

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 15.06.2015
Date of Reporting : 16.06.2015

I. Regional Availability/Demand:

| Demand Met | Evening Peak (20:00 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 |
| 42938 | 1186 | 44124 | 50.11 | 38755 | 1197 | 39952 | 50.17 | 978.0 | 40.19 |

* 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 | 61.52 | 15.82 | | 77.34 | 109.38 | 107.80 | -1.58 | 185.13 | 0.00 |
| Haryana | 17.17 | 0.67 | | 17.84 | 109.98 | 109.52 | -0.46 | 127.36 | 0.03 |
| Rajasthan | 96.37 | 0.84 | 18.91 | 116.12 | 60.03 | 59.71 | -0.33 | 175.82 | 0.00 |
| Delhi | 17.62 | | | 17.62 | 78.82 | 79.41 | 0.58 | 97.03 | 0.67 |
| UP | 136.00 | 16.17 | | 152.17 | 136.09 | 134.17 | -1.91 | 286.34 | 30.86 |
| Uttarakhand | | 19.75 | | 19.75 | 19.45 | 19.99 | 0.54 | 39.74 | 0.22 |
| HP | | 20.29 | | 20.29 | 4.78 | 5.26 | 0.48 | 25.55 | 0.00 |
| J & K | | 15.00 | 0.00 | 15.00 | 20.55 | 20.57 | 0.03 | 35.58 | 8.41 |
| Chandigarh | | | | 0.00 | 5.69 | 5.47 | 0.27 | 5.47 | 0.00 |
| Total | 328.68 | 88.53 | 18.91 | 436.12 | 544.78 | 541.91 | -2.38 | 978.02 | 40.19 |

* 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 | 8288 | 0 | -165 | 973 | 6642 | 0 | -16 | 1239 | 8920 |
| Haryana | 6455 | 0 | -87 | 1013 | 5148 | 0 | 65 | 1001 | 6522 |
| Rajasthan | 7018 | 0 | -120 | -126 | 7077 | 0 | -27 | 176 | 8244 |
| Delhi | 4087 | 0 | 126 | 466 | 3734 | 0 | 101 | 332 | 4380 |
| UP | 12433 | 730 | 113 | 775 | 12400 | 980 | 57 | 880 | 12524 |
| Uttarakhand | 1798 | 40 | 87 | 204 | 1437 | 0 | -72 | 39 | 1846 |
| HP | 994 | 10 | -45 | -1117 | 892 | 0 | 20 | -1249 | 1235 |
| J&K | 1624 | 406 | -24 | -340 | 1231 | 217 | -70 | -465 | 1811 |
| Chandigarh | 240 | 0 | -18 | 0 | 194 | 0 | -9 | 0 | 272 |
| Total | 42938 | 1186 | -133 | 1847 | 38755 | 1197 | 47 | 1953 | 44461 |

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

UI/OA/PX (OD/Import: (+ve), UD/Export: (-ve))

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 | 1855 | 2007 | 1910 | 45.82 | 1909 | 42.26 | 3.56 |
| | Rihand I STPS (2*500) | 1000 | 450 | 492 | 432 | 10.54 | 439 | 9.80 | 0.74 |
| | Rihand II STPS (2*500) | 1000 | 943 | 1000 | 1086 | 21.18 | 883 | 20.30 | 0.89 |
| | Rihand III STPS (2*500) | 1000 | 943 | 1016 | 702 | 20.45 | 852 | 19.56 | 0.89 |
| | Dadri I STPS (4*210) | 840 | 815 | 466 | 446 | 12.42 | 518 | 11.90 | 0.53 |
| | Dadri II STPS (2*490) | 980 | 980 | 781 | 675 | 18.43 | 768 | 18.11 | 0.32 |
| | Unchahar I TPS (2*210) | 420 | 403 | 412 | 287 | 7.74 | 322 | 7.82 | -0.09 |
| | Unchahar II TPS (2*210) | 420 | 401 | 432 | 262 | 7.34 | 306 | 7.33 | 0.02 |
| | Unchahar III TPS (1*220) | 210 | 200 | 204 | 128 | 3.64 | 152 | 3.70 | -0.05 |
| | ISTPP (Jhajihar) (3*500) | 1500 | 1000 | 863 | 629 | 15.44 | 643 | 15.85 | -0.42 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 806 | 383 | 393 | 9.28 | 387 | 9.28 | -0.01 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 381 | 333 | 254 | 6.62 | 276 | 6.45 | 0.17 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 627 | 302 | 309 | 7.08 | 295 | 7.11 | -0.03 |
| | Dadri Solar | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.03 | -0.01 |
| | Unchahar Solar | 10 | 3 | 0 | 0 | 0.03 | 1 | 0.06 | -0.03 |
| | Singrauli Solar | 15 | 3 | 0 | 0 | 0.00 | 0 | 0.07 | -0.07 |
| | KHEP | 400 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Sub Total (A) | 11712 | 9810 | 8691 | 7513 | 186 | 7752 | 180 | 6 | |
| B. NPC | NAPS (2*220) | 440 | 385 | 421 | 434 | 9.24 | 385 | 9.24 | 0.00 |
| | RAPS- B (2*220) | 440 | 367 | 411 | 417 | 8.99 | 375 | 8.81 | 0.19 |
| | RAPS- C (2*220) | 440 | 405 | 420 | 420 | 9.72 | 405 | 9.72 | 0.00 |
| | Sub Total (B) | 1320 | 1157 | 1252 | 1271 | 27.95 | 1165 | 27.77 | 0.19 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 534 | 541 | 539 | 12.90 | 537 | 12.81 | 0.09 |
| | Chamera II HPS (3*100) | 300 | 300 | 310 | 313 | 7.41 | 309 | 7.20 | 0.21 |
| | Chamera III HPS (3*77) | 231 | 231 | 238 | 227 | 5.61 | 234 | 5.55 | 0.06 |
| | Bairasuil HPS(3*60) | 180 | 179 | 182 | 63 | 2.61 | 109 | 2.57 | 0.04 |
| | Salal-HPS (6*115) | 690 | 448 | 673 | 0 | 11.40 | 475 | 10.76 | 0.64 |
| | Tanakpur-HPS (3*40) | 94 | 63 | 62 | 71 | 1.57 | 65 | 1.52 | 0.05 |
| | Uri-I HPS (4*120) | 480 | 475 | 478 | 475 | 11.70 | 487 | 11.40 | 0.30 |
| | Uri-II HPS (4*60) | 240 | 8 | 40 | 0 | 0.21 | 9 | 0.21 | 0.00 |
| | Dhauliganga-HPS (4*70) | 280 | 280 | 289 | 152 | 4.63 | 193 | 4.60 | 0.04 |
| | Dulhasti-HPS (3*130) | 390 | 386 | 396 | 391 | 9.31 | 388 | 9.26 | 0.05 |
| | Sewa-II HPS (3*40) | 120 | 119 | 130 | 114 | 3.26 | 136 | 2.40 | 0.86 |
| | Parbati 3 (4*130) | 520 | 390 | 390 | 0 | 2.02 | 84 | 2.02 | 0.00 |
| | Sub Total (C) | 4065 | 3414 | 3729 | 2344 | 73 | 3026 | 70 | 2 |
| D. SJVNL | NJPC (6*250) | 1500 | 1570 | 1635 | 1604 | 37.75 | 1573 | 37.75 | 0.01 |
| | Rampur HEP (6*68.67) | 412 | 439 | 448 | 446 | 10.49 | 437 | 10.39 | 0.10 |
| | Sub Total (D) | 1912 | 2010 | 2083 | 2050 | 48.24 | 2010 | 48.14 | 0.11 |
| E. THDC | Tehri HPS (4*250) | 1000 | 383 | 378 | 375 | 8.49 | 354 | 8.50 | -0.01 |
| | Koteshwar HPS (4*100) | 400 | 188 | 301 | 199 | 4.47 | 186 | 4.50 | -0.03 |
| | Sub Total (E) | 1400 | 570 | 679 | 574 | 12.96 | 540 | 13.00 | -0.04 |
| F. BBMB | Bhakra HPS (3*108+2*126+6*157) | 1514 | 1126 | 1312 | 789 | 27.03 | 1126 | 27.02 | 0.01 |
| | Dehar HPS (6*165) | 990 | 608 | 825 | 600 | 14.72 | 613 | 14.58 | 0.14 |
| | Pong HPS (6*66) | 396 | 120 | 318 | 66 | 3.00 | 125 | 2.87 | 0.13 |
| | Sub Total (F) | 2900 | 1853 | 2455 | 1455 | 44.75 | 1864 | 44.47 | 0.28 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 157 | 137 | 2.98 | 124 | 3.59 | -0.60 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 1200 | 1200 | 28.66 | 1194 | 28.50 | 0.15 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 50 | 50 | 1.28 | 53 | 1.20 | 0.08 |
| | Shree Cement TPS (2*150) | 300 | 0 | 296 | 297 | 6.49 | 271 | 6.60 | -0.11 |
| | Budhil HPS(IPP) (2*35) | 70 | 0 | 71 | 70 | 1.43 | 60 | 1.42 | 0.01 |
| | Sub Total (G) | 1662 | 0 | 1774 | 1754 | 40.85 | 1702 | 41.32 | -0.47 |
| H. Total Regional Entities (A-G) | 24972 | 18814 | 20663 | 16962 | 433.41 | 18059 | 424.62 | 8.79 | |

| 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 | 740 | 405 | 15.01 | 625 |
| | Guru Nanak Dev TPS(Bhatinda) (4*110) | 440 | 175 | 80 | 2.52 | 105 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 580 | 462 | 12.36 | 515 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 1128 | 680 | 23.76 | 990 |
| | Talwandi Saboo (1*660) | 660 | 335 | 333 | 7.87 | 328 |
| | Thermal (Total) | 4680 | 2958 | 1960 | 61.52 | 2563 |
| | Total Hydro | 1148 | 723 | 608 | 15.82 | 659 |
| | Total Punjab | 5828 | 3681 | 2568 | 77.34 | 3222 |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 0 | 0 | 0.00 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 233 | 248 | 5.67 | 236 |
| Faridabad GPS (NTPC) | | 432 | 4 | 0 | 0.55 | 23 |
| RGTTP (Khedar) (IPP) (2*600) | | 1200 | 0 | 0 | 0.00 | 0 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 435 | 371 | 10.96 | 457 |
| Thermal (Total) | | 4944 | 672 | 619 | 17.17 | 715 |
| Total Hydro | | 62 | 28 | 26 | 0.67 | 28 |
| Total Haryana | | 5006 | 700 | 645 | 17.84 | 743 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 949 | 931 | 22.71 |
| | suratgarh TPS (6*250) | 1500 | 738 | 737 | 17.94 | 747 |
| | Chabra TPS (4*250) | 1000 | 371 | 382 | 9.29 | 387 |
| | 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 | 54 | 56 | 1.35 | 56 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 136 | 137 | 3.37 | 140 |
| | Barsingar (NLC) (2*125) | 250 | 90 | 0 | 1.13 | 47 |
| | Giral LTPS (2*125) | 250 | 90 | 93 | 1.83 | 76 |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 719 | 532 | 16.59 | 691 |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 |
| | Kalisindh Thermal(1*600) | 600 | 460 | 460 | 10.82 | 451 |
| | Kawai(Adani) (2*660) | 1320 | 435 | 434 | 11.34 | 473 |
| | Thermal (Total) | 8276 | 4042 | 3762 | 96 | 4015 |
| | Total Hydro | 550 | 66 | 0 | 0.84 | 35 |
| | Wind power | 2798 | 444 | 996 | 18.12 | 755 |
| | Biomass | 99 | 24 | 24 | 0.59 | 24 |
| | Solar | 730 | 1 | 0 | 0.21 | 9 |
| | Renewable/Others (Total) | 3627 | 469 | 1020 | 18.91 | 788 |
| | Total Rajasthan | 12453 | 4577 | 4782 | 116.12 | 4838 |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1335 | 1193 | 29.90 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 445 | 347 | 8.80 | 367 |
| Paricha TPS (2*110+2*220+2*250) | | 1140 | 582 | 654 | 15.30 | 638 |
| Panki TPS (2*105) | | 210 | 140 | 140 | 3.20 | 133 |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 444 | 445 | 10.70 | 446 |
| Tanda TPS (NTPC) (4*110) | | 440 | 360 | 358 | 8.82 | 368 |
| Roza TPS (IPP) (4*300) | | 1200 | 1057 | 1080 | 24.09 | 1004 |
| Anpara-C (IPP) (2*600) | | 1200 | 1057 | 1080 | 25.58 | 1066 |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 283 | 282 | 6.71 | 279 |
| Anpara-D(1*500) | | 500 | 0 | 0 | 0.00 | 0 |
| Lalitpur TPS(1*660) | | 660 | 0 | 0 | 0.00 | 0 |
| Thermal (Total) | | 9289 | 5703 | 5579 | 133 | 5546 |
| Vishnuparyag HPS (IPP)(including Alakanada) | | 400 | 597 | 598 | 14.40 | 600 |
| Other Hydro | | 527 | 48 | 149 | 1.77 | 74 |
| Cogeneration | | 981 | 120 | 120 | 2.90 | 121 |
| Total UP | | 11197 | 6468 | 6446 | 152.17 | 5740 |
| Uttarakhand | Total Hydro | 1398 | 864 | 798 | 19.75 | 823 |
| | Total Uttarakhand | 1398 | 864 | 798 | 19.75 | 823 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | -0.01 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 78 | 76 | 7.09 | 295 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 143 | 149 | 3.56 | 148 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (6*250) | 1370 | -4 | -5 | -0.11 | -5 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 323 | 335 | 7.11 | 296 |
| | Thermal (Total) | 2917 | 540 | 555 | 17.62 | 734 |
| | Total Delhi | 2917 | 540 | 555 | 17.62 | 734 |
| HP | Baspa HPS (IPP) (2*100) | 300 | 304 | 304 | 7.62 | 318 |
| | Malana HPS (IPP) (2*43) | 86 | 48 | 54 | 1.22 | 51 |
| | Other Hydro | 728 | 494 | 471 | 11.45 | 477 |
| | Total HP | 1114 | 846 | 829 | 20.29 | 845 |
| J & K | Baglihar HPS (IPP) (3*150) | 450 | 440 | 440 | 10.27 | 428 |
| | Other Hydro/IPP | 436 | 204 | 203 | 4.73 | 197 |
| | Gas/Diesel/Others | 209 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1094 | 644 | 643 | 15.00 | 625 |
| Total State Control Area Generation | | 41007 | 18320 | 17266 | 436.12 | 17572 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 5777.6 | 5382.94 | 137.56 | 5732 |
| Total Regional Availability(Gross) | | 65979 | 44760 | 39611 | 1007.08 | 41362 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|--------------|---------------|--------------|
| Regional Entities Hydro | 11969 | 10353 | 7810 | 211.49 | 8812 |
| State Control Area Hydro | 5684 | 3219 | 3053 | 88.53 | 3089 |
| Total Regional Hydro | 17654 | 13572 | 10863 | 300.01 | 11901 |

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 | 400 | | 150 | | 500 | 0 | 5.27 | 0.00 | 5.27 |
| Gwalior-Agra (D/C) | 2503 | | 1935 | | 2627 | 0 | 46.60 | 0.00 | 46.60 |
| Zerda-Kankroli | -65 | | -135 | | 0 | 268 | 0.00 | 3.81 | -3.81 |
| Zerda-Bhinmal | -320 | | -94 | | 0 | 245 | 0.00 | 2.77 | -2.77 |
| Malanpur-Auraiya | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Badod-Kota/Morak | -50 | | -57 | | 14 | 70 | 0.00 | 1.03 | -1.03 |
| Mundra-Mohinderqarh(HVDC) | 2502 | | 2237 | | 3097 | 0 | 57.46 | 0.00 | 57.46 |
| Vindhychal - Rihand | 395 | | 276 | | 476 | 0 | 9.42 | 0.00 | 9.42 |
| Sub Total WR | 5365 | | 4312 | | | | 118.75 | 7.61 | 111.14 |
| Pusauli Bypass | 400 | | 400 | | 400 | 0 | 9.21 | 0.00 | 9.21 |
| MZP- GKP (D/C) | 12 | | 155 | | 320 | 63 | 3.57 | 0.00 | 3.57 |
| Patna-Balia(D/C) | 32 | | 314 | | 424 | 0 | 7.00 | 0.00 | 7.00 |
| B'Sharif-Balia (D/C) | -92 | | -27 | | 40 | 111 | 0.00 | 0.38 | -0.38 |
| Pusauli-Balia | 89 | | 65 | | 183 | 0 | 1.39 | 0.00 | 1.39 |
| Gaya-Fatehpur (765 Kv) | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Pusauli-Sahupuri | 175 | | 125 | | 175 | 0 | 3.51 | 0.00 | 3.51 |
| K'nasa-Sahupuri | 0 | | 0 | | 0 | 0 | 0.96 | 0.00 | 0.96 |
| Son Ngr-Rihand | -40 | | -27 | | 0 | 44 | 0.00 | 0.81 | -0.81 |
| Garhwa-Rihand | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sasaram - Fatehpur(765 Kv) | -285 | | -154 | | 0 | 295 | 0.00 | 2.69 | -2.69 |
| Barh -GKP (D/C) | 122 | | 220 | | 302 | 0 | 4.66 | 0.00 | 4.66 |
| Sub Total ER | 413 | | 1071 | | | | 30.29 | 3.88 | 26.42 |
| Total IR Exch | 5778 | | 5383 | | | | 149.04 | 11.49 | 137.56 |

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 |
| 28.59 | 2.77 | 31.36 | 19.95 | 1.22 | -1.33 | -0.12 | 0.70 | -0.70 |

| 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 |
| 50.68 | 87.74 | 138.42 | 26.42 | 111.14 | 137.56 | -24.27 | 23.41 | -0.86 |

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 - Mahendamaagar | -25 | | -28 | | 0 | 36 | 0 | 1 | -0.60 |

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 | 0.06 | 4.94 | 45.70 | 70.46 | 18.29 | 6.35 | 0.01 | NA |

| Frequency (Hz) | | | | Average Frequency | Frequency Variation Index | Std. Dev. | Frequency in 15 Min Block | |
|----------------|-------|---------|-------|-------------------|---------------------------|-----------|---------------------------|----------|
| Maximum | | Minimum | | | | | MAX (Hz) | MIN (Hz) |
| Freq | Time | Freq | Time | Hz | | | | |
| 50.20 | 13.23 | 49.79 | 19.48 | 50.01 | 0.04 | 0.06 | 50.21 | 49.79 |

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 | 403 | 21:04 | 396 | 20:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 415 | 07:31 | 400 | 19:32 | 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 | 418 | 08:04 | 399 | 22:12 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 419 | 04:07 | 399 | 22:44 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ballabgarh | 400 | 426 | 04:06 | 402 | 22:45 | 0.0 | 0.0 | 28.1 | 0.0 |
| Bawana | 400 | 422 | 04:06 | 400 | 22:45 | 0.0 | 0.0 | 1.9 | 0.0 |
| Bassi | 400 | 423 | 04:03 | 403 | 23:04 | 0.0 | 0.0 | 5.8 | 0.0 |
| Hissar | 400 | 410 | 02:27 | 396 | 00:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 417 | 04:05 | 396 | 22:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 421 | 04:06 | 396 | 22:44 | 0.0 | 0.0 | 0.3 | 0.0 |
| Nalagarh | 400 | 415 | 04:06 | 397 | 22:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kishenpur | 400 | 418 | 04:04 | 397 | 21:14 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 411 | 03:16 | 380 | 21:31 | 0.0 | 10.2 | 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 | 794 | 02:28 | 746 | 20:07 | 0.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 773 | 17:03 | 742 | 19:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 800 | 04:06 | 758 | 22:32 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 790 | 04:05 | 749 | 22:13 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 802 | 04:04 | 762 | 22:32 | 0.0 | 0.0 | 4.5 | 0.0 |
| Unnao | 765 | 751 | 00:00 | 751 | 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 | 487.21 | 644.48 | 482.24 | 511.55 | 952.95 | 952.95 |
| Pong | 426.72 | 384.05 | 405.84 | 361.16 | 401.60 | 259.17 | 137.79 | 210.20 |
| Tehri | 829.79 | 740.04 | 742.25 | 10.57 | 742.35 | 11.05 | 203.66 | 300.00 |
| Koteshwar | 612.50 | 598.50 | 609.31 | 4.21 | 610.30 | 4.70 | 300.00 | 296.00 |
| Chamera-I | 760.00 | 748.75 | 0.00 | 0.00 | 0.00 | 0.00 | 286.02 | 349.35 |
| Rihand | 268.22 | 252.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 1134.60 | 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 | 522.06 | 6.41 | 520.62 | 9.18 | 312.41 | 261.44 |

* 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 | 1005 | 233 | 0 | 919 | 54 | 0 | 25.25 | 3.82 | 29.07 |
| Delhi | 523 | -191 | 0 | 340 | 126 | 0 | 10.37 | 0.91 | 11.28 |
| Haryana | 858 | 144 | 0 | 841 | 173 | 0 | 20.67 | 2.26 | 22.94 |
| HP | -1072 | -177 | 0 | -819 | -298 | 0 | -21.39 | -5.51 | -26.89 |
| J&K | -445 | -20 | 0 | -379 | 39 | 0 | -9.95 | 0.03 | -9.92 |
| CHD | 0 | 0 | 0 | 0 | 0 | 0 | 0.24 | 0.02 | 0.26 |
| Rajasthan | -362 | 536 | 2 | -400 | 272 | 2 | -8.30 | 9.05 | 0.75 |
| UP | 880 | 0 | 0 | 775 | 0 | 0 | 19.05 | 0.00 | 19.05 |
| Uttarakhand | 39 | 0 | 0 | 27 | 177 | 0 | 0.98 | 3.04 | 4.02 |
| Total | 1426 | 525 | 2 | 1302 | 543 | 2 | 36.93 | 13.61 | 50.55 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 1402 | 919 | 253 | 52 | 0 | 0 |
| Delhi | 622 | 282 | 456 | -309 | 0 | 0 |
| Haryana | 888 | 841 | 182 | -143 | 0 | 0 |
| HP | -819 | -1072 | -167 | -399 | 0 | 0 |
| J&K | -344 | -504 | 180 | -45 | 0 | 0 |
| CHD | 30 | 0 | 15 | 0 | 0 | 0 |
| Rajasthan | -243 | -400 | 601 | -554 | 2 | 0 |
| UP | 931 | 685 | 0 | 0 | 0 | 0 |
| Uttarakhand | 58 | 27 | 177 | 0 | 29 | 0 |

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:**

XIII. Weather Conditions For 15.06.2015 :
Thunderstorm and rain in most part of NR 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 :**