

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 19.06.2016

Date of Reporting : 20.06.2016



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 |
| 47265 | 666 | 47931 | 50.08 | 51450 | 285 | 51735 | 50.03 | 1154.3 | 8.16 |

*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 | 94.53 | 15.32 | | 109.85 | 118.82 | 118.26 | -0.57 | 228.10 | 0.00 |
| Haryana | 43.63 | 0.80 | | 44.44 | 125.73 | 122.81 | -2.92 | 167.24 | 0.00 |
| Rajasthan | 128.61 | 0.00 | 14.77 | 143.39 | 69.75 | 71.53 | 1.78 | 214.91 | 0.00 |
| Delhi | 21.45 | | | 21.45 | 93.19 | 92.28 | -0.91 | 113.73 | 0.09 |
| UP | 171.77 | 17.73 | | 189.50 | 137.99 | 137.54 | -0.45 | 327.04 | 0.00 |
| Uttarakhand | | 18.22 | | 18.22 | 20.07 | 19.34 | -0.73 | 37.57 | 0.00 |
| HP | | 20.38 | | 20.38 | 4.06 | 5.48 | 1.42 | 25.86 | 0.05 |
| J & K | | 21.71 | 0.00 | 21.71 | 18.40 | 12.39 | -6.01 | 34.10 | 8.02 |
| Chandigarh | | | | 0.00 | 5.88 | 5.72 | 0.27 | 5.72 | 0.00 |
| Total | 460.00 | 94.16 | 14.77 | 568.93 | 593.88 | 585.35 | -8.11 | 1154.27 | 8.16 |

* 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 | | | | Maximum Demand Met (MW) and Time(Hrs) | | Shortage (MW) |
|--------------|-----------------------------|------------|--------------|---------------------|-------------------------|------------|------------|---------------------|---------------------------------------|-------------|---------------|
| | Demand Met | Shortage | UI | STOA/PX transaction | Demand Met | Shortage | UI | STOA/PX transaction | | | |
| Punjab | 9575 | 0 | -202 | 1466 | 9142 | 0 | -90 | 1311 | 9805 | 21:00 | 0 |
| Haryana | 7164 | 0 | -129 | 1059 | 7778 | 0 | -104 | 1350 | 8207 | 23:00 | 0 |
| Rajasthan | 7442 | 0 | -104 | 253 | 9551 | 0 | -31 | 262 | 9832 | 8:00 | 0 |
| Delhi | 4371 | 0 | -92 | 581 | 5177 | 0 | 67 | 553 | 5583 | 24:00 | 0 |
| UP | 14063 | 230 | -311 | 819 | 15222 | 0 | 360 | 1194 | 15222 | 3:00 | 0 |
| Uttarakhand | 1754 | 0 | -184 | 203 | 1695 | 0 | 114 | 134 | 1826 | 21:00 | 0 |
| HP | 901 | 0 | -69 | -1459 | 1028 | 0 | 121 | -1507 | 1220 | 10:00 | 0 |
| J&K | 1745 | 436 | -111 | -497 | 1616 | 285 | -72 | -636 | 1868 | 21:00 | 467 |
| Chandigarh | 249 | 0 | -14 | 0 | 242 | 0 | -5 | 0 | 289 | 23:00 | 0 |
| Total | 47265 | 666 | -1215 | 2426 | 51450 | 285 | 359 | 2661 | 52118 | 1:00 | 220 |

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

Diversity is: 1.03

III. Regional Entities :

| Station/ Constituent | Inst. Capacity | Declared Capacity(MW) | Peak MW | Off Peak MW | Energy | Average | Schedule | UI |
|---|----------------|-----------------------|--------------|--------------|---------------|--------------|---------------|--------------|
| | (Effective) MW | | (Gross) | (Gross) | (Net MU) | Sentout(MW) | Net MU | Net MU |
| A. NTPC | | | | | | | | |
| Singrauli STPS (5*200+2*500) | 2000 | 1900 | 2045 | 2049 | 44.56 | 1857 | 44.15 | 0.41 |
| Rihand I STPS (2*500) | 1000 | 465 | 501 | 512 | 10.50 | 437 | 10.24 | 0.26 |
| Rihand II STPS (2*500) | 1000 | 946 | 996 | 1033 | 20.38 | 849 | 20.18 | 0.20 |
| Rihand III STPS (2*500) | 1000 | 771 | 867 | 520 | 16.30 | 679 | 16.26 | 0.04 |
| Dadri I STPS (4*210) | 840 | 805 | 266 | 266 | 6.73 | 281 | 6.85 | -0.12 |
| Dadri II STPS (2*490) | 980 | 960 | 679 | 824 | 17.13 | 714 | 18.12 | -0.99 |
| Unchahar I TPS (2*210) | 420 | 349 | 287 | 339 | 6.31 | 263 | 6.66 | -0.36 |
| Unchahar II TPS (2*210) | 420 | 400 | 304 | 347 | 6.59 | 274 | 7.51 | -0.93 |
| Unchahar III TPS (1*210) | 210 | 200 | 149 | 179 | 3.33 | 139 | 3.72 | -0.39 |
| ISTPP (Jhajjar) (3*500) | 1500 | 1425 | 1080 | 1155 | 23.05 | 960 | 24.05 | -1.00 |
| Dadri GPS (4*130.19+2*154.51) | 830 | 787 | 186 | 152 | 4.10 | 171 | 4.29 | -0.19 |
| Anta GPS (3*88.71+1*153.2) | 419 | 398 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Auraiya GPS (4*111.19+2*109.30) | 663 | 629 | 151 | 116 | 3.20 | 133 | 3.48 | -0.28 |
| Dadri Solar(5) | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.02 | 0.00 |
| Unchahar Solar(10) | 10 | 2 | 0 | 0 | 0.05 | 2 | 0.04 | 0.01 |
| Singrauli Solar(15) | 15 | 2 | 0 | 0 | 0.05 | 2 | 0.04 | 0.00 |
| KHEP(4*200) | 800 | 855 | 850 | 852 | 20.52 | 855 | 20.52 | 0.00 |
| Sub Total (A) | 12112 | 10895 | 8361 | 8344 | 183 | 7617 | 186 | -3.33 |
| B. NPC | | | | | | | | |
| NAPS (2*220) | 440 | 184 | 213 | 215 | 4.45 | 186 | 4.42 | 0.04 |
| RAPS- B (2*220) | 440 | 368 | 412 | 415 | 8.85 | 369 | 8.83 | 0.02 |
| RAPS- C (2*220) | 440 | 410 | 435 | 441 | 9.45 | 394 | 9.84 | -0.39 |
| Sub Total (B) | 1320 | 962 | 1060 | 1071 | 22.76 | 948 | 23.09 | -0.33 |
| C. NHPC | | | | | | | | |
| Chamera I HPS (3*180) | 540 | 540 | 545 | 542 | 12.79 | 533 | 12.80 | -0.02 |
| Chamera II HPS (3*100) | 300 | 300 | 304 | 306 | 7.29 | 304 | 7.20 | 0.09 |
| Chamera III HPS (3*77) | 231 | 228 | 229 | 228 | 5.47 | 228 | 5.46 | 0.01 |
| Bairasuli HPS(3*60) | 180 | 179 | 182 | 0 | 2.47 | 103 | 2.41 | 0.07 |
| Salal-HPS (6*115) | 690 | 662 | 669 | 670 | 16.16 | 673 | 15.88 | 0.27 |
| Tanakpur-HPS (3*31.4) | 94 | 37 | 79 | 59 | 1.17 | 49 | 0.89 | 0.28 |
| Uri-I HPS (4*120) | 480 | 475 | 478 | 476 | 11.56 | 482 | 11.40 | 0.16 |
| Uri-II HPS (4*60) | 240 | 237 | 241 | 241 | 5.74 | 239 | 5.69 | 0.05 |
| Dhauliganga-HPS (4*70) | 280 | 280 | 288 | 274 | 6.68 | 279 | 6.65 | 0.03 |
| Dulhasti-HPS (3*130) | 390 | 387 | 402 | 397 | 9.34 | 389 | 9.19 | 0.16 |
| Sewa-II HPS (3*40) | 120 | 119 | 128 | 0 | 0.92 | 38 | 0.90 | 0.02 |
| Parbati 3 (4*130) | 520 | 390 | 393 | 0 | 3.89 | 162 | 3.83 | 0.06 |
| Sub Total (C) | 4065 | 3835 | 3939 | 3192 | 83 | 3479 | 82 | 1.20 |
| D. SJVNL | | | | | | | | |
| NJPC (6*250) | 1500 | 1605 | 1630 | 1633 | 38.80 | 1617 | 38.52 | 0.29 |
| Rampur HEP (6*68.67) | 412 | 436 | 447 | 447 | 10.68 | 445 | 10.47 | 0.21 |
| Sub Total (D) | 1912 | 2041 | 2077 | 2080 | 49.49 | 2062 | 48.99 | 0.49 |
| E. THDC | | | | | | | | |
| Tehri HPS (4*250) | 1000 | 528 | 530 | 266 | 6.54 | 273 | 6.50 | 0.04 |
| Koteshwar HPS (4*100) | 400 | 135 | 402 | 92 | 3.28 | 137 | 3.25 | 0.03 |
| Sub Total (E) | 1400 | 663 | 932 | 358 | 9.82 | 409 | 9.75 | 0.07 |
| F. BBMB | | | | | | | | |
| Bhakra HPS (2*108+3*126+5*157) | 1379 | 1049 | 1285 | 898 | 25.09 | 1046 | 25.17 | -0.07 |
| Dehar HPS (6*165) | 990 | 615 | 660 | 600 | 14.76 | 615 | 14.77 | -0.01 |
| Pong HPS (6*66) | 396 | 62 | 141 | 0 | 1.48 | 62 | 1.50 | -0.02 |
| Sub Total (F) | 2765 | 1726 | 2086 | 1498 | 41.33 | 1722 | 41.43 | -0.10 |
| G. IPP(s)/JV(s) | | | | | | | | |
| ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 208 | 200 | 4.38 | 182 | 4.22 | 0.15 |
| KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 1100 | 1100 | 26.21 | 1092 | 26.13 | 0.08 |
| Malana Stg-II HPS (2*50) | 100 | 0 | 111 | 111 | 2.56 | 107 | 2.41 | 0.15 |
| Shree Cement TPS (2*150) | 300 | 0 | 277 | 287 | 6.37 | 265 | 6.41 | -0.04 |
| Budhil HPS(IPP) (2*35) | 70 | 0 | 38 | 37 | 0.91 | 38 | 1.56 | -0.64 |
| Sub Total (G) | 1662 | 0 | 1734 | 1735 | 40.43 | 1685 | 40.73 | -0.31 |
| H. Total Regional Entities (A-G) | 25237 | 20123 | 20189 | 18277 | 430.12 | 17922 | 432.43 | -2.31 |

| 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 | 480 | 800 | 16.48 | 687 | |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 460 | 410 | 9.22 | 384 | |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 897 | 842 | 19.30 | 804 | |
| | Goindwal(GVK) (2*270) | 540 | 0 | 0 | -0.04 | -2 | |
| | Rajpura (2*700) | 1400 | 1320 | 1320 | 29.15 | 1214 | |
| | Talwandi Saboo (3*660) | 1980 | 1000 | 944 | 20.43 | 851 | |
| | Thermal (Total) | 6560 | 4157 | 4316 | 94.53 | 3939 | |
| | Total Hydro | 1000 | 660 | 662 | 15.32 | 638 | |
| | Total Punjab | 7560 | 4817 | 4978 | 109.85 | 4577 | |
| | Haryana | Panipat TPS (2*210+2*250) | 920 | 278 | 227 | 5.61 | 234 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 548 | 562 | 12.13 | 505 | |
| Faridabad GPS (NTPC)(2*137.75+1*156) | | 432 | 185 | 173 | 4.14 | 172 | |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 880 | 1145 | 21.76 | 907 | |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 | |
| Jhajjar(CLP) (2*660) | | 1320 | 0 | 0 | 0.00 | 0 | |
| Thermal (Total) | | 4497 | 1891 | 2107 | 43.63 | 1818 | |
| Total Hydro | | 62 | 37 | 33 | 0.80 | 34 | |
| Total Haryana | | 4559 | 1928 | 2140 | 44.44 | 1852 | |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 1008 | 1065 | 24.21 | 1009 |
| | suratgarh TPS (6*250) | 1500 | 968 | 1129 | 23.97 | 999 | |
| | Chabra TPS (4*250) | 1000 | 578 | 631 | 14.71 | 613 | |
| | Dholpur GPS (3*110) | 330 | 35 | 0 | 0.38 | 16 | |
| | Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 174 | 178 | 3.66 | 152 | |
| | RAPS A (NPC) (1*100+1*200) | 300 | 138 | 139 | 3.45 | 144 | |
| | Barsingsar (NLC) (2*125) | 250 | 80 | 79 | 1.83 | 76 | |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 | |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 470 | 841 | 17.04 | 710 | |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 | |
| | Kalisindh Thermal(2*600) | 1200 | 406 | 447 | 11.03 | 460 | |
| | Kawai(Adani) (2*660) | 1320 | 892 | 1239 | 28.33 | 1180 | |
| | Thermal (Total) | 8876 | 4749 | 5748 | 129 | 5359 | |
| | Total Hydro | 550 | 0 | 0 | 0.00 | 0 | |
| | Wind power | 3214 | 175 | 1034 | 12.26 | 511 | |
| | Biomass | 99 | 18 | 18 | 0.43 | 18 | |
| | Solar | 730 | 0 | 0 | 2.08 | 87 | |
| | Renewable/Others (Total) | 4043 | 193 | 1052 | 14.77 | 616 | |
| | Total Rajasthan | 13469 | 4942 | 6800 | 143.39 | 5974 | |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1327 | 1363 | 32.81 | 1367 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 530 | 548 | 11.59 | 483 | |
| Paricha TPS (2*110+2*220+2*250) | | 1160 | 887 | 800 | 18.88 | 787 | |
| Panki TPS (2*105) | | 210 | 72 | 140 | 2.39 | 99 | |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 536 | 463 | 11.47 | 478 | |
| Tanda TPS (NTPC) (4*110) | | 440 | 388 | 375 | 8.26 | 344 | |
| Roza TPS (IPP) (4*300) | | 1200 | 869 | 1053 | 21.13 | 880 | |
| Anpara-C (IPP) (2*600) | | 1200 | 1035 | 1080 | 22.71 | 946 | |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 405 | 365 | 7.36 | 307 | |
| Anpara-D(2*500) | | 1000 | 595 | 604 | 14.41 | 600 | |
| Lalitpur TPS(3*660) | | 1980 | 451 | 484 | 9.36 | 390 | |
| Bara(2*660) | | 1320 | 533 | 528 | 11.18 | 466 | |
| Thermal (Total) | | 12449 | 7628 | 7803 | 172 | 7147 | |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 435 | 435 | 10.47 | 436 | |
| Alaknanda(4*82.5) | | 330 | 260 | 258 | 6.38 | 266 | |
| Other Hydro | | 527 | 48 | 30 | 0.88 | 37 | |
| Cogeneration | | 981 | 100 | 100 | 0.24 | 10 | |
| Total UP | | 14727 | 8471 | 8626 | 190 | 7896 | |
| Uttarakhand | | Total Hydro | 1398 | 844 | 731 | 18.22 | 759 |
| | | Total Gas | 225 | 0 | 0 | 0.00 | 0 |
| | Total Uttarakhand | 1623 | 844 | 731 | 18 | 759 | |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 | |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 137 | 134 | 3.33 | 139 | |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 145 | 265 | 4.29 | 179 | |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 | |
| | Bawana GPS (4*216+2*253) | 1370 | 252 | 250 | 6.06 | 252 | |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 332 | 330 | 7.77 | 324 | |
| | Thermal (Total) | 2917 | 866 | 979 | 21.45 | 894 | |
| | Total Delhi | 2917 | 866 | 979 | 21.45 | 894 | |
| HP | Baspa HPS (IPP) (3*100) | 300 | 331 | 331 | 7.61 | 317 | |
| | Malana HPS (IPP) (2*43) | 86 | 99 | 103 | 2.36 | 98 | |
| | Other Hydro | 878 | 451 | 416 | 10.41 | 434 | |
| | Total HP | 1264 | 881 | 850 | 20.38 | 849 | |
| J & K | Baglihar HPS (IPP) (3*150+2*150) | 750 | 733 | 733 | 17.43 | 726 | |
| | Other Hydro/IPP | 560 | 183 | 176 | 4.28 | 178 | |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 | |
| | Total J & K | 1500 | 916 | 909 | 21.71 | 904 | |
| Total State Control Area Generation | | 47619 | 23665 | 26013 | 568.93 | 23705 | |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 6370 | 8609 | 178.73 | 7447 | |
| Total Regional Availability(Gross) | | 72856 | 50224 | 52899 | 1177.78 | 49074 | |

| IV. Total Hydro Generation: | | | | | | |
|-----------------------------|--|--------------|--------------|--------------|---------------|--------------|
| Regional Entities Hydro | | 12234 | 11303 | 9391 | 237.79 | 9908 |
| State Control Area Hydro | | 7106 | 4081 | 3908 | 94 | 3923 |
| Total Regional Hydro | | 19340 | 15384 | 13299 | 331.95 | 13831 |

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

| Element | Peak(20:00 Hrs) MW | Off Peak(03:00 Hrs) MW | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|------------------------------------|-----------------------|---------------------------|--------------------------|--------|---------------|--------------|------------------|
| | | | Import | Export | Import | Export | |
| Vindhychal(HVDC B/B) | -150 | 150 | 150 | 150 | 2.90 | 0.53 | 2.37 |
| 765 KV Gwalior-Agra (D/C) | 2183 | 2672 | 2700 | 0 | 54.73 | 0.00 | 54.73 |
| 400 KV Zerda-Kankroli | -140 | -192 | 0 | 251 | 0.00 | 4.40 | -4.40 |
| 400 KV Zerda-Bhinmal | -65 | -146 | 0 | 189 | 0.00 | 2.67 | -2.67 |
| 220 KV Auraiya-Malanpur | -23 | -9 | 0 | 55 | 0.00 | 0.65 | -0.65 |
| 220 KV Badod-Kota/Morak | -62 | -16 | 37 | 62 | 0.00 | 0.36 | -0.36 |
| Mundra-Mohindergarh(HVDC Bipole) | 2102 | 2498 | 2506 | 0.00 | 53.53 | 0.00 | 53.53 |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 735 | 922 | 1044 | 0 | 20.73 | 0.00 | 20.73 |
| Sub Total WR | 4580 | 5879 | | | 131.89 | 8.61 | 123.27 |
| Pusauli Bypass/HVDC | 200 | 200 | 200 | 0 | 4.87 | 0.00 | 4.87 |
| 400 KV MZP- GKP (D/C) | 237 | 496 | 565 | 0 | 10.39 | 0.00 | 10.39 |
| 400 KV Patna-Balia(D/C) X 2 | 656 | 855 | 917 | 0 | 18.43 | 0.00 | 18.43 |
| 400 KV B'Sharif-Balia (D/C) | 58 | 157 | 178 | 0 | 3.08 | 0.00 | 3.08 |
| 765 KV Gaya-Balia | 152 | 223 | 229 | 0 | 2.28 | 0.00 | 2.28 |
| 765 KV Gaya-Varanasi (D/C) | 127 | 241 | 241 | 0 | 4.80 | 0.00 | 4.80 |
| 220 KV Pusauli-Sahupuri | 185 | 212 | 208 | 0 | 4.63 | 0.00 | 4.63 |
| 132 KV K'nasa-Sahupuri | -30 | -22 | 0 | 34 | 0.00 | 0.60 | -0.60 |
| 132 KV Son Ngr-Rihand | -34 | -23 | 0 | 34 | 0.00 | 0.59 | -0.59 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -181 | -104 | 0 | 181 | 0.00 | 2.39 | -2.39 |
| 400 KV Barh -GKP (D/C) | 446 | 544 | 552 | 0 | 11.04 | 0.00 | 11.04 |
| 400 kV B'Sharif - Varanasi (D/C) | -26 | -49 | 63 | 75 | 0.00 | 0.47 | -0.47 |
| Sub Total ER | 1790 | 2730 | | | 59.50 | 4.05 | 55.45 |
| +/- 800 KV BiswanathCharialli-Agra | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sub Total NER | 0 | 0 | | | 0.00 | 0.00 | 0.00 |
| Total IR Exch | 6370 | 8609 | | | 191.38 | 12.66 | 178.73 |

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

| ISGS/LT Schedule (MU) | | | Bilateral Schedule (MU) | | Power Exchange Shdl (MU) | | Wheeling (MU) | |
|-----------------------|--------|-------|-------------------------|------------|--------------------------|------------|---------------|------------|
| ER | Bhutan | Total | Through ER | Through WR | Through ER | Through WR | Through ER | Through WR |
| 41.60 | 1.33 | 42.93 | 4.51 | 18.63 | 10.91 | 0.00 | 0.00 | 0.00 |

| Total IR Schedule (MU) | | | Total IR Actual (MU) | | | Net IR UI (MU) | | |
|------------------------|-------------------------|--------|---------------------------|------------|--------|----------------------------|------------|-------|
| Through ER | Through WR Inclds Mndra | Total | Through ER(including NER) | Through WR | Total | Through ER (including NER) | Through WR | Total |
| 58.35 | 121.94 | 180.29 | 55.45 | 123.27 | 178.73 | -2.90 | 1.34 | -1.57 |

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

| Element | Peak(20:00 Hrs) MW | Off Peak(03:00 Hrs) MW | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|---------------------------------|-----------------------|---------------------------|--------------------------|--------|-------------|--------|------------------|
| | | | Import | Export | Import | Export | |
| 132 KV Tanakpur - Mahendarnagar | -30 | -22 | 0 | 31 | 0 | 1 | -0.63 |

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 | 0.00 | 2.72 | 43.88 | 79.75 | 15.41 | 2.21 | 0.00 | 0.00 |

| <----- Frequency (Hz) -----> | | | | Average Frequency | Frequency Variation | Std. Dev. | Frequency in 15 Min Block | | Freq Dev Index (% of Time) |
|------------------------------|------|---------|------|----------------------|------------------------|-----------|---------------------------|------|----------------------------------|
| Maximum | | Minimum | | | | | MAX | MIN | |
| Freq | Time | Freq | Time | Hz | Index | (Hz) | (Hz) | | |
| 50.15 | 5.02 | 49.84 | 0.09 | 50.00 | 0.025 | 0.050 | 0.00 | 0.00 | 20.25 |

VII. Voltage profile 400 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Volta ge Deviat |
|-------------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|-----------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <380 kV | <390 kV | >420 kV | >430 kV | |
| Rihand | 400 | 413 | 7:25 | 405 | 16:29 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 421 | 6:33 | 398 | 22:06 | 0.0 | 0.0 | 1.4 | 0.0 | 1.4 |
| Bareilly(PG)400kV | 400 | 418 | 6:06 | 392 | 14:41 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 415 | 18:01 | 397 | 22:12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 417 | 6:01 | 394 | 14:51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ballabgarh | 400 | 425 | 6:01 | 396 | 14:51 | 0.0 | 0.0 | 17.8 | 0.0 | 17.8 |
| Bawana | 400 | 414 | 8:57 | 396 | 14:55 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bassi | 400 | 416 | 5:02 | 387 | 22:11 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| Hissar | 400 | 418 | 6:02 | 395 | 22:10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 410 | 6:03 | 393 | 14:44 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 415 | 6:04 | 396 | 15:22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nalagarh | 400 | 416 | 4:06 | 396 | 15:08 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kishenpur | 400 | 408 | 7:04 | 394 | 14:51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 405 | 6:05 | 380 | 20:42 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 |
| Amritsar | 400 | 414 | 6:02 | 398 | 14:20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kashipur | 400 | 419 | 6:05 | 405 | 14:41 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 405 | 0:00 | 391 | 14:55 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rishikesh | 400 | 420 | 6:04 | 388 | 14:51 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |

VIII. Voltage profile 765 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Volta ge Deviat |
|-----------------|--------------------|-------------|------|--------------|-------|------------------------|---------|---------|---------|-----------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV | |
| Fatehpur | 765 | 792 | 6:13 | 746 | 22:08 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 794 | 6:19 | 756 | 22:10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 792 | 6:06 | 754 | 14:52 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 786 | 6:02 | 738 | 22:12 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 797 | 6:02 | 758 | 14:26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unnao | 765 | 780 | 8:05 | 741 | 15:26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 792 | 6:28 | 758 | 1:01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 801 | 6:06 | 755 | 15:22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Jhatikara | 765 | 790 | 6:02 | 746 | 22:10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly 765 kV | 765 | 795 | 6:06 | 752 | 14:40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 782 | 5:01 | 751 | 22:10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 782 | 5:04 | 742 | 22:11 | 0.0 | 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 | 479.25 | 441.00 | 487.10 | 644.48 | 1015.38 | 944.88 |
| Pong | 426.72 | 384.05 | 390.16 | 55.55 | 405.60 | 361.16 | 248.11 | 128.87 |
| Tehri | 829.79 | 740.04 | 745.65 | 27.24 | 741.85 | 8.66 | 283.58 | 243.00 |
| Koteshwar | 612.50 | 598.50 | 610.65 | 4.69 | 610.20 | 4.66 | 243.00 | 216.01 |
| Chamera-I | 760.00 | 748.75 | 753.34 | 0.00 | 0.00 | 0.00 | 319.67 | 350.45 |
| Rihand | 268.22 | 252.98 | 839.50 | 111.38 | 837.70 | 89.40 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 1145.00 | 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 | 505.13 | 7.08 | 522.13 | 7.91 | 306.94 | 332.06 |

* 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 | 686 | 625 | 0 | 972 | 494 | 0 | 21.50 | 15.62 | 37.12 |
| Delhi | 285 | 267 | 0 | 522 | 60 | 0 | 12.02 | 2.85 | 14.87 |
| Haryana | 1035 | 315 | 0 | 832 | 228 | 0 | 21.95 | 6.16 | 28.11 |
| HP | -1122 | -386 | 0 | -871 | -588 | 0 | -22.87 | -9.92 | -32.79 |
| J&K | -621 | -15 | 0 | -571 | 75 | 0 | -16.58 | -0.54 | -17.12 |
| CHD | 0 | 0 | 0 | 0 | 0 | 0 | 0.36 | 0.00 | 0.36 |
| Rajasthan | -109 | 371 | 0 | -109 | 362 | 0 | -2.60 | 9.95 | 7.34 |
| UP | 1191 | 3 | 0 | 819 | 0 | 0 | 18.72 | 0.40 | 19.12 |
| Uttarakhand | 74 | 60 | 0 | 78 | 126 | 0 | 1.79 | 1.95 | 3.74 |
| Total | 1420 | 1241 | 0 | 1671 | 755 | 0 | 34.28 | 26.48 | 60.76 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 1289 | 652 | 936 | 481 | 0 | 0 |
| Delhi | 572 | 285 | 590 | -301 | 0 | 0 |
| Haryana | 1064 | 812 | 320 | 173 | 0 | 0 |
| HP | -866 | -1124 | -313 | -673 | 0 | 0 |
| J&K | -571 | -898 | 75 | -151 | 0 | 0 |
| CHD | 44 | 0 | 0 | 0 | 0 | 0 |
| Rajasthan | -109 | -109 | 549 | 330 | 0 | 0 |
| UP | 1283 | 607 | 231 | 0 | 0 | 0 |
| Uttarakhand | 78 | 72 | 126 | 16 | 0 | 0 |

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

| | |
|--------------|-------|
| WR | 0.00% |
| ER | 0.00% |
| Simultaneous | 0.00% |

(ii)%age of times ATC violated on the inter-regional corridors

| | |
|--------------|--------|
| WR | 0.00% |
| ER | 0.00% |
| Simultaneous | 24.65% |

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

| | |
|----------------|-------|
| Rihand - Dadri | 0.00% |
|----------------|-------|

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 19.06.2016 :

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

1. At Kanpur New (GIS) 1500 MVA (765kV/400kV) ICT-1 First time test charged on 18.06.16/1947hrs from 400kV side only no load.

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.