

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त महायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.12.2014
Date of Reporting : 22.12.2014

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 |
| 37206 | 3288 | 40494 | 50.04 | 28992 | 623 | 29615 | 50.04 | 786.3 | 51.33 |

* 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 | Actual Drawal | UI | Consumption | Shortages † |
|--------------|--|--------------|---------------------|---------------|-----------------|---------------|-------------|---------------|--------------|
| | Thermal | Hydro | Renewable/others \$ | Total | (Net MU) | (Net MU) | (Net MU) | (Net MU) | (MU) |
| Punjab | 47.26 | 6.70 | | 53.95 | 39.06 | 38.43 | -0.64 | 92.38 | 0.00 |
| Haryana | 52.41 | 0.46 | | 52.87 | 54.85 | 54.36 | -0.49 | 107.23 | 0.00 |
| Rajasthan | 106.56 | 3.56 | 1.60 | 111.72 | 85.93 | 86.25 | 0.31 | 197.97 | 0.00 |
| Delhi | 18.65 | | | 18.65 | 43.79 | 44.40 | 0.61 | 63.05 | 0.00 |
| UP | 142.40 | 4.30 | | 146.70 | 79.23 | 75.59 | -3.64 | 222.29 | 43.26 |
| Uttarakhand | | 6.93 | | 6.93 | 25.29 | 26.91 | 1.62 | 33.84 | 0.65 |
| HP | | 4.16 | | 4.16 | 19.01 | 19.56 | 0.55 | 23.71 | 0.00 |
| J & K | | 5.31 | 0.00 | 5.31 | 31.81 | 36.76 | 4.94 | 42.07 | 7.42 |
| Chandigarh | | | | 0.00 | 3.21 | 3.73 | 0.27 | 3.73 | 0.00 |
| Total | 367.28 | 31.41 | 1.60 | 400.29 | 382.18 | 385.96 | 3.53 | 786.25 | 51.33 |

† 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 | 4442 | 0 | -309 | -388 | 3162 | 0 | 26 | -341 | 5252 |
| Haryana | 5596 | 0 | -145 | -936 | 3973 | 0 | 87 | -901 | 5596 |
| Rajasthan | 8828 | 0 | -141 | 939 | 7722 | 0 | 53 | 1405 | 9344 |
| Delhi | 3167 | 0 | -129 | -165 | 1669 | 0 | 151 | -939 | 3549 |
| UP | 10103 | 2940 | -327 | 65 | 8779 | 330 | -197 | 68 | 10103 |
| Uttarakhand | 1757 | 0 | 36 | 712 | 1146 | 0 | 64 | 502 | 1763 |
| HP | 1198 | 10 | -60 | 416 | 789 | 0 | 49 | 416 | 1270 |
| J&K | 1916 | 338 | 217 | 547 | 1661 | 293 | 190 | 605 | 1916 |
| Chandigarh | 199 | 0 | 13 | 0 | 92 | 0 | 9 | -31 | 211 |
| Total | 37206 | 3288 | -845 | 1190 | 28992 | 623 | 431 | 785 | 37206 |

\$ STOA figures are at sellers boundary & PX figures are at regional boundary.

figures may not be at simultaneous hour.

Diversity is 1.05

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 | 1442 | 1579 | 1573 | 37.35 | 1556 | 34.62 | 2.73 |
| Rihand I STPS (2*500) | 1000 | 386 | 415 | 380 | 9.89 | 412 | 9.01 | 0.88 |
| Rihand II STPS (2*500) | 1000 | 970 | 1039 | 887 | 23.89 | 996 | 22.39 | 1.50 |
| Rihand III STPS (2*500) | 1000 | 970 | 1025 | 921 | 23.36 | 973 | 22.16 | 1.20 |
| Dadri I STPS (4*210) | 840 | 615 | 627 | 460 | 13.33 | 556 | 12.67 | 0.67 |
| Dadri II STPS (2*490) | 980 | 980 | 950 | 712 | 9.84 | 410 | 19.56 | -9.72 |
| Unchahar I TPS (2*210) | 420 | 406 | 409 | 344 | 9.37 | 390 | 8.59 | 0.58 |
| Unchahar II TPS (2*210) | 420 | 406 | 441 | 303 | 9.12 | 380 | 8.43 | 0.69 |
| Unchahar III TPS (1*220) | 210 | 202 | 217 | 161 | 4.56 | 190 | 4.23 | 0.34 |
| I-STPP (Jhajjar) (3*500) | 1500 | 1013 | 898 | 943 | 20.70 | 863 | 21.69 | -0.99 |
| Dadri GPS (4*130.19+2*154.51) | 830 | 835 | 321 | 306 | 8.80 | 366 | 8.79 | 0.00 |
| Anta GPS (3*88.71+1*153.2) | 419 | 427 | 252 | 221 | 5.98 | 249 | 6.00 | -0.02 |
| Auraiya GPS (4*111.19+2*109.30) | 663 | 664 | 149 | 158 | 3.55 | 148 | 3.47 | 0.08 |
| Dadri Solar | 5 | 1 | 0 | 0 | 0.01 | 0 | 0.02 | -0.02 |
| Unchahar Solar | 10 | 3 | 0 | 0 | 0.02 | 1 | 0.07 | -0.05 |
| Sub Total (A) | 11297 | 9319 | 8322 | 7369 | 180 | 7490 | 182 | -2 |
| B. NPC | | | | | | | | |
| NAPS (2*220) | 440 | 297 | 345 | 345 | 7.37 | 307 | 7.13 | 0.24 |
| RAPS-B (2*220) | 440 | 414 | 458 | 460 | 9.97 | 415 | 9.94 | 0.03 |
| RAPS-C (2*220) | 440 | 220 | 238 | 239 | 5.10 | 212 | 5.28 | -0.18 |
| Sub Total (B) | 1320 | 931 | 1041 | 1044 | 22.44 | 935 | 22.34 | 0.10 |
| C. NHPC | | | | | | | | |
| Chamera I HPS (3*180) | 540 | 430 | 193 | 0 | 2.02 | 84 | 1.90 | 0.12 |
| Chamera III HPS (3*100) | 300 | 300 | 201 | 0 | 1.13 | 47 | 1.10 | 0.03 |
| Chamera III HPS (3*77) | 231 | 154 | 152 | 0 | 0.69 | 29 | 0.65 | 0.04 |
| Bairasuli HPS(3*60) | 180 | 179 | 138 | 0 | 0.48 | 20 | 0.43 | 0.05 |
| Salal-HPS (6*115) | 690 | 104 | 120 | 120 | 2.63 | 109 | 2.50 | 0.13 |
| Tanakpur-HPS (3*40) | 94 | 29 | 50 | 27 | 0.78 | 32 | 0.69 | 0.08 |
| Uri-I HPS (4*120) | 480 | 107 | 146 | 65 | 2.75 | 115 | 2.56 | 0.18 |
| Uri-II HPS (4*60) | 240 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Dhauliganga-HPS (4*70) | 280 | 139 | 140 | 0 | 0.99 | 41 | 0.90 | 0.09 |
| Dulhasti-HPS (3*130) | 390 | 387 | 391 | 0 | 2.90 | 121 | 2.80 | 0.10 |
| Sewa-II HPS (3*40) | 120 | 119 | 122 | 0 | 0.36 | 15 | 0.36 | 0.00 |
| Parbati 3 (4*130) | 520 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Sub Total (C) | 4065 | 1948 | 1653 | 212 | 15 | 614 | 14 | 1 |
| D. SJVNL | | | | | | | | |
| NJPC (6*250) | 1500 | 1605 | 1601 | 0 | 6.54 | 272 | 6.50 | 0.04 |
| Rampur HEP (4*68.67) | 275 | 420 | 345 | 0 | 1.78 | 74 | 1.82 | -0.04 |
| Sub Total (D) | 1775 | 2025 | 1946 | 0 | 8.31 | 346 | 8.32 | 0.00 |
| E. THDC | | | | | | | | |
| Tehri HPS (4*250) | 1000 | 1060 | 1010 | 0 | 6.61 | 275 | 6.50 | 0.11 |
| Koteshwar HPS (4*100) | 400 | 104 | 201 | 91 | 2.53 | 105 | 2.50 | 0.03 |
| Sub Total (E) | 1400 | 1164 | 1211 | 91 | 9.13 | 381 | 9.00 | 0.13 |
| F. BBMB | | | | | | | | |
| Bhakra HPS (3*108+2*126+6*157) | 1514 | 567 | 1052 | 398 | 13.73 | 572 | 13.61 | 0.12 |
| Dehar HPS (6*165) | 990 | 145 | 330 | 0 | 3.39 | 141 | 3.49 | -0.10 |
| Pong HPS (6*66) | 396 | 233 | 384 | 60 | 5.57 | 232 | 5.59 | -0.02 |
| Sub Total (F) | 2900 | 945 | 1766 | 458 | 22.69 | 945 | 22.68 | 0.01 |
| G. IPP(s)/JV(s) | | | | | | | | |
| ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 0 | 0 | 0.45 | 19 | 0.43 | 0.01 |
| KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 600 | 0 | 3.37 | 140 | 3.47 | -0.10 |
| Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.16 | 7 | 0.16 | 0.00 |
| Shree Cement TPS (2*150) | 300 | 0 | 277 | 207 | 6.08 | 253 | 6.07 | 0.01 |
| Budhil HPS(IPP) | 70 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Sub Total (G) | 1662 | 0 | 877 | 207 | 10.05 | 419 | 10.14 | -0.09 |
| H. Total Regional Entities (A-G) | 24419 | 16331 | 16816 | 9381 | 267.11 | 11130 | 268.27 | -1.15 |

UI [OG:(+ve), UG: (-ve)]

| 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 | 680 | 680 | 16.08 | 670 |
| | Guru Nanak Dev TPS(Bhatinda) (4*110) | 440 | 115 | 115 | 2.47 | 103 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 338 | 336 | 8.41 | 351 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 470 | 363 | 12.20 | 508 |
| | Talwandi Saboo (1*660) | 660 | 337 | 361 | 8.09 | 337 |
| | Thermal (Total) | 4680 | 1940 | 1855 | 47.26 | 1969 |
| | Total Hydro | 1148 | 379 | 207 | 6.70 | 279 |
| | Total Punjab | 5828 | 2319 | 2062 | 53.95 | 2248 |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 792 | 742 | 17.89 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 277 | 247 | 6.28 | 262 |
| Faridabad GPS (NTPC) | | 432 | 211 | 60 | 3.69 | 154 |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 592 | 382 | 11.92 | 497 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 607 | 372 | 12.64 | 527 |
| Thermal (Total) | | 4944 | 2479 | 1803 | 52.41 | 2184 |
| Total Hydro | | 62 | 17 | 21 | 0.46 | 19 |
| Total Haryana | | 5006 | 2496 | 1824 | 52.87 | 2203 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 836 | 790 | 19.26 |
| | suratgarh TPS (6*250) | 1500 | 1323 | 1176 | 28.79 | 1200 |
| | Chabra TPS (3*250) | 750 | 631 | 614 | 14.74 | 614 |
| | Dholpur GPS (3*110) | 330 | 0 | 0 | 0.00 | 0 |
| | Ramgarh GPS (1*3 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 213 | 116 | 4.34 | 181 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 152 | 152 | 4.14 | 173 |
| | Barsingar (NLC) (2*125) | 250 | 183 | 183 | 4.27 | 178 |
| | Giral LTPS (2*125) | 250 | 77 | 77 | 1.38 | 57 |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 734 | 730 | 17.09 | 712 |
| | 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 | 548 | 489 | 12.55 | 523 |
| | Thermal (Total) | 8026 | 4697 | 4327 | 107 | 4440 |
| | Total Hydro | 550 | 151 | 177 | 3.56 | 148 |
| | Wind power | 2798 | 77 | 85 | 0.28 | 12 |
| | Biomass | 99 | 41 | 41 | 0.99 | 41 |
| | Solar | 730 | 3 | 0 | 0.33 | 14 |
| | Renewable/Others (Total) | 3627 | 121 | 126 | 1.60 | 67 |
| | Total Rajasthan | 12203 | 4969 | 4630 | 111.72 | 4655 |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1338 | 1329 | 31.30 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 347 | 339 | 9.30 | 388 |
| Paricha TPS (2*110+2*220+2*250) | | 1140 | 707 | 631 | 18.30 | 763 |
| Panki TPS (2*105) | | 210 | 72 | 63 | 1.50 | 63 |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 460 | 451 | 10.70 | 446 |
| Tanda TPS (NTPC) (4*110) | | 440 | 289 | 275 | 6.70 | 279 |
| Roza TPS (IPP) (4*300) | | 1200 | 756 | 784 | 21.70 | 904 |
| Anpara-C (IPP) (2*600) | | 1200 | 1019 | 1008 | 23.70 | 988 |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 0 | 0 | 0.00 | 0 |
| Thermal (Total) | | 8129 | 4988 | 4880 | 123.20 | 5133 |
| Vishnuparyag HPS (IPP) | | 400 | 83 | 84 | 2.00 | 83 |
| Other Hydro | | 527 | 127 | 59 | 2.30 | 96 |
| Cogeneration | | 981 | 800 | 800 | 19.20 | 800 |
| Total UP | | 10037 | 5998 | 5823 | 146.70 | 6029 |
| Uttarakhand | | Total Hydro | 1398 | 435 | 208 | 6.93 |
| | Total Uttarakhand | 1398 | 435 | 208 | 6.93 | 289 |
| Delhi | Raighat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 82 | 81 | 1.96 | 82 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 155 | 155 | 3.77 | 157 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (6*250) | 1370 | 332 | 241 | 7.30 | 304 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 218 | 220 | 5.63 | 235 |
| | Thermal (Total) | 2917 | 787 | 697 | 18.65 | 777 |
| | Total Delhi | 2917 | 787 | 697 | 18.65 | 777 |
| HP | Baspa HPS (IPP) (2*150) | 300 | 30 | 0 | 1.02 | 43 |
| | Malana HPS (IPP) (2*43) | 86 | 10 | 0 | 0.02 | 1 |
| | Other Hydro | 728 | 141 | 62 | 3.11 | 130 |
| | Total HP | 1114 | 181 | 62 | 4.16 | 173 |
| J & K | Baqilhar HPS (IPP) (3*150) | 450 | 268 | 120 | 4.01 | 167 |
| | Other Hydro/IPP | 436 | 87 | 39 | 1.31 | 54 |
| | Gas/Diesel/Others | 209 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1094 | 355 | 159 | 5.31 | 221 |
| Total State Control Area Generation | | 39597 | 17540 | 15465 | 400.29 | 16596 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 5530 | 5623.5 | 148.96 | 6207 |
| Total Regional Availability(Gross) | | 64017 | 39886 | 30469 | 816.36 | 33932 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|-------------|-------------|--------------|-------------|
| Regional Entities Hydro | 11432 | 7176 | 761 | 58.84 | 2452 |
| State Control Area Hydro | 5684 | 1645 | 893 | 31.41 | 1226 |
| Total Regional Hydro | 17116 | 8821 | 1654 | 90.26 | 3677 |

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 | 500 | 100 | 500 | 0 | 8.74 | 0.00 | 8.74 |
| Gwalior-Agra (D/C) | 1564 | 2057 | 2244 | 0 | 45.89 | 0.00 | 45.89 |
| Zerda-Kankroli | -100 | -59 | 44 | 184 | 0.00 | 0.80 | -0.80 |
| Zerda-Bhinmal | -9 | 40 | 181 | 166 | 1.37 | 0.00 | 1.37 |
| Malanpur-Auraiya | -10 | -10 | 0 | 20 | 0.00 | 0.22 | -0.22 |
| Badod-Kota/Morak | 10 | -42 | 57 | 81 | 0.00 | 0.42 | -0.42 |
| Mundra-Mohindergarh(HVDC) | 1997 | 1998 | 2204 | 0 | 48.99 | 0.00 | 48.99 |
| Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sub Total WR | 3952 | 4084 | | | 104.98 | 1.44 | 103.54 |
| Pusauli Bypass | 425 | 425 | 425 | 0 | 10.41 | 0.00 | 10.41 |
| MZP- GKP (D/C) | 158 | 220 | 460 | 0 | 5.12 | 0.00 | 5.12 |
| Patna-Balia(D/C) | 765 | 714 | 908 | 0 | 19.45 | 0.00 | 19.45 |
| B'Sharif-Balia (D/C) | 34 | 37 | 278 | 60 | 1.64 | 0.00 | 1.64 |
| Pusauli-Balia | 0 | -185 | 0 | 219 | 0.00 | 1.67 | -1.67 |
| Gaya-Fatehpur (765 Kv) | 195 | 234 | 509 | 0 | 7.58 | 0.00 | 7.58 |
| Pusauli-Sahupuri | 100 | 127 | 157 | 0 | 2.75 | 0.00 | 2.75 |
| K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.48 | -0.48 |
| Son Ngr-Rihand | -26 | -32 | 0 | 44 | 0.00 | 0.77 | -0.77 |
| Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sasaram - Fatehpur(765 KV) | -73 | -1 | 238 | 89 | 1.40 | 0.00 | 1.40 |
| Sub Total ER | 1578 | 1540 | | | 48.34 | 2.92 | 45.42 |
| Total IR Exch | 5530 | 5624 | | | 153.32 | 4.36 | 148.96 |

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 |
| 28.54 | 0.42 | 28.95 | 9.71 | -9.12 | 1.47 | 26.83 | 5.89 | -5.89 |

| 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 |
| 46.02 | 88.89 | 134.91 | 45.42 | 103.54 | 148.96 | -0.60 | 14.65 | 14.05 |

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 | 0.31 | 6.99 | 23.53 | 58.88 | 52.74 | 13.47 | 8.38 | 1.94 | NA |

| Frequency (Hz) | | | | Average Frequency Hz | Frequency Variation Index | Std. Dev. (Hz) | Frequency in 15 Min Block | |
|----------------|-------|---------|------|----------------------|---------------------------|----------------|---------------------------|-------|
| Maximum | | Minimum | | | | | MAX | MIN |
| Freq | Time | Freq | Time | | | | | |
| 50.41 | 23.59 | 49.67 | 8.21 | 49.97 | 0.13 | 0.11 | 50.38 | 49.86 |

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 | 415 | 03:57 | 402 | 12:12 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 415 | 23:57 | 396 | 12:17 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly | 400 | 424 | 03:58 | 402 | 12:17 | 0.0 | 0.0 | 20.9 | 0.0 |
| Kanpur | 400 | 422 | 23:57 | 407 | 16:29 | 0.0 | 0.0 | 1.1 | 0.0 |
| Dadri | 400 | 424 | 04:00 | 404 | 12:17 | 0.1 | 0.1 | 13.7 | 0.0 |
| Ballabgarh | 400 | 431 | 04:00 | 407 | 12:19 | 0.0 | 0.0 | 50.0 | 0.2 |
| Bawana | 400 | 428 | 03:50 | 408 | 12:18 | 0.0 | 0.0 | 46.8 | 0.0 |
| Bassi | 400 | 428 | 20:58 | 391 | 11:19 | 0.0 | 0.0 | 13.2 | 0.0 |
| Hissar | 400 | 419 | 20:57 | 398 | 12:17 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 425 | 20:58 | 404 | 12:16 | 0.0 | 0.0 | 11.3 | 0.0 |
| Abdullapur | 400 | 424 | 20:56 | 396 | 18:37 | 0.0 | 0.0 | 10.2 | 0.0 |
| Nalagarh | 400 | 433 | 20:58 | 414 | 12:18 | 0.0 | 0.0 | 64.3 | 0.7 |
| Kishenpur | 400 | 424 | 00:00 | 396 | 12:18 | 0.0 | 0.0 | 10.3 | 0.0 |
| Wagoora | 400 | 416 | 00:00 | 365 | 18:59 | 17.6 | 53.9 | 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 | 781 | 23:57 | 735 | 12:19 | 0.0 | 4.0 | 0.0 | 0.0 |
| Balia | 765 | 785 | 23:57 | 746 | 12:19 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 803 | 20:58 | 763 | 12:19 | 0.0 | 0.0 | 0.5 | 0.0 |
| Agra | 765 | 793 | 04:00 | 748 | 12:18 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 807 | 20:59 | 763 | 12:19 | 0.0 | 0.0 | 1.9 | 0.0 |
| Unnao | 765 | 774 | 23:57 | 734 | 12:18 | 0.0 | 4.7 | 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 | 499.54 | 1076.64 | 503.94 | 1258.87 | 130.17 | 381.20 |
| Pong | 426.72 | 384.05 | 407.04 | 397.88 | 413.47 | 622.40 | 77.70 | 379.36 |
| Tehri | 829.79 | 740.04 | 813.15 | 863.00 | 815.85 | 920.00 | 47.69 | 151.00 |
| Koteshwar | 612.50 | 598.50 | 609.83 | 4.44 | 610.40 | 4.95 | 151.00 | 168.00 |
| Chamera-I | 760.00 | 748.75 | 758.90 | 0.00 | 0.00 | 0.00 | 44.52 | 54.19 |
| Rihand | 268.22 | 252.98 | 852.90 | 302.90 | 856.70 | 367.60 | 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 | 507.82 | 0.96 | 512.44 | 2.59 | 53.54 | 99.55 |

* 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 | -416 | 76 | 0 | -436 | 48 | 0 | -11.06 | 1.60 | -9.47 |
| Delhi | -898 | -10 | -31 | -543 | 399 | -20 | -14.36 | 4.06 | -10.30 |
| Haryana | -1038 | 137 | 0 | -1022 | 86 | 0 | -25.41 | 2.22 | -23.19 |
| HP | 477 | -61 | 0 | 448 | -32 | 0 | 11.83 | -3.54 | 8.29 |
| J&K | 605 | 0 | 0 | 413 | 135 | 0 | 11.57 | 1.33 | 12.90 |
| CHD | -31 | 0 | 0 | 0 | 0 | 0 | -0.24 | 0.12 | -0.12 |
| Rajasthan | 850 | 552 | 2 | 850 | 87 | 2 | 24.13 | 15.15 | 39.28 |
| UP | 68 | 0 | 0 | 65 | 0 | 0 | 0.63 | 0.00 | 0.63 |
| Uttarakhand | 214 | 240 | 48 | 214 | 472 | 26 | 5.14 | 9.55 | 14.69 |
| Total | -168 | 933 | 20 | -11 | 1194 | 7 | 2.23 | 30.48 | 32.70 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -416 | -511 | 265 | 0 | 0 | 0 |
| Delhi | -339 | -898 | 543 | -153 | -20 | -31 |
| Haryana | -729 | -1188 | 137 | 59 | 0 | 0 |
| HP | 523 | 428 | 10 | -598 | 0 | 0 |
| J&K | 605 | 413 | 147 | -190 | 0 | 0 |
| CHD | 0 | -31 | 20 | 0 | 0 | 0 |
| Rajasthan | 1208 | 850 | 1108 | -198 | 2 | 0 |
| UP | 105 | -51 | 0 | 0 | 0 | 0 |
| Uttarakhand | 214 | 214 | 486 | 206 | 48 | 16 |

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 21.12.2014 :**

Light Fog

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 :**