

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 20.03.2015
Date of Reporting : 21.03.2015

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 |
| 32876 | 1575 | 34451 | 49.81 | 26139 | 617 | 26755 | 50.06 | 719.5 | 29.04 |

* 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 | 34.90 | 6.14 | | 41.04 | 47.23 | 47.38 | 0.15 | 88.42 | 0.00 |
| Haryana | 34.72 | 0.45 | | 35.18 | 63.38 | 62.59 | -0.79 | 97.76 | 0.00 |
| Rajasthan | 89.02 | 0.42 | 5.18 | 94.62 | 60.68 | 63.39 | 2.72 | 158.01 | 0.00 |
| Delhi | 15.04 | | | 15.04 | 40.94 | 44.82 | 3.89 | 59.87 | 0.17 |
| UP | 125.20 | 4.80 | | 130.00 | 85.46 | 84.25 | -1.21 | 214.25 | 27.70 |
| Uttarakhand | | 9.54 | | 9.54 | 21.57 | 23.77 | 2.21 | 33.31 | 1.16 |
| HP | | 8.39 | | 8.39 | 14.31 | 16.19 | 1.89 | 24.58 | 0.01 |
| J & K | | 10.59 | 0.00 | 10.59 | 30.43 | 29.33 | -1.10 | 39.92 | 0.00 |
| Chandigarh | | | | 0.00 | 3.26 | 3.37 | 0.27 | 3.37 | 0.00 |
| Total | 298.89 | 40.33 | 5.18 | 344.40 | 367.24 | 375.09 | 8.01 | 719.50 | 29.04 |

* 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 | 4248 | 0 | -20 | -277 | 2949 | 0 | 14 | -280 | 4408 |
| Haryana | 5070 | 0 | -348 | 183 | 2767 | 0 | 48 | -245 | 5458 |
| Rajasthan | 6884 | 0 | 30 | 581 | 6352 | 0 | 38 | 752 | 7423 |
| Delhi | 2736 | 0 | -65 | -416 | 1578 | 0 | 170 | -827 | 3288 |
| UP | 9304 | 1185 | -132 | 153 | 8952 | 355 | -88 | 125 | 10125 |
| Uttarakhand | 1643 | 75 | 125 | 456 | 1218 | 0 | 177 | 273 | 1668 |
| HP | 1027 | 0 | 42 | -229 | 755 | 0 | 43 | 36 | 1365 |
| J&K | 1785 | 315 | -62 | 303 | 1482 | 262 | 17 | 239 | 1816 |
| Chandigarh | 179 | 0 | -4 | 0 | 85 | 0 | -5 | -30 | 181 |
| Total | 32876 | 1575 | -434 | 754 | 26139 | 617 | 414 | 40 | 35305 |

* 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 :

| A. NTPC | 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 |
| | Singrauli STPS (5*200+2*500) | 2000 | 1646 | 2037 | 1575 | 42.37 | 1766 | 38.95 | 3.42 |
| | Rihand I STPS (2*500) | 1000 | 860 | 942 | 912 | 22.30 | 929 | 20.39 | 1.91 |
| | Rihand II STPS (2*500) | 1000 | 470 | 521 | 409 | 12.00 | 500 | 10.97 | 1.03 |
| | Rihand III STPS (2*500) | 1000 | 973 | 1007 | 905 | 23.90 | 996 | 22.70 | 1.20 |
| | Dadri I STPS (4*210) | 840 | 815 | 744 | 628 | 17.87 | 745 | 17.20 | 0.67 |
| | Dadri II STPS (2*490) | 980 | 480 | 394 | 382 | 10.38 | 433 | 10.20 | 0.18 |
| | Unchahar I TPS (2*210) | 420 | 405 | 438 | 343 | 9.36 | 390 | 9.06 | 0.31 |
| | Unchahar II TPS (2*210) | 420 | 403 | 442 | 284 | 9.41 | 392 | 8.88 | 0.53 |
| | Unchahar III TPS (1*220) | 210 | 201 | 220 | 153 | 4.70 | 196 | 4.40 | 0.30 |
| | ISTPP (Jhajhar) (3*500) | 1500 | 1500 | 958 | 732 | 18.51 | 771 | 19.73 | -1.22 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 836 | 304 | 422 | 9.16 | 382 | 9.17 | -0.01 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 269 | 0 | 0 | 0.45 | 19 | 0.42 | 0.03 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 660 | 159 | 168 | 3.88 | 162 | 3.86 | 0.02 |
| | Dadri Solar | 5 | 1 | 0 | 0 | 0.03 | 1 | 0.03 | -0.01 |
| | Unchahar Solar | 10 | 3 | 0 | 0 | 0.05 | 2 | 0.06 | -0.02 |
| | Singrauli Solar | 15 | 3 | 0 | 0 | 0.06 | 2 | 0 | -0.01 |
| | Sub Total (A) | 11312 | 9523 | 8166 | 6913 | 184 | 7684 | 176 | 8 |
| B. NPC | NAPS (2*220) | 440 | 395 | 425 | 434 | 9.37 | 390 | 7.11 | 2.26 |
| | RAPS- B (2*220) | 440 | 409 | 444 | 451 | 9.72 | 405 | 9.82 | -0.10 |
| | RAPS- C (2*220) | 440 | 410 | 437 | 453 | 10.54 | 439 | 9.84 | 0.70 |
| | Sub Total (B) | 1320 | 1214 | 1306 | 1338 | 29.63 | 1234 | 26.77 | 2.86 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 534 | 552 | 0 | 6.28 | 262 | 6.05 | 0.22 |
| | Chamera II HPS (3*100) | 300 | 300 | 303 | 0 | 2.85 | 119 | 2.78 | 0.07 |
| | Chamera III HPS (3*77) | 231 | 231 | 230 | 0 | 1.57 | 65 | 1.50 | 0.07 |
| | Bairasuli HPS(3*60) | 180 | 179 | 184 | 122 | 3.21 | 134 | 3.11 | 0.10 |
| | Salal-HPS (6*115) | 690 | 430 | 455 | 456 | 10.60 | 442 | 10.32 | 0.29 |
| | Tanakpur-HPS (3*40) | 94 | 29 | 26 | 32 | 0.78 | 32 | 0.68 | 0.10 |
| | Uri-I HPS (4*120) | 480 | 470 | 466 | 476 | 11.54 | 481 | 11.28 | 0.26 |
| | Uri-II HPS (4*60) | 240 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Dhauliganga-HPS (4*70) | 280 | 210 | 148 | 0 | 1.13 | 47 | 1.05 | 0.08 |
| | Dulhasti-HPS (3*130) | 390 | 387 | 406 | 14 | 2.72 | 113 | 2.50 | 0.22 |
| | Sewa-II HPS (3*40) | 120 | 122 | 130 | 130 | 3.09 | 129 | 2.93 | 0.16 |
| | Parbati 3 (4*130) | 520 | 260 | 262 | 0 | 0.56 | 23 | 0.65 | -0.09 |
| | Sub Total (C) | 4065 | 3152 | 3161 | 1230 | 44 | 1846 | 43 | 1 |
| D. SJVNL | NJPC (6*250) | 1500 | 1605 | 1611 | 0 | 6.99 | 291 | 6.74 | 0.24 |
| | Rampur HEP (4*68.67) | 275 | 367 | 222 | 0 | 1.67 | 70 | 1.73 | -0.06 |
| | Sub Total (D) | 1775 | 1972 | 1833 | 0 | 8.66 | 361 | 8.47 | 0.18 |
| E. THDC | Tehri HPS (4*250) | 1000 | 576 | 584 | 0 | 6.73 | 280 | 6.80 | 0.13 |
| | Koteshwar HPS (4*100) | 400 | 117 | 302 | 90 | 2.89 | 120 | 2.60 | 0.09 |
| | Sub Total (E) | 1400 | 693 | 886 | 90 | 9.62 | 401 | 9.40 | 0.22 |
| F. BBMB | Bhakra HPS (3*108+2*126+6*157) | 1514 | 413 | 806 | 335 | 10.22 | 426 | 9.91 | 0.31 |
| | Dehar HPS (6*165) | 990 | 293 | 495 | 165 | 7.00 | 292 | 7.02 | -0.02 |
| | Pong HPS (6*66) | 396 | 6 | 121 | 0 | 0.13 | 5 | 0.15 | -0.02 |
| | Sub Total (F) | 2900 | 712 | 1422 | 500 | 17.35 | 723 | 17.08 | 0.27 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 77 | 0 | 0.31 | 13 | 0.29 | 0.02 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 724 | 0 | 3.68 | 153 | 3.60 | 0.09 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Shree Cement TPS (2*150) | 300 | 0 | 147 | 86 | 3.03 | 126 | 3.01 | 0.02 |
| | Budhil HPS(IPP) | 70 | 0 | 70 | 0 | 0.22 | 9 | 0.21 | 0.01 |
| | Sub Total (G) | 1662 | 0 | 1018 | 86 | 7.25 | 302 | 7.11 | 0.14 |
| H. Total Regional Entities (A-G) | | 24434 | 17265 | 17792 | 10157 | 301.22 | 12551 | 287.76 | 13.46 |

| 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) (6*210) | 1260 | 160 | 160 | 4.24 | 177 |
| | Guru Nanak Dev TPS(Bhatinda) (4*110) | 440 | 0 | 0 | -0.05 | -2 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 174 | 150 | 4.27 | 178 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 702 | 383 | 14.16 | 590 |
| | Talwandi Saboo (1*660) | 660 | 665 | 339 | 12.27 | 511 |
| | Thermal (Total) | 4680 | 1701 | 1032 | 34.90 | 1454 |
| | Total Hydro | 1148 | 260 | 230 | 6.14 | 256 |
| Total Punjab | 5828 | 1961 | 1262 | 41.04 | 1710 | |
| Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 0 | 0 | 0.00 | 0 |
| | DCRTPP (Yamuna nagar) (2*300) | 600 | 276 | 239 | 6.01 | 250 |
| | Faridabad GPS (NTPC) | 432 | 398 | 280 | 8.39 | 350 |
| | RGTPP (khedar) (IPP) (2*600) | 1200 | 0 | 0 | 0.00 | 0 |
| | Magnum Diesel (IPP) | 25 | 0 | 0 | 0.00 | 0 |
| | Jhajjar(CLP) (2*660) | 1320 | 936 | 748 | 20.33 | 847 |
| | Thermal (Total) | 4944 | 1610 | 1267 | 34.72 | 1447 |
| | Total Hydro | 62 | 13 | 15 | 0.45 | 19 |
| | Total Haryana | 5006 | 1623 | 1282 | 35.18 | 1466 |
| | Rajasthan | kota TPS (2*110+2*195+3*210) | 1240 | 912 | 937 | 22.01 |
| suratgarh TPS (6*250) | | 1500 | 662 | 449 | 15.35 | 640 |
| Chabra TPS (3*250) | | 750 | 644 | 641 | 15.65 | 652 |
| 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 | 211 | 214 | 5.40 | 225 |
| RAPS A (NPC) (1*100+1*200) | | 300 | 170 | 154 | 4.07 | 170 |
| Barsingar (NLC) (2*125) | | 250 | 193 | 193 | 4.49 | 187 |
| Giral LTPS (2*125) | | 250 | 80 | 80 | 1.59 | 66 |
| Rajwest LTPS (IPP) (8*135) | | 1080 | 848 | 845 | 20.46 | 853 |
| 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 | 0 | 0 | 0.00 | 0 |
| Thermal (Total) | | 8026 | 3720 | 3513 | 89 | 3709 |
| Total Hydro | | 550 | 23 | 67 | 0.42 | 18 |
| Wind power | | 2798 | 91 | 352 | 4.56 | 190 |
| Biomass | | 99 | 26 | 26 | 0.62 | 26 |
| Solar | | 730 | 0 | 0 | 0.00 | 0 |
| Renewable/Others (Total) | | 3627 | 117 | 378 | 5.18 | 216 |
| Total Rajasthan | 12203 | 3860 | 3958 | 94.62 | 3943 | |
| UP | Anpara TPS (3*210+2*500) | 1630 | 1220 | 1401 | 31.00 | 1292 |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 465 | 478 | 11.10 | 463 |
| | Paricha TPS (2*110+2*220+2*250) | 1140 | 692 | 671 | 15.60 | 650 |
| | Panki TPS (2*105) | 210 | 140 | 135 | 3.30 | 138 |
| | Harduaganj TPS (1*60+1*105+2*250) | 665 | 228 | 232 | 5.20 | 217 |
| | Tanda TPS (NTPC) (4*110) | 440 | 317 | 380 | 9.00 | 375 |
| | Roza TPS (IPP) (4*300) | 1200 | 203 | 266 | 5.80 | 242 |
| | Anpara-C (IPP) (2*600) | 1200 | 1067 | 1080 | 25.00 | 1042 |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 0 | 0 | 0.00 | 0 |
| | Thermal (Total) | 8129 | 4332 | 4643 | 106.00 | 4417 |
| | Vishnuparyag HPS (IPP) | 400 | 75 | 72 | 1.80 | 75 |
| | Other Hydro | 527 | 162 | 244 | 3.00 | 125 |
| | Cogeneration | 981 | 800 | 800 | 19.20 | 800 |
| | Total UP | 10037 | 5369 | 5759 | 130.00 | 5342 |
| Uttarakhand | Total Hydro | 1398 | 449 | 339 | 9.54 | 397 |
| | Total Uttarakhand | 1398 | 449 | 339 | 9.54 | 397 |
| Delhi | Raighat TPS (2*67.5) | 135 | 44 | 44 | 0.98 | 41 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 81 | 82 | 1.90 | 79 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 154 | 159 | 3.74 | 156 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (6*250) | 1370 | 317 | 271 | 7.22 | 301 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 0 | 0 | 1.20 | 50 |
| | Thermal (Total) | 2917 | 596 | 556 | 15.04 | 627 |
| Total Delhi | 2917 | 596 | 556 | 15.04 | 627 | |
| HP | Baspa HPS (IPP) (2*150) | 300 | 0 | 0 | 1.03 | 43 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.25 | 10 |
| | Other Hydro | 728 | 266 | 236 | 7.11 | 296 |
| | Total HP | 1114 | 266 | 236 | 8.39 | 350 |
| J & K | Baqilhar HPS (IPP) (3*150) | 450 | 440 | 320 | 9.13 | 381 |
| | Other Hydro/IPP | 436 | 99 | 80 | 1.46 | 61 |
| | Gas/Diesel/Others | 209 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1094 | 539 | 400 | 10.59 | 441 |
| Total State Control Area Generation | | 39597 | 14663 | 13792 | 344.40 | 14275 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 4632 | 3683 | 105.12 | 4380 |
| Total Regional Availability(Gross) | | 64032 | 37087 | 27631 | 750.74 | 31206 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|-------------|-------------|---------------|-------------|
| Regional Entities Hydro | 11432 | 8103 | 1820 | 83.93 | 3497 |
| State Control Area Hydro | 5684 | 1712 | 1531 | 40.33 | 1605 |
| Total Regional Hydro | 17116 | 9815 | 3351 | 124.26 | 5102 |

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 | -400 | -150 | 200 | 400 | 0.21 | 4.57 | -4.36 |
| Gwalior-Agra (D/C) | 1298 | 1144 | 1863 | 0 | 33.54 | 0.00 | 33.54 |
| Zerda-Kankroli | -161 | -320 | 0 | 349 | 0.00 | 6.25 | -6.25 |
| Zerda-Bhinmal | -55 | -261 | 0 | 338 | 0.00 | 4.40 | -4.40 |
| Malanpur-Auraiya | -44 | -63 | 0 | 74 | 0.00 | 1.12 | -1.12 |
| Badod-Kota/Morak | -45 | -94 | 0 | 108 | 0.00 | 1.44 | -1.44 |
| Mundra-Mohindergarh(HVDC) | 2498 | 2198 | 2504 | 0 | 54.78 | 0.00 | 54.78 |
| Vindhychal - Rihand | 511 | 504 | 511 | 0 | 12.01 | 0.00 | 12.01 |
| Sub Total WR | 3602 | 2958 | | | 100.55 | 17.77 | 82.78 |
| Pusauli Bypass | -565 | 200 | 200 | 632 | 2.03 | 7.78 | -5.75 |
| MZP- GKP (D/C) | 184 | -34 | 229 | 81 | 2.11 | 0.00 | 2.11 |
| Patna-Balia(D/C) | 698 | 673 | 747 | 0 | 16.03 | 0.00 | 16.03 |
| B'Sharif-Balia (D/C) | 24 | -111 | 82 | 200 | 0.00 | 1.41 | -1.41 |
| Pusauli-Balia | 8 | -91 | 8 | 107 | 0.00 | 0.71 | -0.71 |
| Gaya-Fatehpur (765 Kv) | 293 | 84 | 325 | 0 | 5.74 | 0.00 | 5.74 |
| Pusauli-Sahupuri | 207 | 177 | 207 | 0 | 3.84 | 0.00 | 3.84 |
| K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Son Ngr-Rihand | -30 | -40 | 0 | 46 | 0.00 | 0.83 | -0.83 |
| Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sasaram - Fatehpur(765 KV) | 211 | -133 | 355 | 143 | 3.32 | 0.00 | 3.32 |
| Sub Total ER | 1030 | 725 | | | 33.08 | 10.74 | 22.34 |
| Total IR Exch | 4632 | 3683 | | | 133.62 | 28.51 | 105.12 |

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 |
| 25.77 | 0.11 | 25.88 | 2.14 | -1.63 | 0.05 | 11.77 | 0.56 | -0.56 |

| 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 |
| 28.63 | 67.41 | 96.04 | 22.34 | 82.78 | 105.12 | -6.29 | 15.37 | 9.07 |

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 | 3.01 | 10.30 | 42.22 | 73.27 | 47.30 | 5.23 | 2.07 | 0.19 | 0.00 |

| 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 | | | | | |
| 50.24 | 6.02 | 49.52 | 5.51 | 49.91 | 0.20 | 0.11 | 50.16 | 49.76 |

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 | 411 | 01:49 | 400 | 08:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 415 | 00:00 | 9999 | 00:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly | 400 | 431 | 02:51 | 403 | 19:12 | 0.0 | 0.0 | 24.2 | 0.2 |
| Kanpur | 400 | 428 | 02:54 | 404 | 19:14 | 0.0 | 0.0 | 22.1 | 0.0 |
| Dadri | 400 | 426 | 23:24 | 406 | 19:17 | 53.1 | 53.1 | 11.5 | 0.0 |
| Ballabgarh | 400 | 437 | 01:27 | 410 | 19:19 | 0.0 | 0.0 | 56.1 | 24.2 |
| Bawana | 400 | 433 | 01:10 | 408 | 19:06 | 0.0 | 0.0 | 43.5 | 8.1 |
| Bassi | 400 | 430 | 01:26 | 396 | 07:31 | 0.0 | 0.0 | 32.8 | 0.0 |
| Hissar | 400 | 426 | 01:10 | 396 | 06:41 | 0.0 | 0.0 | 19.6 | 0.0 |
| Moga | 400 | 429 | 01:11 | 405 | 19:11 | 0.0 | 0.0 | 34.5 | 0.0 |
| Abdullapur | 400 | 430 | 01:10 | 396 | 06:39 | 0.0 | 0.0 | 25.7 | 0.0 |
| Nalagarh | 400 | 436 | 21:32 | 396 | 10:56 | 0.0 | 0.0 | 44.8 | 21.9 |
| Kishenpur | 400 | 231 | 02:32 | 216 | 19:23 | 100.0 | 100.0 | 0.0 | 0.0 |
| Wagoora | 400 | 410 | 01:14 | 362 | 08:10 | 1.9 | 13.8 | 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 | 782 | 02:53 | 743 | 06:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 785 | 02:54 | 744 | 19:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 814 | 01:10 | 768 | 06:43 | 0.0 | 0.0 | 30.3 | 0.0 |
| Agra | 765 | 796 | 01:27 | 751 | 06:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 0 | 00:00 | 9999 | 00:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unnao | 765 | 777 | 02:52 | 732 | 19:17 | 0.0 | 12.8 | 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 | 480.76 | 474.82 | 483.65 | 552.50 | 185.76 | 294.49 |
| Pong | 426.72 | 384.05 | 402.11 | 266.33 | 403.16 | 296.79 | 119.16 | 11.41 |
| Tehri | 829.79 | 740.04 | 777.25 | 288.43 | 782.95 | 358.25 | 41.08 | 187.00 |
| Koteshwar | 612.50 | 598.50 | 610.87 | 4.95 | 610.63 | 4.89 | 187.00 | 221.00 |
| Chamera-I | 760.00 | 748.75 | 756.91 | 0.00 | 0.00 | 0.00 | 166.62 | 169.26 |
| 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 | 507.64 | 3.27 | 510.54 | 2.48 | 321.82 | 143.31 |

* 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 | 40 | 0 | -282 | 6 | 0 | -7.01 | 2.09 | -4.92 |
| Delhi | -702 | -84 | -41 | -509 | 133 | -41 | -12.75 | 1.68 | -11.07 |
| Haryana | 23 | -268 | 0 | 36 | 147 | 0 | 0.05 | -3.06 | -3.01 |
| HP | 162 | -126 | 0 | 42 | -271 | 0 | 3.33 | -4.01 | -0.68 |
| J&K | 543 | -304 | 0 | 317 | -14 | 0 | 9.69 | -3.38 | 6.31 |
| CHD | 0 | -30 | 0 | 0 | 0 | 0 | 0.00 | -0.23 | -0.23 |
| Rajasthan | 0 | 750 | 2 | 0 | 579 | 2 | 0.00 | 14.06 | 14.06 |
| UP | 125 | 0 | 0 | 153 | 0 | 0 | 2.72 | 0.00 | 2.72 |
| Uttarakhand | 90 | 150 | 32 | 158 | 253 | 45 | 3.45 | 7.16 | 10.61 |
| Total | -80 | 127 | -6 | -85 | 832 | 7 | -0.52 | 14.31 | 13.79 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -276 | -324 | 307 | 2 | 0 | 0 |
| Delhi | -447 | -702 | 586 | -110 | -41 | -41 |
| Haryana | 36 | -25 | 183 | -448 | 0 | 0 |
| HP | 168 | 42 | -26 | -626 | 0 | 0 |
| J&K | 543 | 317 | 0 | -318 | 0 | 0 |
| CHD | 0 | 0 | 0 | -41 | 0 | 0 |
| Rajasthan | 0 | 0 | 758 | 377 | 2 | 2 |
| UP | 176 | 51 | 0 | 0 | 0 | 0 |
| Uttarakhand | 158 | 90 | 386 | 141 | 49 | 25 |

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 20.03.2015 :**
Cloudy/Rainfall in Northern region.**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 :**