

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(सार्वजनिक की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 21.11.2015
Date of Reporting : 22.11.2015

I. Regional Availability/Demand:

| Demand Met | Evening Peak (19:00 Hrs) MW | | | Demand Met | Off Peak (03:00 Hrs) MW | | | Day Energy (Net MU) | |
|------------|-----------------------------|-------------|------------|------------|-------------------------|-------------|------------|---------------------|----------|
| | Shortage | Requirement | Freq* (Hz) | | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage |
| 37726 | 2419 | 40145 | 49.95 | 29280 | 767 | 30046 | 50.06 | 768.1 | 58.77 |

* 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 | 40.65 | 9.44 | | 50.09 | 37.23 | 36.23 | -1.00 | 86.32 | 0.00 |
| Haryana | 40.23 | 0.45 | | 40.69 | 64.96 | 64.24 | -0.71 | 104.93 | 0.00 |
| Rajasthan | 109.77 | 5.01 | 14.68 | 129.46 | 73.34 | 73.80 | 0.47 | 203.26 | 3.31 |
| Delhi | 14.60 | | | 14.60 | 39.42 | 41.75 | 2.34 | 56.35 | 0.65 |
| UP | 99.72 | 6.90 | | 106.62 | 107.75 | 110.28 | 2.53 | 216.90 | 44.28 |
| Uttarakhand | | 6.32 | | 6.32 | 25.14 | 27.40 | 2.26 | 33.72 | 0.77 |
| HP | | 3.80 | | 3.80 | 17.76 | 18.27 | 0.52 | 22.07 | 0.04 |
| J & K | | 8.90 | 0.00 | 8.90 | 31.92 | 32.33 | 0.40 | 41.23 | 9.71 |
| Chandigarh | | | | 0.00 | 3.00 | 3.34 | 0.27 | 3.34 | 0.00 |
| Total | 304.98 | 40.82 | 14.68 | 360.48 | 400.50 | 407.64 | 7.07 | 768.12 | 58.77 |

* 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 | 4545 | 0 | -77 | -321 | 2767 | 0 | 182 | -389 | 4545 |
| Haryana | 6091 | 0 | -48 | -229 | 3160 | 0 | 114 | -108 | 6091 |
| Rajasthan | 9275 | 0 | -147 | 270 | 8147 | 0 | 69 | 586 | 9309 |
| Delhi | 2797 | 217 | -141 | -171 | 1634 | 0 | 267 | -1073 | 3011 |
| UP | 9958 | 1620 | -138 | -283 | 10032 | 490 | 211 | 109 | 10173 |
| Uttarakhand | 1719 | 75 | 53 | 390 | 1156 | 0 | 100 | 426 | 1719 |
| HP | 1172 | 9 | -153 | -161 | 721 | 0 | 90 | 183 | 1301 |
| J&K | 1992 | 498 | 102 | 257 | 1569 | 277 | 25 | 349 | 1992 |
| Chandigarh | 177 | 0 | 1 | -45 | 94 | 0 | 9 | -30 | 177 |
| Total | 37726 | 2419 | -548 | -293 | 29280 | 767 | 1066 | 52 | 37726 |

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

Diversity is 1.02

III. Regional Entities :

| A. NTPC | 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 |
| | Singrauli STPS (5*200+2*500) | 2000 | 1884 | 1996 | 2042 | 45.02 | 1876 | 44.04 | 0.98 |
| | Rihand I STPS (2*500) | 1000 | 870 | 834 | 899 | 19.82 | 826 | 19.46 | 0.36 |
| | Rihand II STPS (2*500) | 1000 | 963 | 909 | 943 | 21.44 | 894 | 21.06 | 0.39 |
| | Rihand III STPS (2*500) | 1000 | 523 | 516 | 518 | 12.18 | 507 | 11.65 | 0.52 |
| | Dadri I STPS (4*210) | 840 | 610 | 191 | 151 | 3.91 | 163 | 4.11 | -0.20 |
| | Dadri II STPS (2*490) | 980 | 771 | 0 | 352 | 5.20 | 217 | 5.85 | -0.65 |
| | Unchahar I TPS (2*210) | 420 | 406 | 328 | 370 | 8.30 | 346 | 8.30 | -0.01 |
| | Unchahar II TPS (2*210) | 420 | 404 | 313 | 303 | 7.64 | 318 | 7.69 | -0.05 |
| | Unchahar III TPS (1*220) | 210 | 202 | 158 | 167 | 3.97 | 165 | 3.92 | 0.04 |
| | ISTPP (Jhajjar) (3*500) | 1500 | 1500 | 992 | 618 | 17.26 | 719 | 17.81 | -0.55 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 636 | 549 | 531 | 12.19 | 508 | 12.50 | -0.31 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 419 | 209 | 220 | 5.36 | 223 | 5.35 | 0.01 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 653 | 291 | 298 | 6.07 | 253 | 6.10 | -0.03 |
| | Dadri Solar | 5 | 0 | 0 | 0 | 0.02 | 1 | 0.02 | 0.00 |
| | Unchahar Solar | 10 | 1 | 0 | 0 | 0.02 | 1 | 0.03 | 0.00 |
| | Singrauli Solar | 15 | 1 | 0 | 0 | 0.04 | 2 | 0.03 | 0.00 |
| | KHEP | 800 | 655 | 126 | 0 | 2.13 | 89 | 1.97 | 0.16 |
| | Sub Total (A) | 12112 | 10498 | 7412 | 7412 | 171 | 7107 | 170 | 1 |
| B. NPC | NAPS- (2*220) | 440 | 198 | 219 | 228 | 4.76 | 198 | 4.75 | 0.00 |
| | RAPS- B (2*220) | 440 | 230 | 359 | 224 | 5.34 | 222 | 5.52 | -0.18 |
| | RAPS- C (2*220) | 440 | 410 | 461 | 460 | 9.92 | 413 | 9.84 | 0.08 |
| | Sub Total (B) | 1320 | 838 | 1039 | 912 | 20.01 | 834 | 20.11 | -0.10 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 540 | 555 | 0 | 1.83 | 76 | 1.62 | 0.21 |
| | Chamera II HPS (3*100) | 300 | 129 | 200 | 0 | 1.67 | 69 | 1.50 | 0.17 |
| | Chamera III HPS (3*77) | 231 | 229 | 96 | 0 | 0.92 | 38 | 0.80 | 0.12 |
| | Bairasuli HPS(3*60) | 180 | 122 | 123 | 0 | 0.67 | 28 | 0.60 | 0.07 |
| | Salal-HPS (6*115) | 690 | 175 | 336 | 148 | 5.09 | 212 | 4.20 | 0.90 |
| | Tanakpur-HPS (3*40) | 94 | 25 | 28 | 50 | 0.78 | 33 | 0.61 | 0.17 |
| | Uri-I HPS (4*120) | 480 | 345 | 405 | 419 | 9.10 | 379 | 8.28 | 0.81 |
| | Uri-II HPS (4*60) | 240 | 218 | 241 | 223 | 5.38 | 224 | 5.23 | 0.16 |
| | Dhauliganga-HPS (4*70) | 280 | 280 | 279 | 0 | 1.23 | 51 | 1.10 | 0.13 |
| | Dulhasti-HPS (3*130) | 390 | 387 | 397 | 0 | 4.19 | 175 | 4.00 | 0.19 |
| | Sewa-II HPS (3*40) | 120 | 119 | 129 | 0 | 0.52 | 22 | 0.40 | 0.12 |
| | Parbati 3 (4*130) | 520 | 130 | 131 | 0 | 0.81 | 34 | 0.39 | 0.42 |
| | Sub Total (C) | 4065 | 2699 | 2919 | 840 | 32 | 1341 | 29 | 3 |
| D.SJVNL | NJPC (6*250) | 1500 | 1605 | 1605 | 0 | 9.61 | 400 | 9.46 | 0.14 |
| | Rampur HEP (6*68.67) | 412 | 432 | 374 | 0 | 2.62 | 109 | 2.64 | -0.01 |
| | Sub Total (D) | 1912 | 2037 | 1979 | 0 | 12.23 | 510 | 12.10 | 0.13 |
| E. THDC | Tehri HPS (4*250) | 1000 | 1056 | 1056 | 0 | 6.11 | 255 | 6.00 | 0.11 |
| | Koteshwar HPS (4*100) | 400 | 92 | 102 | 91 | 2.24 | 93 | 2.20 | 0.04 |
| | Sub Total (E) | 1400 | 1148 | 1158 | 91 | 8.36 | 348 | 8.20 | 0.16 |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 543 | 1025 | 351 | 13.31 | 555 | 13.04 | 0.27 |
| | Dehar HPS (6*165) | 990 | 163 | 480 | 140 | 3.95 | 165 | 3.91 | 0.05 |
| | Pong HPS (6*66) | 396 | 213 | 318 | 126 | 5.01 | 209 | 5.11 | -0.10 |
| | Sub Total (F) | 2765 | 919 | 1823 | 617 | 22.27 | 928 | 22.05 | 0.22 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 17 | 0 | 0.64 | 27 | 0.61 | 0.03 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 880 | 0 | 5.22 | 218 | 5.16 | 0.06 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Shree Cement TPS (2*150) | 300 | 0 | 112 | 112 | 2.66 | 111 | 2.68 | -0.02 |
| | Budhil HPS(IPP) (2*35) | 70 | 0 | 75 | 0 | 0.23 | 10 | 0.23 | 0.00 |
| | Sub Total (G) | 1662 | 0 | 1084 | 112 | 8.75 | 364 | 8.67 | 0.07 |
| H. Total Regional Entities (A-G) | | 25237 | 18138 | 17414 | 9984 | 274.36 | 11432 | 269.75 | 4.61 |

| 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 | 3.47 | 144 | |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 90 | 90 | 1.98 | 82 | |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 201 | 204 | 4.46 | 186 | |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 | |
| | Rajpura (2*700) | 1400 | 350 | 358 | 8.95 | 373 | |
| | Talwandi Saboo (2*660) | 1320 | 1016 | 844 | 21.80 | 908 | |
| | Thermal (Total) | 5360 | 1817 | 1656 | 40.65 | 1694 | |
| | Total Hydro | 1000 | 392 | 366 | 9.44 | 393 | |
| | Total Punjab | 6360 | 2209 | 2022 | 50.09 | 2087 | |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 0 | 0 | 0.00 | 0 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 568 | 453 | 11.30 | 471 | |
| Faridabad GPS (NTPC) | | 432 | 411 | 312 | 8.90 | 371 | |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 577 | 390 | 9.99 | 416 | |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 | |
| Jhajjar(CLP) (2*660) | | 1320 | 614 | 375 | 10.05 | 419 | |
| Thermal (Total) | | 4944 | 2170 | 1530 | 40.23 | 1676 | |
| Total Hydro | | 62 | 18 | 19 | 0.45 | 19 | |
| Total Haryana | | 5006 | 2188 | 1549 | 40.69 | 1695 | |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 1065 | 1109 | 25.88 | 1078 |
| | suratgarh TPS (6*250) | 1500 | 432 | 439 | 10.57 | 440 | |
| | Chabra TPS (4*250) | 1000 | 400 | 659 | 11.36 | 473 | |
| | Dholpur GPS (3*110) | 330 | 86 | 87 | 2.26 | 94 | |
| | Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 188 | 194 | 4.75 | 198 | |
| | RAPS A (NPC) (1*100+1*200) | 300 | 158 | 129 | 3.97 | 165 | |
| | Barsingar (NLC) (2*125) | 250 | 93 | 94 | 2.14 | 89 | |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 | |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 745 | 720 | 16.97 | 707 | |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 | |
| | Kalisindh Thermal(2*600) | 1200 | 509 | 0 | 4.20 | 175 | |
| | Kawai(Adani) (2*660) | 1320 | 1218 | 1188 | 27.66 | 1153 | |
| | Thermal (Total) | 8876 | 4894 | 4619 | 110 | 4574 | |
| | Total Hydro | 550 | 258 | 141 | 5.01 | 209 | |
| | Wind power | 3214 | 379 | 629 | 11.69 | 487 | |
| | Biomass | 99 | 20 | 20 | 0.48 | 20 | |
| | Solar | 730 | 0 | 0 | 2.51 | 105 | |
| | Renewable/Others (Total) | 4043 | 399 | 649 | 14.68 | 612 | |
| | Total Rajasthan | 13469 | 5551 | 5409 | 129.46 | 5394 | |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 945 | 941 | 22.20 | 925 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 384 | 285 | 7.90 | 329 | |
| Paricha TPS (2*110+2*220+2*250) | | 1140 | 520 | 502 | 11.80 | 492 | |
| Panki TPS (2*105) | | 210 | 72 | 54 | 1.50 | 63 | |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 468 | 545 | 13.00 | 542 | |
| Tanda TPS (NTPC) (4*110) | | 440 | 389 | 390 | 8.62 | 359 | |
| Roza TPS (IPP) (4*300) | | 1200 | 279 | 275 | 6.20 | 258 | |
| Anpara-C (IPP) (2*600) | | 1200 | 1082 | 1080 | 24.40 | 1017 | |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 81 | 57 | 1.70 | 71 | |
| Anpara-D(1*500) | | 500 | 0 | 0 | 0.00 | 0 | |
| Lalitpur TPS(1*660) | | 660 | 0 | 0 | 0.00 | 0 | |
| Bara(1*660) | | 660 | 0 | 0 | 0.00 | 0 | |
| Thermal (Total) | | 9949 | 4220 | 4129 | 97 | 4055 | |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 117 | 112 | 2.70 | 113 | |
| Alakanada(4*82.5) | | 330 | 74 | 75 | 1.70 | 71 | |
| Other Hydro | | 527 | 89 | 152 | 2.50 | 104 | |
| Cogeneration | | 981 | 100 | 100 | 2.40 | 100 | |
| Total UP | | 12227 | 4600 | 4568 | 107 | 4443 | |
| Uttarakhand | | Total Hydro | 1398 | 453 | 175 | 6.32 | 263 |
| | | Total Uttarakhand | 1398 | 453 | 175 | 6.32 | 263 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | -0.01 | -1 | |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 40 | 79 | 0.91 | 38 | |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 158 | 162 | 3.42 | 143 | |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 | |
| | Bawana GPS (4*216+2*253) | 1370 | 302 | 252 | 6.55 | 273 | |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 190 | 165 | 3.73 | 155 | |
| | Thermal (Total) | 2917 | 690 | 658 | 14.60 | 608 | |
| | Total Delhi | 2917 | 690 | 658 | 14.60 | 608 | |
| HP | Baspa HPS (IPP) (3*100) | 300 | 32 | 0 | 1.27 | 53 | |
| | Malana HPS (IPP) (2*43) | 86 | 75 | 0 | 0.33 | 14 | |
| | Other Hydro | 878 | 185 | 89 | 2.20 | 92 | |
| | Total HP | 1264 | 292 | 89 | 3.80 | 158 | |
| J & K | Baglihar HPS (IPP) (3*150) | 450 | 260 | 260 | 6.24 | 260 | |
| | Other Hydro/IPP | 560 | 104 | 115 | 2.66 | 111 | |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 | |
| | Total J & K | 1200 | 364 | 375 | 8.90 | 371 | |
| Total State Control Area Generation | | 43841 | 16347 | 14845 | 360.48 | 15020 | |
| J. Net Inter Regional Exchange (Import +ve)/Export (-ve) | | | 5146 | 5727 | 152.10 | 6338 | |
| Total Regional Availability(Gross) | | 69078 | 38906 | 30557 | 786.94 | 32789 | |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| Regional Entities Hydro | 12234 | 8901 | 1548 | 83.02 | 3459 |
| State Control Area Hydro | 6581 | 2057 | 1504 | 41 | 1701 |
| Total Regional Hydro | 18815 | 10958 | 3052 | 123.84 | 5160 |

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(HVDC B/B) | -50 | -200 | 0 | 300 | 0.00 | 3.82 | | -3.82 | |
| 765 KV Gwalior-Agra (D/C) | 2173 | 2186 | 2655 | 0 | 55.82 | 0.00 | | 55.82 | |
| 400 KV Zerda-Kankrol | -93 | -159 | 78 | 274 | 0.00 | 1.81 | | -1.81 | |
| 400 KV Zerda-Bhinmal | -14 | -81 | 197 | 242 | 0.07 | 0.00 | | 0.07 | |
| 220 KV Auraiya-Malanpur | -103 | -119 | 0 | 137 | 0.00 | 2.53 | | -2.53 | |
| 220 KV Badod-Kota/Morak | -59 | -53 | 0 | 145 | 0.00 | 1.75 | | -1.75 | |
| Mundra-Mohinderorah(HVDC Bipole) | 2103 | 2102 | 2105 | 0 | 50.76 | 0.00 | | 50.76 | |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | | 0.00 | |
| 765 kV Phagi-Gwalior (D/C) | 813 | 978 | 1597 | 0 | 26.55 | 0.00 | | 26.55 | |
| Sub Total WR | 4770 | 4654 | | | 133.20 | 9.90 | | 123.30 | |
| Pusaull Bypass/HVDC | 350 | 350 | 350 | 0 | 8.55 | 0.00 | | 8.55 | |
| 400 KV MZP -GKP (D/C) | 44 | 244 | 440 | 36 | 5.25 | 0.00 | | 5.25 | |
| 400 KV Patna-Balia(D/C) X 2 | 248 | 333 | 484 | 0 | 9.13 | 0.00 | | 9.13 | |
| 400 KV B'Sharif-Balia (D/C) | -57 | 76 | 206 | 0 | 1.80 | 0.00 | | 1.80 | |
| 765 KV Gaya-Balia | -23 | 146 | 207 | 0 | 1.69 | 0.00 | | 1.69 | |
| 765 KV Gaya-Fatehpur | 39 | 86 | 367 | 0 | 4.34 | 0.00 | | 4.34 | |
| 220 KV Pusaull-Sahupuri | 160 | 131 | 168 | 0 | 2.66 | 0.00 | | 2.66 | |
| 132 KV K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.48 | 0.00 | | 0.48 | |
| 132 KV Son Ngr-Rihand | -27 | -24 | 0 | 30 | 0.00 | 0.60 | | -0.60 | |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | | 0.00 | |
| 765 KV Sasaram - Fatehpur | -146 | -71 | 196 | 173 | 0.30 | 0.00 | | 0.30 | |
| 400 KV Barh -GKP (D/C) | 288 | 302 | 368 | 0 | 7.37 | 0.00 | | 7.37 | |
| Sub Total ER | 876 | 1573 | | | 41.57 | 0.60 | | 40.96 | |
| +/- 800 KV BiswanathCharialli-Agra | -500 | -500 | 0 | 500 | 0.00 | 12.16 | | -12.16 | |
| Sub Total NER | -500 | -500 | | | 0.00 | 12.16 | | -12.16 | |
| Total IR Exch | 5146 | 5727 | | | 174.77 | 22.66 | | 152.10 | |

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 | Total | Through ER | Through WR | Through ER | Through WR |
| 31.54 | 0.81 | 32.35 | 3.89 | -14.89 | 3.13 | 28.59 | 5.88 | -5.88 | |
| 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 | Total |
| 45.25 | 104.04 | 149.29 | 28.80 | 123.30 | 152.10 | -16.45 | 19.26 | 2.81 | |

V(C). Inter National Exchange with Nepal [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 | | | |
| | | | | | | | | | |
| 132 KV Tanakpur - Mahendarnagar | -31 | -29 | 0 | 33 | 0 | 1 | | -0.73 | |

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 | 0.94 | 8.43 | 28.79 | 67.41 | 57.85 | 10.17 | 3.22 | 0.02 | 0.00 |

| ----- 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 | | | | | |
| 50.20 | 12.02 | 49.64 | 7.52 | 49.95 | 0.119 | 0.096 | 50.12 | 0.00 |

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 | 404 | 04:26 | 396 | 09:37 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 423 | 05:01 | 403 | 18:39 | 0.0 | 0.0 | 7.7 | 0.0 |
| Bareilly(PG)400kV | 400 | 421 | 05:01 | 391 | 15:49 | 0.0 | 0.0 | 0.1 | 0.0 |
| Kanpur | 400 | 411 | 04:20 | 396 | 09:44 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 425 | 03:45 | 399 | 09:44 | 0.0 | 0.0 | 20.1 | 0.0 |
| Ballabgarh | 400 | 429 | 03:35 | 401 | 09:45 | 0.0 | 0.0 | 43.7 | 0.0 |
| Bawana | 400 | 428 | 21:23 | 402 | 09:44 | 0.0 | 0.0 | 26.4 | 0.0 |
| Bassi | 400 | 426 | 20:57 | 390 | 09:37 | 0.0 | 0.0 | 8.8 | 0.0 |
| Hissar | 400 | 422 | 21:20 | 395 | 09:40 | 0.0 | 0.0 | 3.7 | 0.0 |
| Moga | 400 | 419 | 21:13 | 398 | 10:07 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 426 | 21:01 | 397 | 11:18 | 0.0 | 0.0 | 18.7 | 0.0 |
| Nalagarh | 400 | 437 | 03:58 | 404 | 10:11 | 0.0 | 0.0 | 44.1 | 20.4 |
| Kishenpur | 400 | 425 | 02:51 | 396 | 18:23 | 0.0 | 0.0 | 15.6 | 0.0 |
| Wagoora | 400 | 406 | 02:52 | 371 | 18:49 | 18.2 | 47.7 | 0.0 | 0.0 |
| Amritsar | 400 | 426 | 00:16 | 405 | 10:14 | 0.0 | 0.0 | 23.6 | 0.0 |
| Kashipur | 400 | 421 | 05:02 | 408 | 09:40 | 0.0 | 0.0 | 0.4 | 0.0 |
| Hamirpur | 400 | 428 | 03:47 | 397 | 09:40 | 0.0 | 0.0 | 38.8 | 0.0 |
| Rishikesh | 400 | 411 | 03:59 | 376 | 10:14 | 5.7 | 25.8 | 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 | 772 | 19:56 | 733 | 09:42 | 0.0 | 5.9 | 0.0 | 0.0 |
| Balia | 765 | 778 | 05:01 | 741 | 10:13 | 0.0 | 0.1 | 0.0 | 0.0 |
| Moga | 765 | 796 | 20:58 | 751 | 10:12 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 791 | 19:58 | 741 | 09:44 | 0.0 | 0.1 | 0.0 | 0.0 |
| Bhiwani | 765 | 806 | 20:56 | 752 | 09:37 | 0.0 | 0.0 | 12.0 | 0.0 |
| Unnao | 765 | 770 | 05:01 | 731 | 10:07 | 0.0 | 23.7 | 0.0 | 0.0 |
| Lucknow | 765 | 785 | 05:01 | 741 | 10:14 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 812 | 20:57 | 754 | 09:42 | 0.0 | 0.0 | 19.8 | 0.0 |
| Jhatikara | 765 | 0 | 00:00 | 9999 | 00:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly 765 kV | 765 | 0 | 00:00 | 9999 | 00:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 787 | 20:54 | 754 | 09:36 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 795 | 20:54 | 741 | 09:42 | 0.0 | 0.9 | 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 | 507.46 | 1426.07 | 504.40 | 1285.56 | 145.46 | 387.94 |
| Pong | 426.72 | 384.05 | 416.71 | 743.22 | 411.20 | 534.70 | 51.48 | 304.43 |
| Tehri | 829.79 | 740.04 | 813.75 | 877.00 | 820.30 | 1008.67 | 71.60 | 141.00 |
| Koteshwar | 612.50 | 598.50 | 610.80 | 4.95 | 609.43 | 4.29 | 141.00 | 147.64 |
| Chamera-I | 760.00 | 748.75 | 0.00 | 0.00 | 0.00 | 0.00 | 65.24 | 49.41 |
| Rihand | 268.22 | 252.98 | 850.20 | 258.70 | 853.30 | 309.60 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Jawahar Sagar | 298.70 | 295.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RSD | 527.91 | 487.91 | 506.68 | 3.26 | 509.83 | 2.06 | 83.03 | 166.82 |

* 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 | -673 | 284 | 0 | -600 | 279 | 0 | -12.63 | 6.56 | -6.07 |
| Delhi | -928 | -145 | 0 | -498 | 327 | 0 | -15.31 | 5.73 | -9.58 |
| Haryana | -320 | 212 | 0 | -515 | 286 | 0 | -8.80 | 4.77 | -4.03 |
| HP | 138 | 44 | 0 | 231 | -392 | 0 | 5.58 | -2.40 | 3.19 |
| J&K | 425 | -76 | 0 | 358 | -101 | 0 | 9.66 | -1.07 | 8.60 |
| CHD | -30 | 0 | 0 | 0 | -45 | 0 | -0.24 | -0.33 | -0.57 |
| Rajasthan | 0 | 585 | 2 | 0 | 268 | 2 | 9.34 | 14.89 | 24.23 |
| UP | 109 | 0 | 0 | -283 | 0 | 0 | -3.85 | 0.00 | -3.85 |
| Uttarakhand | 194 | 231 | 0 | 194 | 196 | 0 | 4.66 | 6.81 | 11.47 |
| Total | -1085 | 1136 | 2 | -1113 | 819 | 2 | -11.59 | 34.97 | 23.38 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -196 | -673 | 291 | 192 | 0 | 0 |
| Delhi | -449 | -928 | 650 | -182 | 0 | 0 |
| Haryana | -306 | -515 | 312 | -105 | 0 | 0 |
| HP | 305 | 138 | 44 | -695 | 0 | 0 |
| J&K | 425 | 358 | 0 | -177 | 0 | 0 |
| CHD | 0 | -30 | 0 | -80 | 0 | 0 |
| Rajasthan | 718 | 0 | 1374 | -173 | 2 | 2 |
| UP | 150 | -330 | 0 | 0 | 0 | 0 |
| Uttarakhand | 194 | 194 | 440 | 158 | 0 | 0 |

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 21.11.2015 :
Normal.

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 :