

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त महायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.05.2015
Date of Reporting : 29.05.2015

I. Regional Availability/Demand:

| Evening Peak (20:00 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 |
| 42184 | 2862 | 45046 | 49.92 | 40549 | 2329 | 42878 | 50.09 | 986.3 | 53.87 |

* 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 | 51.00 | 18.37 | | 69.37 | 84.99 | 84.27 | -0.72 | 153.64 | 0.00 |
| Haryana | 48.97 | 0.61 | | 49.58 | 93.23 | 89.99 | -3.23 | 139.57 | 0.09 |
| Rajasthan | 103.34 | 0.00 | 16.56 | 119.90 | 62.69 | 61.03 | -1.66 | 180.93 | 0.00 |
| Delhi | 22.69 | | | 22.69 | 85.14 | 85.02 | -0.12 | 107.71 | 0.33 |
| UP | 140.55 | 15.98 | | 156.54 | 135.75 | 136.03 | 0.28 | 292.56 | 44.07 |
| Uttarakhand | | 19.50 | | 19.50 | 21.08 | 21.78 | 0.70 | 41.27 | 0.27 |
| HP | | 18.15 | | 18.15 | 6.95 | 7.81 | 0.87 | 25.96 | 0.00 |
| J & K | | 14.98 | 0.00 | 14.98 | 21.35 | 23.64 | 2.29 | 38.62 | 9.12 |
| Chandigarh | | | | 0.00 | 6.10 | 6.01 | 0.27 | 6.01 | 0.00 |
| Total | 366.55 | 87.58 | 16.56 | 470.70 | 517.26 | 515.58 | -1.33 | 986.28 | 53.87 |

* 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 (20:00 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 | 6276 | 0 | -163 | 377 | 6147 | 0 | 77 | 638 | 7235 |
| Haryana | 6714 | 0 | 4 | 324 | 6355 | 0 | -268 | 301 | 7023 |
| Rajasthan | 7453 | 0 | 33 | 497 | 6560 | 0 | -334 | 542 | 8502 |
| Delhi | 4448 | 11 | -8 | 641 | 4482 | 147 | -39 | 771 | 5274 |
| UP | 12446 | 2325 | -134 | 964 | 12742 | 1930 | 257 | 1240 | 12958 |
| Uttarakhand | 1839 | 75 | 35 | 314 | 1656 | 0 | 95 | 154 | 1839 |
| HP | 946 | 0 | -164 | -1241 | 961 | 0 | 146 | -1296 | 1195 |
| J&K | 1805 | 451 | 183 | -344 | 1427 | 252 | 73 | -572 | 1916 |
| Chandigarh | 257 | 0 | 2 | 0 | 221 | 0 | 19 | 15 | 306 |
| Total | 42184 | 2862 | -211 | 1533 | 40549 | 2329 | 25 | 1793 | 44217 |

* 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 :

| Entity | Station/ Constituent | Inst. Capacity (Effective) MW | Declared Capacity(MW) | Peak MW | Off Peak MW | Energy | Average | Schedule | UI |
|---|----------------------------------|----------------------------------|--------------------------|--------------|---------------|--------------|---------------|--------------|-------------|
| | | | | (Gross) | (Gross) | (Net MU) | Sentout(MW) | Net MU | Net MU |
| A. NTPC | Singrauli STPS (5*200+2*500) | 2000 | 1684 | 1836 | 1797 | 43.16 | 1798 | 39.38 | 3.78 |
| | Rihand I STPS (2*500) | 1000 | 452 | 492 | 474 | 11.46 | 477 | 10.47 | 0.99 |
| | Rihand II STPS (2*500) | 1000 | 943 | 1041 | 926 | 23.73 | 989 | 21.70 | 2.03 |
| | Rihand III STPS (2*500) | 1000 | 943 | 1022 | 954 | 23.00 | 958 | 21.12 | 1.88 |
| | Dadri I STPS (4*210) | 840 | 815 | 676 | 668 | 16.23 | 676 | 15.39 | 0.85 |
| | Dadri II STPS (2*490) | 980 | 980 | 733 | 698 | 17.57 | 732 | 17.17 | 0.40 |
| | Unchahar I TPS (2*210) | 420 | 405 | 424 | 399 | 9.48 | 395 | 9.16 | 0.32 |
| | Unchahar II TPS (2*210) | 420 | 401 | 437 | 377 | 8.92 | 372 | 8.44 | 0.49 |
| | Unchahar III TPS (1*220) | 210 | 201 | 208 | 196 | 4.39 | 183 | 4.13 | 0.26 |
| | ISTPP (Jhajhar) (3*500) | 1500 | 1000 | 820 | 660 | 15.94 | 664 | 16.36 | -0.42 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 806 | 306 | 331 | 8.34 | 347 | 8.36 | -0.03 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 381 | 212 | 214 | 5.49 | 229 | 5.28 | 0.21 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 643 | 133 | 97 | 3.17 | 132 | 3.14 | 0.03 |
| | Dadri Solar | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.03 | 0.00 |
| | Unchahar Solar | 10 | 3 | 0 | 0 | 0.03 | 1 | 0.06 | -0.03 |
| | Singrauli Solar | 15 | 3 | 0 | 0 | 0.08 | 3 | 0.07 | 0.01 |
| KHEP | 400 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | |
| Sub Total (A) | 11712 | 9660 | 8340 | 7791 | 191 | 7959 | 180 | 11 | |
| B. NPC | NAPS (2*220) | 440 | 379 | 412 | 428 | 9.20 | 384 | 9.10 | 0.11 |
| | RAPS- B (2*220) | 440 | 363 | 408 | 415 | 8.77 | 365 | 8.71 | 0.05 |
| | RAPS- C (2*220) | 440 | 380 | 415 | 427 | 9.08 | 378 | 9.12 | -0.04 |
| | Sub Total (B) | 1320 | 1122 | 1235 | 1270 | 27.05 | 1127 | 26.93 | 0.12 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 540 | 557 | 549 | 13.17 | 549 | 12.96 | 0.22 |
| | Chamera II HPS (3*100) | 300 | 300 | 313 | 312 | 7.47 | 311 | 7.20 | 0.27 |
| | Chamera III HPS (3*77) | 231 | 231 | 241 | 237 | 5.69 | 237 | 5.55 | 0.14 |
| | Bairasuil HPS(3*60) | 180 | 179 | 186 | 124 | 3.49 | 146 | 3.40 | 0.09 |
| | Salal-HPS (6*115) | 690 | 661 | 670 | 670 | 16.17 | 674 | 15.88 | 0.30 |
| | Tanakpur-HPS (3*40) | 94 | 55 | 61 | 62 | 1.48 | 62 | 1.32 | 0.16 |
| | Uri-I HPS (4*120) | 480 | 475 | 479 | 475 | 11.64 | 485 | 11.40 | 0.24 |
| | Uri-II HPS (4*60) | 240 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Dhauliganga-HPS (4*70) | 280 | 277 | 214 | 72 | 4.45 | 185 | 4.15 | 0.30 |
| | Dulhasti-HPS (3*130) | 390 | 387 | 407 | 399 | 9.43 | 393 | 9.29 | 0.14 |
| | Sewa-II HPS (3*40) | 120 | 119 | 130 | 81 | 2.17 | 90 | 2.02 | 0.15 |
| | Parbati 3 (4*130) | 520 | 260 | 264 | 0 | 2.67 | 111 | 2.58 | 0.08 |
| | Sub Total (C) | 4065 | 3485 | 3521 | 2981 | 78 | 3243 | 76 | 2 |
| | D. SJVNL | NJPC (6*250) | 1500 | 1605 | 1617 | 1342 | 34.85 | 1452 | 34.78 |
| Rampur HEP (6*68.67) | | 412 | 442 | 447 | 372 | 9.78 | 408 | 9.62 | 0.16 |
| Sub Total (D) | | 1912 | 2047 | 2064 | 1714 | 44.63 | 1860 | 44.40 | 0.23 |
| E. THDC | Tehri HPS (4*250) | 1000 | 287 | 302 | 297 | 6.78 | 282 | 6.70 | 0.08 |
| | Koteswar HPS (4*100) | 400 | 117 | 285 | 91 | 2.80 | 117 | 2.80 | 0.00 |
| | Sub Total (E) | 1400 | 404 | 587 | 388 | 9.58 | 399 | 9.50 | 0.08 |
| F. BBMB | Bhakra HPS (3*108+2*126+6*157) | 1514 | 848 | 1319 | 634 | 20.41 | 850 | 20.35 | 0.06 |
| | Dehar HPS (6*165) | 990 | 608 | 825 | 495 | 14.77 | 615 | 14.58 | 0.19 |
| | Pong HPS (6*66) | 396 | 68 | 192 | 66 | 1.69 | 70 | 1.63 | 0.06 |
| | Sub Total (F) | 2900 | 1523 | 2336 | 1195 | 36.86 | 1536 | 36.56 | 0.30 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 148 | 75 | 2.86 | 119 | 2.50 | 0.36 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 1070 | 700 | 19.64 | 818 | 19.10 | 0.54 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 110 | 35 | 1.29 | 54 | 1.21 | 0.07 |
| | Shree Cement TPS (2*150) | 300 | 0 | 291 | 296 | 6.59 | 274 | 6.56 | 0.02 |
| | Budhil HPS(IPP) | 70 | 0 | 0 | 37 | 1.22 | 51 | 1.40 | -0.18 |
| | Sub Total (G) | 1662 | 0 | 1619 | 1144 | 31.60 | 1317 | 30.77 | 0.83 |
| H. Total Regional Entities (A-G) | 24972 | 18240 | 19702 | 16482 | 418.57 | 17440 | 404.17 | 14.40 | |

| 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 | 320 | 420 | 8.48 | 353 |
| | Guru Nanak Dev TPS(Bhatinda) (4*110) | 440 | 100 | 120 | 2.43 | 101 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 199 | 212 | 4.42 | 184 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 785 | 698 | 26.62 | 1109 |
| | Talwandi Saboo (1*660) | 660 | 342 | 325 | 9.06 | 378 |
| | Thermal (Total) | 4680 | 1746 | 1775 | 51.00 | 2125 |
| | Total Hydro | 1148 | 765 | 765 | 18.37 | 765 |
| | Total Punjab | 5828 | 2511 | 2540 | 69.37 | 2890 |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 0 | 0 | 0.00 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 545 | 546 | 12.49 | 520 |
| Faridabad GPS (NTPC) | | 432 | 178 | 160 | 4.36 | 182 |
| RGTPP (Khedar) (IPP) (2*600) | | 1200 | 914 | 910 | 19.70 | 821 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 619 | 557 | 12.42 | 517 |
| Thermal (Total) | | 4944 | 2256 | 2173 | 48.97 | 2040 |
| Total Hydro | | 62 | 26 | 27 | 0.61 | 25 |
| Total Haryana | | 5006 | 2282 | 2200 | 49.58 | 2066 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 873 | 873 | 21.36 |
| | suratgarh TPS (6*250) | 1500 | 197 | 379 | 8.16 | 340 |
| | Chabra TPS (4*250) | 1000 | 347 | 358 | 8.30 | 346 |
| | Dholpur GPS (3*110) | 330 | 0 | 0 | 0.00 | 0 |
| | Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 157 | 157 | 3.64 | 152 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 139 | 125 | 3.36 | 140 |
| | Barsingar (NLC) (2*125) | 250 | 94 | 149 | 2.43 | 101 |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 956 | 782 | 20.30 | 846 |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 |
| | Kalisindh Thermal(1*600) | 600 | 435 | 435 | 10.42 | 434 |
| | Kawai(Adani) (2*660) | 1320 | 1171 | 859 | 25.37 | 1057 |
| | Thermal (Total) | 8276 | 4369 | 4117 | 103 | 4306 |
| | Total Hydro | 550 | 0 | 0 | 0.00 | 0 |
| | Wind power | 2798 | 521 | 344 | 15.86 | 661 |
| | Biomass | 99 | 27 | 27 | 0.64 | 27 |
| | Solar | 730 | 1 | 0 | 0.06 | 3 |
| | Renewable/Others (Total) | 3627 | 549 | 371 | 16.56 | 690 |
| | Total Rajasthan | 12453 | 4918 | 4488 | 119.90 | 4996 |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1314 | 1332 | 30.96 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 466 | 458 | 10.84 | 452 |
| Paricha TPS (2*110+2*220+2*250) | | 1140 | 812 | 815 | 19.31 | 805 |
| Panki TPS (2*105) | | 210 | 144 | 135 | 2.98 | 124 |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 223 | 217 | 5.39 | 225 |
| Tanda TPS (NTPC) (4*110) | | 440 | 390 | 360 | 9.05 | 377 |
| Roza TPS (IPP) (4*300) | | 1200 | 1103 | 1062 | 25.25 | 1052 |
| Anpara-C (IPP) (2*600) | | 1200 | 1085 | 1071 | 25.70 | 1071 |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 403 | 403 | 7.83 | 326 |
| Anpara-D | | 500 | 0 | 126 | 0.36 | 15 |
| Thermal (Total) | | 8629 | 5940 | 5979 | 138 | 5736 |
| Vishnuparyag HPS (IPP)(including Alakananada) | | 400 | 596 | 495 | 13.78 | 574 |
| Other Hydro | | 527 | 70 | 202 | 2.20 | 92 |
| Cogeneration | | 981 | 120 | 120 | 2.88 | 120 |
| Total UP | | 10537 | 6726 | 6796 | 156.54 | 5948 |
| Uttarakhand | Total Hydro | 1398 | 817 | 729 | 19.50 | 812 |
| | Total Uttarakhand | 1398 | 817 | 729 | 19.50 | 812 |
| Delhi | Rajghat TPS (2*67.5) | 135 | -1 | -1 | -0.04 | -2 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 71 | 73 | 1.71 | 71 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 279 | 262 | 5.83 | 243 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (6*250) | 1370 | 322 | 308 | 7.38 | 307 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 372 | 337 | 7.81 | 326 |
| | Thermal (Total) | 2917 | 1043 | 978 | 22.69 | 945 |
| | Total Delhi | 2917 | 1043 | 978 | 22.69 | 945 |
| HP | Baspa HPS (IPP) (2*150) | 300 | 330 | 222 | 6.30 | 263 |
| | Malana HPS (IPP) (2*43) | 86 | 48 | 38 | 1.18 | 49 |
| | Other Hydro | 728 | 456 | 448 | 10.66 | 444 |
| | Total HP | 1114 | 834 | 708 | 18.15 | 756 |
| J & K | Baglihar HPS (IPP) (3*150) | 450 | 450 | 450 | 10.80 | 450 |
| | Other Hydro/IPP | 436 | 175 | 173 | 4.18 | 174 |
| | Gas/Diesel/Others | 209 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1094 | 625 | 623 | 14.98 | 624 |
| Total State Control Area Generation | | 40347 | 19756 | 19062 | 470.70 | 19038 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 5228 | 5729 | 125.76 | 5240 |
| Total Regional Availability(Gross) | | 65319 | 44685 | 41273 | 1015.02 | 41718 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|--------------|---------------|--------------|
| Regional Entities Hydro | 11969 | 9836 | 7088 | 192.71 | 8029 |
| State Control Area Hydro | 5684 | 3137 | 3054 | 87.58 | 3075 |
| Total Regional Hydro | 17654 | 12973 | 10142 | 280.29 | 11104 |

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

| Element | Peak(20:00 Hrs) | | Off Peak(03:00 Hrs) | | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|----------------------------|-----------------|--|---------------------|--|--------------------------|--------|---------------|--------------|---------------|
| | MW | | MW | | Import | Export | Import | Export | |
| | | | | | | | | | |
| Vindhychal B/B | -150 | | 50 | | 250 | 250 | 0.61 | 2.98 | -2.38 |
| Gwalior-Agra (D/C) | 1824 | | 1524 | | 1937 | 0 | 36.74 | 0.00 | 36.74 |
| Zerda-Kankroli | -155 | | -246 | | 0 | 366 | 0.00 | 5.73 | -5.73 |
| Zerda-Bhimnal | -91 | | -157 | | 0 | 269 | 0.00 | 4.17 | -4.17 |
| Malanpur-Auraiya | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Badod-Kota/Morak | -27 | | -18 | | 47 | 64 | 0.00 | 0.08 | -0.08 |
| Mundra-Mohinderqar(HVDC) | 2398 | | 2503 | | 3365 | 0 | 56.26 | 0.00 | 56.26 |
| Vindhychal - Rihand | 494 | | 481 | | 513 | 0 | 11.96 | 0.00 | 11.96 |
| Sub Total WR | 4293 | | 4137 | | | | 105.58 | 12.97 | 92.61 |
| Pusauli Bypass | 150 | | 50 | | 150 | 0 | 1.99 | 0.00 | 1.99 |
| MZP- GKP (D/C) | 225 | | 292 | | 450 | 0 | 7.37 | 0.00 | 7.37 |
| Patna-Balia(D/C) | 368 | | 516 | | 560 | 0 | 11.76 | 0.00 | 11.76 |
| B'Sharif-Balia (D/C) | -58 | | 83 | | 156 | 175 | 1.28 | 0.00 | 1.28 |
| Pusauli-Balia | 38 | | 257 | | 309 | 0 | 2.09 | 0.00 | 2.09 |
| Gaya-Fatehpur (765 Kv) | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Pusauli-Sahupuri | 184 | | 190 | | 205 | 0 | 4.00 | 0.00 | 4.00 |
| K'nasa-Sahupuri | 0 | | 0 | | 0 | 0 | 0.96 | 0.00 | 0.96 |
| Son Ngr-Rihand | -27 | | -42 | | 0 | 46 | 0.00 | 0.86 | -0.86 |
| Garhwa-Rihand | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sasaram - Fatehpur(765 KV) | 55 | | 246 | | 297 | 79 | 4.55 | 0.00 | 4.55 |
| Sub Total ER | 935 | | 1592 | | | | 34.01 | 0.86 | 33.15 |
| Total IR Exch | 5228 | | 5729 | | | | 139.58 | 13.82 | 125.76 |

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 |
| | | | | | | | | |
| 32.69 | 1.43 | 34.12 | 11.02 | -4.98 | 9.06 | 3.35 | 0.89 | -0.89 |

| Total IR Schedule (MU) | | | Total IR Actual (MU) | | | Net IR UI (MU) | | |
|------------------------|-------------------------|--------|----------------------|------------|--------|----------------|------------|-------|
| Through ER | Through WR Inclds Indra | Total | Through ER | Through WR | Total | Through ER | Through WR | Total |
| 55.10 | 76.27 | 131.37 | 33.15 | 92.61 | 125.76 | -21.95 | 16.34 | -5.61 |

V(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

| Element | Peak(20:00 Hrs) | | Off Peak(03:00 Hrs) | | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|------------------------------|-----------------|--|---------------------|--|--------------------------|--------|-------------|--------|---------------|
| | MW | | MW | | Import | Export | Import | Export | |
| | | | | | | | | | |
| 132 KV Tanakpur - Mahendamar | -17 | | -9 | | 0 | 27 | 0 | 0 | -0.37 |

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 | 2.74 | 14.79 | 46.45 | 77.33 | 46.12 | 5.36 | 1.59 | 0.52 | 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 | | | | | |
| 50.30 | 18.04 | 49.57 | 15.09 | 49.91 | 0.19 | 0.11 | 50.30 | 49.78 |

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 | 407 | 04:35 | 397 | 01:17 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 415 | 05:06 | 391 | 10:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly | 400 | 418 | 08:00 | 396 | 20:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 421 | 05:04 | 397 | 23:08 | 0.0 | 0.0 | 0.3 | 0.0 |
| Dadri | 400 | 421 | 05:05 | 396 | 00:06 | 52.2 | 52.2 | 0.1 | 0.0 |
| Ballabgarh | 400 | 428 | 04:59 | 398 | 14:48 | 0.0 | 0.0 | 6.9 | 0.0 |
| Bawana | 400 | 424 | 05:05 | 398 | 23:08 | 0.0 | 0.0 | 4.3 | 0.0 |
| Bassi | 400 | 430 | 04:11 | 392 | 23:07 | 0.0 | 0.0 | 7.7 | 0.0 |
| Hissar | 400 | 416 | 04:08 | 389 | 00:05 | 0.0 | 1.5 | 0.0 | 0.0 |
| Moga | 400 | 417 | 04:04 | 398 | 15:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 421 | 04:38 | 396 | 22:32 | 0.0 | 0.0 | 2.0 | 0.0 |
| Nalagarh | 400 | 423 | 05:00 | 400 | 09:45 | 0.0 | 0.0 | 6.0 | 0.0 |
| Kishenpur | 400 | 418 | 04:03 | 402 | 15:08 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 411 | 03:48 | 385 | 19:42 | 0.0 | 14.1 | 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 | 803 | 05:03 | 752 | 23:08 | 0.0 | 0.0 | 0.8 | 0.0 |
| Balia | 765 | 776 | 05:04 | 731 | 10:38 | 0.0 | 24.8 | 0.0 | 0.0 |
| Moga | 765 | 801 | 05:04 | 755 | 15:08 | 0.0 | 0.0 | 0.1 | 0.0 |
| Agra | 765 | 794 | 05:04 | 746 | 23:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 806 | 05:04 | 758 | 15:08 | 0.0 | 0.0 | 3.6 | 0.0 |
| Unnao | 765 | NA | 00:00 | NA | 00:00 | 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 | 487.84 | 661.49 | 479.67 | 454.47 | 726.81 | 706.65 |
| Pong | 426.72 | 384.05 | 405.72 | 361.16 | 402.75 | 281.22 | 84.72 | 114.88 |
| Tehri | 829.79 | 740.04 | 752.90 | 69.00 | 743.05 | 15.00 | 148.63 | 222.00 |
| Koteshwar | 612.50 | 598.50 | 606.70 | 3.32 | 609.79 | 4.44 | 222.00 | 186.00 |
| Chamera-I | 760.00 | 748.75 | 0.00 | 0.00 | 0.00 | 0.00 | 332.28 | 356.91 |
| 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 | 521.90 | 10.73 | 520.37 | 7.30 | 319.80 | 422.01 |

* NA: Not Available

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

| State | Off- Peak Hours (03:00 Hrs) | | | Peak Hours (20:00 Hrs) | | | Day Energy (MU) | | |
|--------------|-----------------------------|-------------|-----------|------------------------|------------|-----------|-----------------|-----------------|--------------|
| | Bilateral (MW) | IEX (MW) | PXIL (MW) | Bilateral (MW) | IEX (MW) | PXIL (MW) | Bilateral (MU) | IEX / PXIL (MU) | Total (MU) |
| Punjab | 129 | 509 | 0 | 219 | 157 | 0 | 4.23 | 8.04 | 12.27 |
| Delhi | 671 | 101 | 0 | 515 | 126 | 0 | 14.04 | 5.73 | 19.77 |
| Haryana | 68 | 232 | 0 | 93 | 231 | 0 | 1.76 | 4.54 | 6.30 |
| HP | -792 | -504 | 0 | -589 | -652 | 0 | -15.06 | -11.90 | -26.96 |
| J&K | -557 | -15 | 0 | -395 | 52 | 0 | -11.17 | 0.06 | -11.11 |
| CHD | 0 | 15 | 0 | 0 | 0 | 0 | 0.24 | 0.32 | 0.56 |
| Rajasthan | -121 | 661 | 2 | -117 | 612 | 2 | -2.86 | 14.91 | 12.06 |
| UP | 1240 | 0 | 0 | 964 | 0 | 0 | 24.68 | 0.00 | 24.68 |
| Uttarakhand | 74 | 80 | 0 | 74 | 241 | 0 | 1.77 | 3.87 | 5.63 |
| Total | 711 | 1080 | 2 | 763 | 767 | 2 | 17.63 | 25.56 | 43.19 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 228 | 129 | 577 | 0 | 0 | 0 |
| Delhi | 721 | 475 | 772 | -231 | 0 | 0 |
| Haryana | 93 | 64 | 249 | -62 | 0 | 0 |
| HP | -488 | -893 | -193 | -762 | 0 | 0 |
| J&K | -355 | -557 | 175 | -51 | 0 | 0 |
| CHD | 30 | 0 | 64 | 0 | 0 | 0 |
| Rajasthan | -117 | -121 | 867 | 32 | 2 | 2 |
| UP | 1254 | 916 | 0 | 0 | 0 | 0 |
| Uttarakhand | 74 | 74 | 247 | 31 | 0 | 0 |

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 28.05.2015 :**

Normal

XIV. Synchronisation of new generating units :**XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**

0.00

XVI. Tripping of lines in pooling stations :**XVII. Complete generation loss in a generating station :**