

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 15.11.2015
Date of Reporting : 16.11.2015

I. Regional Availability/Demand:

| Evening Peak (19:00 Hrs) MW | | | | Off Peak (03:00 Hrs) MW | | | | Day Energy (Net MU) | |
|-----------------------------|----------|-------------|------------|-------------------------|----------|-------------|------------|---------------------|----------|
| Demand Met | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage |
| 36144 | 1548 | 37692 | 49.95 | 29377 | 766 | 30143 | 50.00 | 773.5 | 34.08 |

* 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:

UI [OD:(+ve), UD:(-ve)]

| 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 | 27.85 | 10.15 | | 38.01 | 51.55 | 50.95 | -0.60 | 88.96 | 0.00 |
| Haryana | 34.78 | 0.51 | | 35.29 | 64.41 | 63.71 | -0.69 | 99.01 | 0.00 |
| Rajasthan | 114.55 | 4.59 | 5.02 | 124.16 | 76.32 | 77.31 | 0.99 | 201.46 | 0.00 |
| Delhi | 14.25 | | | 14.25 | 41.24 | 41.56 | 0.33 | 55.81 | 0.01 |
| UP | 111.45 | 5.50 | | 116.95 | 113.56 | 114.45 | 0.90 | 231.40 | 24.41 |
| Uttarakhand | | 7.97 | | 7.97 | 21.13 | 23.27 | 2.14 | 31.24 | 0.00 |
| HP | | 5.55 | | 5.55 | 14.98 | 16.11 | 1.14 | 21.66 | 0.00 |
| J & K | | 9.25 | 0.00 | 9.25 | 31.88 | 31.71 | -0.17 | 40.96 | 9.65 |
| Chandigarh | | | | 0.00 | 3.19 | 2.99 | 0.27 | 2.99 | 0.00 |
| Total | 302.89 | 43.52 | 5.02 | 351.43 | 418.24 | 422.07 | 4.30 | 773.49 | 34.08 |

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

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

| 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 | 4097 | 0 | -55 | -318 | 3111 | 0 | -82 | -308 | 4480 |
| Haryana | 5714 | 0 | -200 | -289 | 3034 | 0 | -73 | -126 | 5714 |
| Rajasthan | 8522 | 0 | -260 | 467 | 8220 | 0 | 171 | 740 | 9626 |
| Delhi | 2873 | 0 | -155 | -268 | 1756 | 0 | 130 | -828 | 2886 |
| UP | 10138 | 1060 | -219 | -253 | 9816 | 490 | 106 | 93 | 10334 |
| Uttarakhand | 1577 | 0 | 23 | 186 | 1101 | 0 | 151 | 210 | 1597 |
| HP | 1108 | 0 | 77 | -270 | 679 | 0 | 18 | 153 | 1155 |
| J&K | 1953 | 488 | 93 | 259 | 1566 | 276 | -9 | 276 | 1953 |
| Chandigarh | 161 | 0 | -14 | -80 | 93 | 0 | 5 | -30 | 161 |
| Total | 36144 | 1548 | -709 | -565 | 29377 | 766 | 417 | 180 | 36144 |

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

Diversity is 1.05

III. Regional Entities :

UI [OG:(+ve), UG:(-ve)]

| A. NTPC | Station/ Constituent | Inst. Capacity (Effective) MW | Declared Capacity(MW) | Peak MW (Gross) | Off Peak MW (Gross) | Energy (Net MU) | Average Sentout(MW) | Schedule Net MU | UI Net MU |
|---|---------------------------------|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
| | | | | | | | | | |
| Rihand I STPS (2*500) | 1000 | 876 | 724 | 880 | 19.45 | 810 | 19.57 | -0.13 | |
| Rihand II STPS (2*500) | 1000 | 963 | 757 | 779 | 20.47 | 853 | 20.29 | 0.19 | |
| Rihand III STPS (2*500) | 1000 | 970 | 861 | 904 | 21.12 | 880 | 21.25 | -0.13 | |
| Dadri I STPS (4*210) | 840 | 810 | 150 | 149 | 3.34 | 139 | 3.36 | -0.02 | |
| Dadri II STPS (2*490) | 980 | 980 | 340 | 336 | 8.27 | 345 | 8.82 | -0.54 | |
| Unchahar I TPS (2*210) | 420 | 406 | 283 | 306 | 6.58 | 274 | 7.42 | -0.84 | |
| Unchahar II TPS (2*210) | 420 | 404 | 263 | 260 | 6.12 | 255 | 6.88 | -0.76 | |
| Unchahar III TPS (1*220) | 210 | 202 | 135 | 134 | 3.14 | 131 | 3.51 | -0.37 | |
| ISTPP (Jhajjar) (3*500) | 1500 | 1500 | 628 | 627 | 15.92 | 663 | 15.35 | 0.57 | |
| Dadri GPS (4*130.19+2*154.51) | 830 | 630 | 532 | 531 | 12.50 | 521 | 12.96 | -0.46 | |
| Anta GPS (3*88.71+1*153.2) | 419 | 419 | 191 | 199 | 5.03 | 210 | 5.48 | -0.45 | |
| Auraiya GPS (4*111.19+2*109.30) | 663 | 652 | 283 | 298 | 6.67 | 278 | 6.94 | -0.27 | |
| Dadri Solar | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.02 | 0.00 | |
| Unchahar Solar | 10 | 1 | 0 | 0 | 0.03 | 1 | 0.03 | 0.00 | |
| Singrauli Solar | 15 | 1 | 0 | 0 | 0.04 | 2 | 0.04 | 0.00 | |
| KHEP | 800 | 655 | 426 | 0 | 3.33 | 139 | 3.20 | 0.13 | |
| Sub Total (A) | 12112 | 11373 | 7307 | 7314 | 176 | 7348 | 179 | -3 | |
| B. NPC | NAPS (2*220) | 440 | 192 | 225 | 226 | 4.57 | 190 | 4.61 | -0.04 |
| RAPS- B (2*220) | 440 | 393 | 435 | 439 | 9.41 | 392 | 9.43 | -0.02 | |
| RAPS- C (2*220) | 440 | 410 | 452 | 454 | 9.74 | 406 | 9.84 | -0.10 | |
| Sub Total (B) | 1320 | 995 | 1112 | 1119 | 23.72 | 988 | 23.88 | -0.16 | |
| C. NHPC | Chamera I HPS (3*180) | 540 | 540 | 552 | 0 | 1.72 | 72 | 1.62 | 0.11 |
| Chamera II HPS (3*100) | 300 | 194 | 104 | 0 | 1.78 | 74 | 1.78 | 0.00 | |
| Chamera III HPS (3*77) | 231 | 229 | 190 | 0 | 1.05 | 44 | 0.97 | 0.08 | |
| Bairasuli HPS(3*60) | 180 | 179 | 174 | 0 | 0.81 | 34 | 0.75 | 0.06 | |
| Salal-HPS (6*115) | 690 | 183 | 338 | 215 | 5.30 | 221 | 4.39 | 0.91 | |
| Tanakpur-HPS (3*40) | 94 | 30 | 30 | 30 | 0.78 | 33 | 0.71 | 0.07 | |
| Uri-I HPS (4*120) | 480 | 464 | 469 | 470 | 11.50 | 479 | 11.13 | 0.37 | |
| Uri-II HPS (4*60) | 240 | 238 | 240 | 238 | 5.75 | 240 | 5.72 | 0.04 | |
| Dhauliganga-HPS (4*70) | 280 | 280 | 279 | 0 | 1.26 | 52 | 1.15 | 0.11 | |
| Dulhasti-HPS (3*130) | 390 | 387 | 389 | 0 | 4.66 | 194 | 4.50 | 0.16 | |
| Sewa-II HPS (3*40) | 120 | 119 | 125 | 0 | 0.69 | 29 | 0.60 | 0.09 | |
| Parbati 3 (4*130) | 520 | 130 | 130 | 0 | 0.81 | 34 | 0.39 | 0.42 | |
| Sub Total (C) | 4065 | 2972 | 3022 | 953 | 36 | 1504 | 34 | 2 | |
| D.SJVNL | NJPC (6*250) | 1500 | 1605 | 1519 | 0 | 10.60 | 442 | 10.67 | -0.07 |
| Rampur HEP (6*68.67) | 412 | 432 | 432 | 0 | 3.07 | 128 | 2.97 | 0.10 | |
| Sub Total (D) | 1912 | 2037 | 1951 | 0 | 13.67 | 570 | 13.64 | 0.03 | |
| E. THDC | Tehri HPS (4*250) | 1000 | 1068 | 1050 | 0 | 5.37 | 224 | 5.26 | 0.11 |
| Koteshwar HPS (4*100) | 400 | 92 | 102 | 92 | 2.23 | 93 | 2.20 | 0.03 | |
| Sub Total (E) | 1400 | 1160 | 1152 | 92 | 7.60 | 317 | 7.46 | 0.13 | |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 576 | 1043 | 369 | 13.75 | 573 | 13.81 | -0.06 |
| Dehar HPS (6*165) | 990 | 176 | 495 | 140 | 4.39 | 183 | 4.22 | 0.18 | |
| Pong HPS (6*66) | 396 | 200 | 318 | 126 | 4.65 | 194 | 4.79 | -0.15 | |
| Sub Total (F) | 2765 | 951 | 1856 | 635 | 22.79 | 950 | 22.82 | -0.03 | |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 88 | 0 | 0.72 | 30 | 0.70 | 0.03 |
| KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 830 | 0 | 5.69 | 237 | 5.76 | -0.07 | |
| Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.21 | 9 | 0.26 | -0.05 | |
| Shree Cement TPS (2*150) | 300 | 0 | 262 | 262 | 6.21 | 259 | 6.26 | -0.05 | |
| Budhil HPS(IPP) (2*35) | 70 | 0 | 75 | 0 | 0.34 | 14 | 0.30 | 0.04 | |
| Sub Total (G) | 1662 | 0 | 1255 | 262 | 13.18 | 549 | 13.28 | -0.10 | |
| H. Total Regional Entities (A-G) | 25237 | 19488 | 17654 | 10376 | 293.42 | 12226 | 293.88 | -0.45 | |

| 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 | 3.51 | 146 | |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 90 | 90 | 1.92 | 80 | |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 205 | 205 | 4.49 | 187 | |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 | |
| | Rajpura (2*700) | 1400 | 592 | 699 | 17.94 | 747 | |
| | Talwandi Saboo (2*660) | 1320 | 0 | 0 | 0.00 | 0 | |
| | Thermal (Total) | 5360 | 1047 | 1154 | 27.85 | 1161 | |
| | Total Hydro | 1000 | 403 | 430 | 10.15 | 423 | |
| | Total Punjab | 6360 | 1450 | 1584 | 38.01 | 1584 | |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 0 | 0 | 0.00 | 0 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 569 | 455 | 11.37 | 474 | |
| Faridabad GPS (NTPC) | | 432 | 199 | 161 | 4.13 | 172 | |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 563 | 386 | 9.60 | 400 | |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 | |
| Jhajjar(CLP) (2*660) | | 1320 | 563 | 375 | 9.69 | 404 | |
| Thermal (Total) | | 4944 | 1894 | 1377 | 34.78 | 1449 | |
| Total Hydro | | 62 | 22 | 19 | 0.51 | 21 | |
| Total Haryana | | 5006 | 1916 | 1396 | 35.29 | 1471 | |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 1007 | 1033 | 25.31 | 1055 |
| | suratgarh TPS (6*250) | 1500 | 411 | 420 | 10.11 | 421 | |
| | Chabra TPS (4*250) | 1000 | 564 | 488 | 12.99 | 541 | |
| | Dholpur GPS (3*110) | 330 | 73 | 0 | 0.57 | 24 | |
| | Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 203 | 209 | 5.00 | 208 | |
| | RAPS A (NPC) (1*100+1*200) | 300 | 160 | 160 | 3.95 | 165 | |
| | Barsingar (NLC) (2*125) | 250 | 188 | 186 | 4.34 | 181 | |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 | |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 592 | 720 | 15.88 | 662 | |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 | |
| | Kalisindh Thermal(2*600) | 1200 | 257 | 475 | 10.08 | 420 | |
| | Kawai(Adani) (2*660) | 1320 | 1147 | 1190 | 26.33 | 1097 | |
| | Thermal (Total) | 8876 | 4602 | 4881 | 115 | 4773 | |
| | Total Hydro | 550 | 180 | 180 | 4.59 | 191 | |
| | Wind power | 3214 | 169 | 120 | 4.05 | 169 | |
| | Biomass | 99 | 27 | 27 | 0.65 | 27 | |
| | Solar | 730 | 6 | 0 | 0.32 | 13 | |
| | Renewable/Others (Total) | 4043 | 202 | 147 | 5.02 | 209 | |
| | Total Rajasthan | 13469 | 4984 | 5208 | 124.16 | 5173 | |
| | UP | Anpara TPS (3*210+2*500) | 1364 | 1358 | 1364 | 32.60 | 1358 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 417 | 411 | 9.90 | 413 | |
| Paricha TPS (2*110+2*220+2*250) | | 1140 | 645 | 653 | 15.00 | 625 | |
| Panki TPS (2*105) | | 210 | 68 | 68 | 1.50 | 63 | |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 542 | 521 | 12.60 | 525 | |
| Tanda TPS (NTPC) (4*110) | | 440 | 2771 | 280 | 6.95 | 290 | |
| Roza TPS (IPP) (4*300) | | 1200 | 194 | 198 | 5.00 | 208 | |
| Anpara-C (IPP) (2*600) | | 1200 | 1081 | 1083 | 24.20 | 1008 | |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 57 | 57 | 1.30 | 54 | |
| 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 | 7133 | 4635 | 109 | 4544 | |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 122 | 112 | 2.70 | 113 | |
| Alaknanda(4*82.5) | | 330 | 72 | 789 | 1.90 | 79 | |
| Other Hydro | | 527 | 62 | 21 | 0.90 | 38 | |
| Cogeneration | | 981 | 100 | 100 | 2.40 | 100 | |
| Total UP | | 12227 | 7489 | 5657 | 117 | 4873 | |
| Uttarakhand | | Total Hydro | 1398 | 465 | 236 | 7.97 | 332 |
| | | Total Uttarakhand | 1398 | 465 | 236 | 7.97 | 332 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | -0.02 | -1 | |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 36 | 40 | 0.90 | 38 | |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 155 | 154 | 3.72 | 155 | |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 | |
| | Bawana GPS (4*216+2*253) | 1370 | 251 | 252 | 6.05 | 252 | |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 165 | 165 | 3.59 | 150 | |
| | Thermal (Total) | 2917 | 607 | 611 | 14.25 | 594 | |
| | Total Delhi | 2917 | 607 | 611 | 14.25 | 594 | |
| HP | Baspa HPS (IPP) (3*100) | 300 | 91 | 61 | 1.43 | 60 | |
| | Malana HPS (IPP) (2*43) | 86 | 47 | 0 | 0.32 | 13 | |
| | Other Hydro | 878 | 175 | 136 | 3.79 | 158 | |
| | Total HP | 1264 | 313 | 197 | 5.55 | 231 | |
| J & K | Baglihar HPS (IPP) (3*150) | 450 | 300 | 300 | 7.20 | 300 | |
| | Other Hydro/IPP | 560 | 75 | 89 | 2.05 | 85 | |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 | |
| | Total J & K | 1200 | 375 | 389 | 9.25 | 385 | |
| Total State Control Area Generation | | 43841 | 17599 | 15278 | 351.43 | 14643 | |
| J. Net Inter Regional Exchange (Import +ve)/Export (-ve) | | | 4491 | 5726 | 145.98 | 6083 | |
| Total Regional Availability(Gross) | | 69078 | 39744 | 31380 | 790.83 | 32951 | |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| Regional Entities Hydro | 12234 | 9324 | 1680 | 90.12 | 3755 |
| State Control Area Hydro | 6581 | 2014 | 2373 | 44 | 1813 |
| Total Regional Hydro | 18815 | 11338 | 4053 | 133.64 | 5568 |

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 | | -300 | | 0 | 300 | 0.00 | 3.46 | -3.46 |
| 765 KV Gwalior-Agra (D/C) | 1947 | | 2373 | | 2916 | 0 | 59.58 | 0.00 | 59.58 |
| 400 KV Zarda-Kankroli | -56 | | -131 | | 68 | 184 | 0.00 | 1.98 | -1.98 |
| 400 KV Zarda-Bhinmal | 25 | | -15 | | 172 | 153 | 0.34 | 0.00 | 0.34 |
| 220 KV Auraiya-Malanpur | -152 | | -148 | | 0 | 199 | 0.00 | 2.24 | -2.24 |
| 220 KV Badod-Kota/Morak | -101 | | -133 | | 0 | 186 | 0.00 | 2.61 | -2.61 |
| Mundra-Mohinderorah(HVDC Bipole) | 1498 | | 2003 | | 2006 | 0 | 40.95 | 0.00 | 40.95 |
| 400 KV Vindhychal - Rihand | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 927 | | 873 | | 1453 | 0 | 25.21 | 0.00 | 25.21 |
| Sub Total WR | 4038 | | 4522 | | | | 126.08 | 10.30 | 115.78 |
| Pusaull Bypass/HVDC | 350 | | 50 | | 350 | 0 | 4.85 | 0.00 | 4.85 |
| 400 KV MZP -GKP (D/C) | 60 | | 308 | | 508 | 0 | 6.39 | 0.00 | 6.39 |
| 400 KV Patna-Balia(D/C) X 2 | 202 | | 378 | | 462 | 0 | 8.52 | 0.00 | 8.52 |
| 400 KV B'Sharif-Balia (D/C) | 56 | | 133 | | 265 | 0 | 2.63 | 0.00 | 2.63 |
| 765 KV Gaya-Balia | 35 | | 201 | | 258 | 0 | 2.18 | 0.00 | 2.18 |
| 765 KV Gaya-Fatehpur | 4 | | 91 | | 290 | 21 | 3.57 | 0.00 | 3.57 |
| 220 KV Pusaull-Sahupuri | 98 | | 120 | | 186 | 0 | 2.80 | 0.00 | 2.80 |
| 132 KV K'nasa-Sahupuri | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 132 KV Son Ngr-Rihand | -26 | | -25 | | 0 | 40 | 0.00 | 0.59 | -0.59 |
| 132 KV Garhwa-Rihand | 0 | | 0 | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -176 | | 14 | | 219 | 224 | 0.32 | 0.00 | 0.32 |
| 400 KV Barh -GKP (D/C) | 250 | | 334 | | 410 | 0 | 7.94 | 0.00 | 7.94 |
| Sub Total ER | 853 | | 1604 | | | | 39.21 | 0.59 | 38.61 |
| +/- 800 KV BiswanathCharialli-Agra | -400 | | -400 | | 0 | 400 | 0.00 | 8.41 | -8.41 |
| Sub Total NER | -400 | | -400 | | | | 0.00 | 8.41 | -8.41 |
| Total IR Exch | 4491 | | 5726 | | | | 165.29 | 19.30 | 145.98 |

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 |
| 29.12 | 0.97 | 30.08 | 3.26 | -17.46 | 8.70 | 13.09 | 6.01 | -6.01 | |
| Total IR Schedule (MU) | | | Total IR Actual (MU) | | | Net IR UI (MU) | | | |
| Through ER | Through WR Incids Mndra | Total | Through ER(including NER) | Through WR | Total | Through ER(including NER) | Through WR | Total | |
| 48.05 | 93.08 | 141.13 | 30.20 | 115.78 | 145.98 | -17.85 | 22.70 | 4.85 | |

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 | -30 | | -28 | | 0 | 33 | 0 | 1 | -0.72 |

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 | 0.83 | 8.21 | 50.62 | 66.93 | 15.59 | 8.62 | 1.18 | 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 | | | | | |
| 50.26 | 21.58 | 49.74 | 5.49 | 50.00 | 0.062 | 0.079 | 0.00 | 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 | 408 | 03:36 | 401 | 18:47 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 420 | 07:12 | 394 | 17:54 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly(PG)400kV | 400 | 420 | 03:03 | 393 | 18:09 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 411 | 02:57 | 401 | 18:07 | 0.0 | 0.0 | 0.3 | 0.0 |
| Dadri | 400 | 428 | 02:55 | 407 | 18:07 | 0.0 | 0.0 | 61.0 | 0.0 |
| Ballabgarh | 400 | 433 | 02:57 | 411 | 18:08 | 0.0 | 0.0 | 87.1 | 11.1 |
| Bawana | 400 | 432 | 03:01 | 410 | 18:06 | 0.0 | 0.0 | 84.8 | 4.2 |
| Bassi | 400 | 428 | 21:31 | 405 | 05:52 | 0.0 | 0.0 | 7.5 | 0.0 |
| Hissar | 400 | 426 | 03:01 | 405 | 18:07 | 0.0 | 0.0 | 24.5 | 0.0 |
| Moga | 400 | 429 | 03:02 | 406 | 18:06 | 0.0 | 0.0 | 30.0 | 0.0 |
| Abdullapur | 400 | 429 | 02:22 | 404 | 18:38 | 0.0 | 0.0 | 70.3 | 0.0 |
| Nalagarh | 400 | 435 | 00:00 | 411 | 18:39 | 0.0 | 0.0 | 86.7 | 14.3 |
| Kishenpur | 400 | 429 | 03:00 | 398 | 18:38 | 0.0 | 0.0 | 19.9 | 0.0 |
| Wagoora | 400 | 408 | 03:03 | 375 | 18:09 | 10.4 | 34.2 | 0.0 | 0.0 |
| Amritsar | 400 | 432 | 03:03 | 408 | 18:36 | 0.0 | 0.0 | 70.1 | 3.8 |
| Kashipur | 400 | 421 | 03:03 | 409 | 18:04 | 0.0 | 0.0 | 0.1 | 0.0 |
| Hamirpur | 400 | 427 | 01:31 | 404 | 18:39 | 0.0 | 0.0 | 56.2 | 0.0 |
| Rishikesh | 400 | 418 | 02:22 | 387 | 18:08 | 0.0 | 1.1 | 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 | 775 | 01:28 | 732 | 18:08 | 0.0 | 5.9 | 0.0 | 0.0 |
| Balia | 765 | 771 | 07:07 | 732 | 18:08 | 0.0 | 6.6 | 0.0 | 0.0 |
| Moga | 765 | 810 | 03:03 | 767 | 18:09 | 0.0 | 0.0 | 24.0 | 0.0 |
| Agra | 765 | 794 | 03:02 | 753 | 18:08 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 811 | 02:32 | 775 | 18:06 | 0.0 | 0.0 | 35.9 | 0.0 |
| Unnao | 765 | 770 | 16:02 | 737 | 18:07 | 0.0 | 4.2 | 0.0 | 0.0 |
| Lucknow | 765 | 778 | 07:09 | 738 | 18:08 | 0.0 | 1.0 | 0.0 | 0.0 |
| Meerut | 765 | 816 | 02:56 | 768 | 18:08 | 0.0 | 0.0 | 46.1 | 0.0 |
| Jhatikara | 765 | 817 | 02:58 | 751 | 18:11 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly 765 kV | 765 | 772 | 15:12 | 760 | 18:14 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 784 | 21:30 | 763 | 08:27 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 795 | 21:34 | 767 | 17:56 | 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 | 508.05 | 1455.60 | 505.10 | 1312.37 | 182.05 | 380.44 |
| Pong | 426.72 | 384.05 | 417.28 | 768.49 | 411.88 | 555.85 | 50.89 | 281.47 |
| Tehri | 829.79 | 740.04 | 815.00 | 902.26 | 821.65 | 1037.11 | 64.65 | 123.00 |
| Koteshwar | 612.50 | 598.50 | 609.91 | 4.44 | 609.78 | 4.45 | 123.00 | 147.00 |
| Chamera-I | 760.00 | 748.75 | 768.66 | 0.00 | 0.00 | 0.00 | 60.97 | 46.90 |
| Rihand | 268.22 | 252.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 1139.41 | 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 | 508.02 | 3.73 | 510.11 | 1.88 | 79.45 | 179.11 |

* 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 | -615 | 306 | 0 | -595 | 277 | 0 | -11.45 | 7.18 | -4.27 |
| Delhi | -694 | -134 | 0 | -496 | 227 | 0 | -13.37 | 2.14 | -11.22 |
| Haryana | -317 | 191 | 0 | -512 | 223 | 0 | -9.14 | 2.34 | -6.79 |
| HP | 61 | 92 | 0 | 208 | -478 | 0 | 4.10 | -2.87 | 1.23 |
| J&K | 376 | -101 | 0 | 360 | -101 | 0 | 8.66 | -1.31 | 7.34 |
| CHD | -30 | 0 | 0 | 0 | -80 | 0 | -0.24 | -0.36 | -0.60 |
| Rajasthan | 0 | 740 | 0 | 0 | 467 | 0 | 6.93 | 18.94 | 25.87 |
| UP | 93 | 0 | 0 | -253 | 0 | 0 | -3.58 | 0.00 | -3.58 |
| Uttarakhand | 195 | 16 | 0 | 195 | -9 | 0 | 4.67 | 2.47 | 7.15 |
| Total | -931 | 1110 | 0 | -1093 | 528 | 0 | -13.42 | 28.53 | 15.11 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -190 | -615 | 322 | 229 | 0 | 0 |
| Delhi | -492 | -694 | 406 | -199 | 0 | 0 |
| Haryana | -302 | -549 | 240 | -441 | 0 | 0 |
| HP | 232 | 61 | 92 | -786 | 0 | 0 |
| J&K | 376 | 340 | 0 | -176 | 0 | 0 |
| CHD | 0 | -30 | 0 | -80 | 0 | 0 |
| Rajasthan | 533 | 0 | 1616 | 432 | 0 | 0 |
| UP | 128 | -294 | 0 | 0 | 0 | 0 |
| Uttarakhand | 195 | 195 | 300 | -91 | 0 | 0 |

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 15.11.2015 :
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 :