 0.0 | 4.4 | 0.0 |
| Abdullapur | 400 | 426 | 03:22 | 396 | 18:41 | 0.0 | 0.0 | 24.3 | 0.0 |
| Nalagarh | 400 | 431 | 20:59 | 411 | 08:18 | 0.0 | 0.0 | 39.9 | 0.7 |
| Kishenpur | 400 | 225 | 18:00 | 208 | 19:01 | 100.0 | 100.0 | 0.0 | 0.0 |
| Wagoora | 400 | 411 | 18:01 | 363 | 19:06 | 24.6 | 71.4 | 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 | 780 | 04:00 | 742 | 07:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 779 | 03:58 | 753 | 18:11 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 800 | 21:00 | 765 | 07:17 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 794 | 21:48 | 752 | 07:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 803 | 21:54 | 765 | 07:15 | 0.0 | 0.0 | 2.2 | 0.0 |
| Unnao | 765 | 776 | 04:00 | 743 | 15:38 | 0.0 | 0.0 | 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 | 489.47 | 719.44 | 494.52 | 880.64 | 99.25 | 546.94 |
| Pong | 426.72 | 384.05 | 400.38 | 230.85 | 407.47 | 416.46 | 62.07 | 253.07 |
| Tehri | 829.79 | 740.04 | 794.20 | 515.00 | 798.50 | 582.30 | 36.64 | 191.00 |
| Koteshwar | 612.50 | 598.50 | 610.47 | 4.69 | 610.36 | 4.69 | 191.00 | 194.00 |
| Chamera-I | 760.00 | 748.75 | 759.51 | 0.00 | 0.00 | 0.00 | 64.39 | 45.03 |
| Rihand | 268.22 | 252.98 | 849.10 | 241.10 | 852.70 | 299.60 | 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 | 502.34 | 0.99 | 508.75 | 2.35 | 51.47 | 74.15 |

* 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 | -322 | 69 | 0 | -291 | 167 | 0 | -7.24 | 3.60 | -3.63 |
| Delhi | -689 | -115 | -31 | -477 | 205 | -8 | -10.64 | 1.07 | -9.56 |
| Haryana | -832 | -217 | 0 | -829 | 82 | 0 | -21.15 | 0.34 | -20.82 |
| HP | 411 | -5 | 0 | 381 | -155 | 0 | 11.17 | -2.37 | 8.80 |
| J&K | 645 | 0 | 0 | 466 | 219 | 0 | 13.11 | 1.98 | 15.09 |
| CHD | -31 | 0 | 0 | 0 | 0 | 0 | -0.25 | 0.07 | -0.17 |
| Rajasthan | 488 | 528 | 2 | 488 | -84 | 2 | 11.70 | 8.44 | 20.14 |
| UP | 68 | 0 | 0 | 62 | 0 | 0 | -0.54 | 0.00 | -0.54 |
| Uttarakhand | 267 | 71 | 53 | 267 | 166 | 0 | 6.32 | 4.35 | 10.67 |
| Total | 5 | 331 | 25 | 68 | 599 | -6 | 2.50 | 17.48 | 19.98 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -291 | -322 | 311 | 3 | 0 | 0 |
| Delhi | -123 | -689 | 395 | -197 | 0 | -31 |
| Haryana | -829 | -999 | 134 | -268 | 0 | 0 |
| HP | 539 | 381 | 16 | -540 | 0 | 0 |
| J&K | 645 | 466 | 268 | -77 | 0 | 0 |
| CHD | 0 | -31 | 24 | 0 | 0 | 0 |
| Rajasthan | 488 | 488 | 531 | -846 | 2 | -7 |
| UP | 104 | -198 | 0 | 0 | 0 | 0 |
| Uttarakhand | 267 | 252 | 300 | 34 | 73 | 0 |

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 08.02.2015 :**

Cloudy weather in some part of NR

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 :**