

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त महायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.11.2014
Date of Reporting : 29.11.2014

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 |
| 38984 | 1704 | 40688 | 50.11 | 29421 | 655 | 30076 | 50.11 | 801.2 | 38.36 |

* 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 | 48.19 | 8.26 | | 56.46 | 47.61 | 49.28 | 1.67 | 105.74 | 0.00 |
| Haryana | 59.56 | 0.40 | | 59.96 | 51.53 | 51.36 | -0.17 | 111.32 | 0.00 |
| Rajasthan | 125.84 | 4.35 | 2.98 | 133.17 | 70.38 | 74.61 | 4.22 | 207.77 | 0.00 |
| Delhi | 18.22 | | | 18.22 | 41.55 | 41.72 | 0.17 | 59.94 | 0.00 |
| UP | 126.18 | 3.10 | | 129.28 | 89.33 | 85.69 | -3.65 | 214.97 | 28.63 |
| Uttarakhand | | 6.93 | | 6.93 | 24.59 | 25.35 | 0.75 | 32.27 | 0.18 |
| HP | | 5.29 | | 5.29 | 19.00 | 19.34 | 0.35 | 24.63 | 0.00 |
| J & K | | 6.29 | 0.00 | 6.29 | 32.65 | 34.79 | 2.13 | 41.07 | 9.55 |
| Chandigarh | | | | 0.00 | 3.28 | 3.45 | 0.17 | 3.45 | 0.00 |
| Total | 377.99 | 34.61 | 2.98 | 415.58 | 379.93 | 385.58 | 5.65 | 801.16 | 38.36 |

* 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 | 5443 | 0 | 50 | -345 | 3571 | 0 | 111 | -372 | 5443 |
| Haryana | 5865 | 0 | 83 | -630 | 3917 | 0 | 80 | -584 | 5865 |
| Rajasthan | 9260 | 0 | -156 | 507 | 7997 | 0 | 15 | 1104 | 9534 |
| Delhi | 3228 | 0 | 75 | -175 | 1514 | 0 | -67 | -967 | 3228 |
| UP | 10173 | 1190 | -183 | 139 | 8862 | 370 | -124 | 75 | 10225 |
| Uttarakhand | 1668 | 40 | 15 | 562 | 1097 | 0 | 44 | 432 | 1695 |
| HP | 1265 | 0 | -29 | 348 | 763 | 0 | 5 | 347 | 1358 |
| J&K | 1896 | 474 | -18 | 418 | 1614 | 285 | 49 | 504 | 1926 |
| Chandigarh | 186 | 0 | -12 | 0 | 87 | 0 | 4 | -30 | 189 |
| Total | 38984 | 1704 | -175 | 825 | 29421 | 655 | 117 | 508 | 38984 |

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

figures may not be at simultaneous hour.

Diversity is 1.01

III. Regional Entities :

| 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 |
|---|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
| | | | | | | | | |
| A. NTPC | | | | | | | | |
| Singrauli STPS (5*200+2*500) | 2000 | 1429 | 1648 | 1401 | 37.01 | 1542 | 34.30 | 2.71 |
| Rihand I STPS (2*500) | 1000 | 885 | 949 | 862 | 22.70 | 946 | 21.23 | 1.47 |
| Rihand II STPS (2*500) | 1000 | 970 | 1022 | 943 | 24.58 | 1024 | 23.13 | 1.45 |
| Rihand III STPS (2*500) | 1000 | 475 | 501 | 475 | 11.90 | 496 | 11.34 | 0.56 |
| Dadri I STPS (4*210) | 840 | 798 | 635 | 537 | 16.04 | 668 | 15.26 | 0.78 |
| Dadri II STPS (2*490) | 980 | 980 | 769 | 661 | 20.00 | 833 | 19.90 | 0.10 |
| Unchahar I TPS (2*210) | 420 | 400 | 419 | 376 | 10.00 | 417 | 9.26 | 0.74 |
| Unchahar II TPS (2*210) | 420 | 400 | 438 | 332 | 9.68 | 403 | 8.86 | 0.82 |
| Unchahar III TPS (1*220) | 210 | 200 | 215 | 153 | 4.81 | 201 | 4.41 | 0.40 |
| I-STPP (Jhajjar) (3*500) | 1500 | 1500 | 1448 | 911 | 25.12 | 1047 | 26.77 | -1.65 |
| Dadri GPS (4*130.19+2*154.51) | 830 | 824 | 369 | 392 | 9.24 | 385 | 9.13 | 0.11 |
| Anta GPS (3*88.71+1*153.2) | 419 | 410 | 246 | 251 | 6.97 | 290 | 7.00 | -0.03 |
| Auraiya GPS (4*111.19+2*109.30) | 663 | 438 | 316 | 272 | 7.39 | 308 | 7.28 | 0.10 |
| Dadri Solar | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.03 | -0.01 |
| Unchahar Solar | 10 | 3 | 0 | 0 | 0.03 | 1 | 0.07 | -0.04 |
| Sub Total (A) | 11297 | 9714 | 8975 | 7566 | 205 | 8562 | 198 | 8 |
| B. NPC | | | | | | | | |
| NAPS (2*220) | 440 | 294 | 327 | 333 | 7.03 | 293 | 7.06 | -0.03 |
| RAPS-B (2*220) | 440 | 407 | 448 | 454 | 9.74 | 406 | 9.77 | -0.03 |
| RAPS-C (2*220) | 440 | 440 | 464 | 467 | 10.00 | 417 | 10.56 | -0.56 |
| Sub Total (B) | 1320 | 1141 | 1239 | 1254 | 26.76 | 1115 | 27.38 | -0.62 |
| C. NHPC | | | | | | | | |
| Chamera I HPS (3*180) | 540 | 534 | 370 | 0 | 1.69 | 71 | 1.60 | 0.09 |
| Chamera III HPS (3*100) | 300 | 200 | 201 | 0 | 1.33 | 55 | 1.28 | 0.05 |
| Chamera III HPS (3*77) | 231 | 231 | 149 | 0 | 0.71 | 30 | 0.68 | 0.03 |
| Bairasuli HPS(3*60) | 180 | 60 | 60 | 0 | 0.69 | 29 | 0.64 | 0.05 |
| Salal-HPS (6*115) | 690 | 135 | 220 | 120 | 3.49 | 145 | 3.24 | 0.25 |
| Tanakpur-HPS (3*40) | 94 | 30 | 53 | 38 | 0.79 | 33 | 0.72 | 0.07 |
| Uri-I HPS (4*120) | 480 | 173 | 217 | 140 | 4.43 | 185 | 4.14 | 0.29 |
| Uri-II HPS (4*60) | 240 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Dhauliganga-HPS (4*70) | 280 | 208 | 209 | 0 | 1.18 | 49 | 1.10 | 0.08 |
| Dulhasti-HPS (3*130) | 390 | 387 | 392 | 0 | 3.27 | 136 | 3.10 | 0.17 |
| Sewa-II HPS (3*40) | 120 | 79 | 101 | 0 | 0.26 | 11 | 0.24 | 0.02 |
| Parbati 3 (4*130) | 520 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Sub Total (C) | 4065 | 2036 | 1972 | 298 | 18 | 743 | 17 | 1 |
| D. SJVNL | | | | | | | | |
| NJPC (6*250) | 1500 | 1605 | 1591 | 0 | 8.20 | 342 | 8.00 | 0.20 |
| Rampur HEP (4*68.67) | 275 | 350 | 374 | 0 | 2.22 | 93 | 2.14 | 0.08 |
| Sub Total (D) | 1775 | 1955 | 1965 | 0 | 10.43 | 434 | 10.14 | 0.29 |
| E. THDC | | | | | | | | |
| Tehri HPS (4*250) | 1000 | 1060 | 1062 | 0 | 7.60 | 316 | 7.50 | 0.10 |
| Koteshwar HPS (4*100) | 400 | 104 | 202 | 90 | 2.46 | 103 | 2.50 | -0.04 |
| Sub Total (E) | 1400 | 1164 | 1264 | 90 | 10.06 | 419 | 10.00 | 0.06 |
| F. BBMB | | | | | | | | |
| Bhakra HPS (3*108+2*126+6*157) | 1514 | 513 | 1017 | 363 | 13.07 | 545 | 12.30 | 0.77 |
| Dehar HPS (6*165) | 990 | 140 | 165 | 140 | 3.38 | 141 | 3.36 | 0.02 |
| Pong HPS (6*66) | 396 | 166 | 324 | 66 | 4.01 | 167 | 3.97 | 0.03 |
| Sub Total (F) | 2900 | 818 | 1506 | 569 | 20.46 | 852 | 19.64 | 0.82 |
| G. IPP(s)/JV(s) | | | | | | | | |
| ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 62 | 0 | 0.57 | 24 | 0.57 | 0.00 |
| KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 770 | 0 | 4.29 | 179 | 4.20 | 0.09 |
| Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.26 | 11 | 0.26 | 0.00 |
| Shree Cement TPS (2*150) | 300 | 0 | 148 | 95 | 3.15 | 131 | 3.16 | -0.01 |
| Budhil HPS(IPP) | 70 | 0 | 36 | 0 | 0.15 | 6 | 0.14 | 0.00 |
| Sub Total (G) | 1662 | 0 | 1016 | 95 | 8.41 | 350 | 8.32 | 0.08 |
| H. Total Regional Entities (A-G) | 24419 | 16828 | 17936 | 9872 | 299.43 | 12476 | 290.18 | 9.25 |

| 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 | 350 | 160 | 5.13 | 214 |
| | Guru Nanak Dev TPS(Bhatinda) (4*110) | 440 | 90 | 90 | 2.29 | 95 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 407 | 363 | 9.44 | 393 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 845 | 705 | 19.03 | 793 |
| | Talwandi Saboo (1*660) | 660 | 614 | 381 | 12.29 | 512 |
| | Thermal (Total) | 4680 | 2306 | 1699 | 48.19 | 2008 |
| | Total Hydro | 1148 | 290 | 238 | 8.26 | 344 |
| | Total Punjab | 5828 | 2596 | 1937 | 56.46 | 2352 |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 649 | 434 | 14.02 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 264 | 238 | 6.12 | 255 |
| Faridabad GPS (NTPC) | | 432 | 0 | 0 | 0.00 | 0 |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 1148 | 749 | 24.53 | 1022 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 610 | 744 | 14.90 | 621 |
| Thermal (Total) | | 4944 | 2671 | 2165 | 59.56 | 2482 |
| Total Hydro | | 62 | 14 | 18 | 0.40 | 17 |
| Total Haryana | | 5006 | 2685 | 2183 | 59.96 | 2498 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 997 | 929 | 23.48 |
| | suratgarh TPS (6*250) | 1500 | 1105 | 783 | 23.50 | 979 |
| | Chabra TPS (3*250) | 750 | 633 | 646 | 14.84 | 618 |
| | Dholpur GPS (3*110) | 330 | 119 | 131 | 3.11 | 129 |
| | Ramgarh GPS (1*3 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 0 | 203 | 1.95 | 81 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 185 | 162 | 4.05 | 169 |
| | Barsingar (NLC) (2*125) | 250 | 92 | 92 | 2.13 | 89 |
| | Giral LTPS (2*125) | 250 | 0 | 82 | 0.83 | 35 |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 735 | 707 | 16.65 | 694 |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 |
| | Kalisindh Thermal(1*600) | 600 | 280 | 0 | 7.47 | 311 |
| | Kawai(Adani) (2*660) | 1320 | 1166 | 1128 | 27.82 | 1159 |
| | Thermal (Total) | 8026 | 5312 | 4863 | 126 | 5243 |
| | Total Hydro | 550 | 155 | 153 | 4.35 | 181 |
| | Wind power | 2798 | 232 | 177 | 2.62 | 109 |
| | Biomass | 99 | 10 | 10 | 0.23 | 10 |
| | Solar | 730 | 1 | 0 | 0.13 | 5 |
| | Renewable/Others (Total) | 3627 | 243 | 187 | 2.98 | 124 |
| | Total Rajasthan | 12203 | 5710 | 5203 | 133.17 | 5549 |
| UP | Anpara TPS (3*210+2*500) | 1630 | 943 | 941 | 22.20 | 925 |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 297 | 305 | 7.20 | 300 |
| | Paricha TPS (2*110+2*220+2*250) | 1140 | 786 | 795 | 19.00 | 792 |
| | Panki TPS (2*105) | 210 | 144 | 153 | 3.50 | 146 |
| | Harduaganj TPS (1*60+1*105+2*250) | 665 | 420 | 492 | 11.10 | 463 |
| | Tanda TPS (NTPC) (4*110) | 440 | 280 | 280 | 7.00 | 292 |
| | Roza TPS (IPP) (4*300) | 1200 | 1040 | 1019 | 24.80 | 1033 |
| | Anpara-C (IPP) (2*600) | 1200 | 1008 | 1004 | 24.10 | 1004 |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 320 | 280 | 6.80 | 283 |
| | Thermal (Total) | 8129 | 5238 | 5269 | 125.70 | 5238 |
| | Vishnuparyag HPS (IPP) | 400 | 133 | 98 | 2.30 | 96 |
| | Other Hydro | 527 | 37 | 27 | 0.80 | 33 |
| | Cogeneration | 981 | 200 | 200 | 0.48 | 20 |
| | Total UP | 10037 | 5608 | 5594 | 129.28 | 5291 |
| | Uttarakhand | Total Hydro | 1398 | 453 | 213 | 6.93 |
| Total Uttarakhand | | 1398 | 453 | 213 | 6.93 | 289 |
| Delhi | Raighat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 80 | 80 | 1.88 | 78 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 149 | 154 | 3.64 | 152 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (6*250) | 1370 | 316 | 272 | 7.15 | 298 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 218 | 213 | 5.55 | 231 |
| | Thermal (Total) | 2917 | 763 | 719 | 18.22 | 759 |
| Total Delhi | 2917 | 763 | 719 | 18.22 | 759 | |
| HP | Baspa HPS (IPP) (2*150) | 300 | 30 | 0 | 1.30 | 54 |
| | Malana HPS (IPP) (2*43) | 86 | 60 | 0 | 0.25 | 10 |
| | Other Hydro | 728 | 143 | 120 | 3.74 | 156 |
| | Total HP | 1114 | 233 | 120 | 5.29 | 220 |
| J & K | Baqilhar HPS (IPP) (3*150) | 450 | 296 | 142 | 4.43 | 184 |
| | Other Hydro/IPP | 436 | 97 | 70 | 1.86 | 78 |
| | Gas/Diesel/Others | 209 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1094 | 393 | 212 | 6.29 | 262 |
| Total State Control Area Generation | | 39597 | 18441 | 16181 | 415.58 | 17220 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 3167.33 | 4265.74 | 112.04 | 4668 |
| Total Regional Availability(Gross) | | 64017 | 39544 | 30319 | 827.04 | 34364 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|-------------|-------------|--------------|-------------|
| Regional Entities Hydro | 11432 | 7538 | 957 | 63.89 | 2662 |
| State Control Area Hydro | 5684 | 1575 | 981 | 34.61 | 1346 |
| Total Regional Hydro | 17116 | 9113 | 1938 | 98.50 | 4008 |

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 | 100 | 50 | 300 | 0 | 3.24 | 0.00 | 3.24 |
| Gwalior-Agra (D/C) | 900 | 1343 | 181 | 0 | 35.66 | 0.00 | 35.66 |
| Zerda-Kankroli | -126 | -149 | 10 | 259 | 0.00 | 2.36 | -2.36 |
| Zerda-Bhinmal | -37 | -67 | 168 | 209 | 0.22 | 0.00 | 0.22 |
| Malanpur-Auraiya | -123 | -126 | 0 | 139 | 0.00 | 2.82 | -2.82 |
| Badod-Kota/Morak | -87 | -90 | 0 | 118 | 0.00 | 3.82 | -3.82 |
| Mundra-Mohindergarh(HVDC) | 1250 | 1501 | 1803 | 0 | 33.75 | 0.00 | 33.75 |
| Vindhychal - Rihand | 478 | 361 | 508 | 0 | 10.91 | 0.00 | 10.91 |
| Sub Total WR | 2355 | 2823 | | | 83.77 | 9.00 | 74.77 |
| Pusauli Bypass | 400 | 400 | 400 | 0 | 9.70 | 0.00 | 9.70 |
| MZP- GKP (D/C) | 84 | 128 | 290 | 0 | 3.05 | 0.00 | 3.05 |
| Patna-Balia(D/C) | 490 | 636 | 811 | 0 | 15.99 | 0.00 | 15.99 |
| B'Sharif-Balia (D/C) | -110 | 45 | 172 | 110 | 0.93 | 0.00 | 0.93 |
| Pusauli-Balia | -162 | -109 | 0 | 162 | 0.00 | 2.77 | -2.77 |
| Gaya-Fatehpur (765 Kv) | 105 | 223 | 454 | 0 | 6.75 | 0.00 | 6.75 |
| Pusauli-Sahupuri | 95 | 127 | 137 | 0 | 2.55 | 0.00 | 2.55 |
| K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Son Ngr-Rihand | -27 | -16 | 0 | 38 | 0.00 | 0.64 | -0.64 |
| Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sasaram - Fatehpur(765 KV) | -63 | 8 | 223 | 63 | 1.70 | 0.00 | 1.70 |
| Sub Total ER | 812 | 1443 | | | 40.67 | 3.41 | 37.26 |
| Total IR Exch | 3167 | 4266 | | | 124.44 | 12.41 | 112.04 |

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 |
| 25.15 | 0.69 | 25.84 | 5.18 | -12.07 | 9.25 | 13.06 | 4.97 | -4.97 |

| 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 |
| 45.24 | 61.57 | 106.81 | 37.26 | 74.77 | 112.04 | -7.98 | 13.20 | 5.22 |

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 | 0.65 | 8.62 | 26.17 | 60.01 | 52.96 | 14.64 | 5.91 | 0.34 | NA |

| Frequency (Hz) | | | | Average Frequency (Hz) | Frequency Variation Index | Std. Dev. (Hz) | Frequency in 15 Min Block | |
|----------------|------|---------|-------|------------------------|---------------------------|----------------|---------------------------|----------|
| Maximum | | Minimum | | | | | MAX (Hz) | MIN (Hz) |
| Freq | Time | Freq | Time | | | | | |
| 50.30 | 0.00 | 49.59 | 12.11 | 49.96 | 0.12 | 0.10 | 50.18 | 49.84 |

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 | 00:00 | 400 | 09:21 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 410 | 02:05 | 396 | 06:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly | 400 | 421 | 20:40 | 398 | 12:11 | 0.0 | 0.0 | 0.9 | 0.0 |
| Kanpur | 400 | 419 | 20:40 | 399 | 10:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 419 | 01:54 | 400 | 12:08 | 0.4 | 0.4 | 0.0 | 0.0 |
| Ballabgarh | 400 | 427 | 01:56 | 405 | 11:34 | 0.0 | 0.0 | 37.8 | 0.0 |
| Bawana | 400 | 426 | 23:56 | 406 | 10:43 | 0.0 | 0.0 | 35.6 | 0.0 |
| Bassi | 400 | 426 | 20:39 | 394 | 10:17 | 0.0 | 0.0 | 9.3 | 0.0 |
| Hissar | 400 | 415 | 20:40 | 394 | 10:44 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 424 | 02:00 | 402 | 10:45 | 0.0 | 0.0 | 18.0 | 0.0 |
| Abdullapur | 400 | 425 | 23:56 | 396 | 17:38 | 0.0 | 0.0 | 28.0 | 0.0 |
| Nalagarh | 400 | 425 | 05:03 | 396 | 17:38 | 0.0 | 0.0 | 14.9 | 0.0 |
| Kishenpur | 400 | 426 | 02:57 | 395 | 18:14 | 0.0 | 0.0 | 15.6 | 0.0 |
| Wagoora | 400 | 410 | 02:51 | 361 | 18:15 | 19.7 | 58.7 | 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 | 776 | 01:57 | 738 | 10:40 | 0.0 | 3.6 | 0.0 | 0.0 |
| Balia | 765 | 768 | 05:02 | 743 | 10:48 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 802 | 02:01 | 764 | 10:45 | 0.0 | 0.0 | 1.9 | 0.0 |
| Agra | 765 | 794 | 20:40 | 753 | 10:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 806 | 02:00 | 0 | 17:47 | 26.1 | 26.1 | 15.4 | 0.0 |
| Unnao | 765 | 759 | 02:02 | 728 | 10:44 | 0.0 | 33.7 | 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 | 503.41 | 1245.57 | 508.23 | 1455.60 | 121.31 | 374.35 |
| Pong | 426.72 | 384.05 | 410.48 | 514.41 | 417.25 | 768.49 | 65.24 | 261.05 |
| Tehri | 829.79 | 740.04 | 818.60 | 974.26 | 820.70 | 1017.05 | 63.15 | 169.00 |
| Koteshwar | 612.50 | 598.50 | 610.20 | 4.69 | 609.90 | 4.44 | 169.00 | 163.00 |
| Chamera-I | 760.00 | 748.75 | 759.58 | 0.00 | 0.00 | 0.00 | 48.08 | 45.44 |
| Rihand | 268.22 | 252.98 | 853.30 | 309.60 | 858.30 | 395.60 | 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 | 509.32 | 2.24 | 515.02 | 2.54 | 57.66 | 109.86 |

* 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 | -381 | 9 | 0 | -355 | 11 | 0 | -8.73 | 0.60 | -8.13 |
| Delhi | -926 | -25 | -15 | -595 | 435 | -15 | -14.93 | 4.33 | -10.60 |
| Haryana | -777 | 193 | 0 | -761 | 131 | 0 | -19.77 | 3.70 | -16.07 |
| HP | 423 | -76 | 0 | 399 | -51 | 0 | 9.51 | -2.76 | 6.75 |
| J&K | 430 | 74 | 0 | 335 | 83 | 0 | 7.44 | 2.17 | 9.61 |
| CHD | -30 | 0 | 0 | 0 | 0 | 0 | -0.24 | 0.02 | -0.22 |
| Rajasthan | 497 | 605 | 2 | 497 | 8 | 2 | 11.92 | 10.03 | 21.96 |
| UP | 75 | 0 | 0 | 139 | 0 | 0 | 2.58 | 0.00 | 2.58 |
| Uttarakhand | 245 | 187 | 0 | 245 | 317 | 0 | 5.87 | 7.13 | 13.00 |
| Total | -444 | 966 | -13 | -97 | 935 | -13 | -6.35 | 25.23 | 18.88 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -355 | -381 | 206 | 0 | 0 | 0 |
| Delhi | -485 | -926 | 579 | -66 | -15 | -15 |
| Haryana | -761 | -980 | 195 | 117 | 0 | 0 |
| HP | 423 | 379 | 98 | -654 | 0 | 0 |
| J&K | 430 | 237 | 137 | 34 | 0 | 0 |
| CHD | 0 | -30 | 15 | -10 | 0 | 0 |
| Rajasthan | 497 | 497 | 661 | -127 | 2 | 2 |
| UP | 150 | 75 | 0 | 0 | 0 | 0 |
| Uttarakhand | 245 | 245 | 409 | 187 | 0 | 0 |

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 28.11.2014 :**
Normal**XIV. Synchronisation of new generating units :**
0.00**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 :**