

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सख्यक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 11.02.2016
Date of Reporting : 12.02.2016



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 |
| 38810 | 1958 | 40768 | 50.05 | 30925 | 440 | 31364 | 50.04 | 840.6 | 42.70 |

* 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 | 35.76 | 7.23 | | 42.99 | 56.35 | 56.43 | 0.08 | 99.43 | 0.00 |
| Haryana | 46.58 | 0.33 | | 46.91 | 74.30 | 74.36 | 0.06 | 121.27 | 0.00 |
| Rajasthan | 124.90 | 4.75 | 8.58 | 138.23 | 73.86 | 78.69 | 4.83 | 216.92 | 0.14 |
| Delhi | 13.79 | | | 13.79 | 47.17 | 47.32 | 0.15 | 61.11 | 0.01 |
| UP | 133.07 | 4.32 | | 137.39 | 100.23 | 102.74 | 2.50 | 240.13 | 34.18 |
| Uttarakhand | | 10.11 | | 10.11 | 24.55 | 26.34 | 1.79 | 36.45 | 0.00 |
| HP | | 3.54 | | 3.54 | 21.67 | 22.38 | 0.71 | 25.91 | 0.00 |
| J & K | | 4.35 | 0.00 | 4.35 | 33.34 | 31.42 | -1.92 | 35.77 | 8.38 |
| Chandigarh | | | | 0.00 | 3.49 | 3.64 | 0.27 | 3.64 | 0.00 |
| Total | 354.10 | 34.63 | 8.58 | 397.31 | 434.96 | 443.30 | 8.46 | 840.61 | 42.70 |

* 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 | 4913 | 0 | 149 | -420 | 3188 | 0 | 64 | 118 | 5318 |
| Haryana | 6468 | 0 | -227 | -10 | 3661 | 0 | 152 | -31 | 6468 |
| Rajasthan | 8859 | 0 | 145 | 695 | 8726 | 0 | 94 | 692 | 10413 |
| Delhi | 2942 | 0 | -228 | -446 | 1461 | 0 | -70 | -1527 | 3496 |
| UP | 10602 | 1505 | -36 | -604 | 10259 | 180 | 415 | 135 | 10650 |
| Uttarakhand | 1806 | 0 | 1 | 527 | 1265 | 0 | 139 | 350 | 1964 |
| HP | 1220 | 0 | 25 | 370 | 800 | 0 | 103 | 304 | 1451 |
| J&K | 1811 | 453 | 9 | 805 | 1472 | 260 | -69 | 724 | 1818 |
| Chandigarh | 189 | 0 | 7 | 0 | 93 | 0 | 4 | -31 | 207 |
| Total | 38810 | 1958 | -155 | 917 | 30925 | 440 | 832 | 736 | 39537 |

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

Diversity is 1.06

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 | 1870 | 1988 | 1658 | 43.13 | 1797 | 43.26 | -0.13 |
| | Rihand I STPS (2*500) | 1000 | 862 | 883 | 681 | 17.03 | 710 | 17.53 | -0.51 |
| | Rihand II STPS (2*500) | 1000 | 964 | 920 | 723 | 18.88 | 787 | 19.55 | -0.67 |
| | Rihand III STPS (2*500) | 1000 | 974 | 945 | 789 | 19.79 | 825 | 20.95 | -1.16 |
| | Dadri I STPS (4*210) | 840 | 815 | 567 | 556 | 13.16 | 548 | 13.72 | -0.56 |
| | Dadri II STPS (2*490) | 980 | 980 | 669 | 679 | 17.17 | 715 | 17.58 | -0.41 |
| | Unchahar I TPS (2*210) | 420 | 406 | 428 | 307 | 7.84 | 327 | 8.13 | -0.29 |
| | Unchahar II TPS (2*210) | 420 | 404 | 373 | 298 | 7.29 | 304 | 7.46 | -0.17 |
| | Unchahar III TPS (1*220) | 210 | 202 | 150 | 150 | 3.54 | 147 | 3.63 | -0.09 |
| | ISTPP (Jhajhar) (3*500) | 1500 | 1475 | 919 | 622 | 15.48 | 645 | 15.77 | -0.29 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 816 | 494 | 494 | 11.37 | 474 | 11.69 | -0.32 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 415 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 656 | 296 | 297 | 6.85 | 286 | 7.00 | -0.15 |
| | 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 | 2 | 0 | 0 | 0.04 | 2 | 0.04 | 0.00 |
| | KHEP | 800 | 666 | 653 | 0 | 1.97 | 82 | 1.97 | 0.01 |
| Sub Total (A) | 12112 | 11509 | 9285 | 7254 | 184 | 7649 | 188 | -5 | |
| B. NPC | NAPS (2*220) | 440 | 410 | 446 | 447 | 9.81 | 409 | 9.84 | -0.03 |
| | RAPS- B (2*220) | 440 | 386 | 425 | 432 | 9.24 | 385 | 9.26 | -0.02 |
| | RAPS- C (2*220) | 440 | 425 | 452 | 454 | 9.89 | 412 | 10.20 | -0.31 |
| | Sub Total (B) | 1320 | 1221 | 1323 | 1333 | 28.94 | 1206 | 29.30 | -0.36 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 360 | 360 | 0 | 2.32 | 97 | 2.20 | 0.12 |
| | Chamera II HPS (3*100) | 300 | 200 | 203 | 0 | 1.11 | 46 | 1.00 | 0.11 |
| | Chamera III HPS (3*77) | 231 | 155 | 154 | 0 | 0.49 | 21 | 0.46 | 0.03 |
| | Bairasuli HPS(3*60) | 180 | 167 | 182 | 0 | 0.46 | 19 | 0.45 | 0.02 |
| | Salal-HPS (6*115) | 690 | 97 | 230 | 90 | 2.72 | 113 | 2.34 | 0.38 |
| | Tanakpur-HPS (3*40) | 94 | 16 | 17 | 19 | 0.40 | 17 | 0.39 | 0.01 |
| | Uri-I HPS (4*120) | 480 | 202 | 232 | 206 | 5.05 | 211 | 4.82 | 0.24 |
| | Uri-II HPS (4*60) | 240 | 127 | 122 | 131 | 3.08 | 128 | 3.02 | 0.06 |
| | Dhauliganga-HPS (4*70) | 280 | 210 | 210 | 0 | 0.79 | 33 | 0.70 | 0.09 |
| | Dulhasi-HPS (3*130) | 390 | 386 | 399 | 0 | 2.37 | 99 | 2.20 | 0.17 |
| Sewa-II HPS (3*40) | 120 | 119 | 103 | 0 | 0.25 | 10 | 0.36 | -0.11 | |
| Parbati 3 (4*130) | 520 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | |
| Sub Total (C) | 4065 | 2039 | 2212 | 446 | 19 | 793 | 18 | 1 | |
| D.SJVNL | NJPC (6*250) | 1500 | 1605 | 1532 | 0 | 6.53 | 272 | 6.46 | 0.07 |
| | Rampur HEP (6*68.67) | 412 | 412 | 441 | 0 | 1.81 | 76 | 1.79 | 0.03 |
| Sub Total (D) | 1912 | 2017 | 1973 | 0 | 8.34 | 348 | 8.25 | 0.09 | |
| E. THDC | Tehri HPS (4*250) | 1000 | 816 | 808 | 0 | 7.58 | 316 | 7.60 | -0.02 |
| | Koteshwar HPS (4*100) | 400 | 130 | 403 | 90 | 3.16 | 132 | 3.13 | 0.03 |
| Sub Total (E) | 1400 | 946 | 1211 | 90 | 10.74 | 448 | 10.73 | 0.01 | |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 697 | 1208 | 387 | 16.90 | 704 | 16.72 | 0.18 |
| | Dehar HPS (6*165) | 990 | 115 | 495 | 0 | 2.78 | 116 | 2.76 | 0.02 |
| | Pong HPS (6*66) | 396 | 297 | 312 | 252 | 7.04 | 293 | 7.12 | -0.08 |
| | Sub Total (F) | 2765 | 1108 | 2015 | 639 | 26.72 | 1113 | 26.60 | 0.12 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 0 | 0 | 0.38 | 16 | 0.37 | 0.01 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 625 | 0 | 3.38 | 141 | 3.60 | -0.22 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.17 | 7 | 0.16 | 0.01 |
| | Shree Cement TPS (2*150) | 300 | 0 | 296 | 296 | 6.93 | 289 | 7.16 | -0.23 |
| | Budhi HPS(IPP) (2*35) | 70 | 0 | 35 | 0 | 0.14 | 6 | 0.14 | 0.00 |
| | Sub Total (G) | 1662 | 0 | 955 | 296 | 11.00 | 458 | 11.42 | -0.42 |
| H. Total Regional Entities (A-G) | 25237 | 18841 | 18973 | 10058 | 288.36 | 12015 | 292.56 | -4.20 | |

| 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 | 210 | 160 | 3.63 | 151 | |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 0 | 0 | -0.03 | -1 | |
| | Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 0 | 0 | -0.09 | -4 | |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 | |
| | Rajpura (2*700) | 1400 | 1152 | 701 | 23.56 | 981 | |
| | Talwandi Saboo (2*660) | 1320 | 333 | 336 | 8.69 | 362 | |
| | Thermal (Total) | 5360 | 1695 | 1197 | 35.76 | 1490 | |
| | Total Hydro | 1000 | 304 | 305 | 7.23 | 301 | |
| | Total Punjab | 6360 | 1999 | 1502 | 42.99 | 1791 | |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 630 | 406 | 12.15 | 506 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 553 | 458 | 12.21 | 509 | |
| Faridabad GPS (NTPC) | | 432 | 0 | 0 | 0.00 | 0 | |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 0 | 0 | 0.00 | 0 | |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 | |
| Jhajjar(CLP) (2*660) | | 1320 | 1099 | 738 | 22.22 | 926 | |
| Thermal (Total) | | 4944 | 2282 | 1602 | 46.58 | 1941 | |
| Total Hydro | | 62 | 8 | 23 | 0.33 | 14 | |
| Total Haryana | | 5006 | 2290 | 1625 | 46.91 | 1955 | |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 846 | 855 | 21.56 | 899 |
| | suratgarh TPS (6*250) | 1500 | 560 | 565 | 14.46 | 602 | |
| | Chabra TPS (4*250) | 1000 | 575 | 620 | 14.64 | 610 | |
| | 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 | 191 | 183 | 3.61 | 150 | |
| | RAPS A (NPC) (1*100+1*200) | 300 | 0 | 0 | 0.00 | 0 | |
| | Barsingsar (NLC) (2*125) | 250 | 175 | 175 | 4.08 | 170 | |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 | |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 959 | 968 | 23.14 | 964 | |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 | |
| | Kalisindh Thermal(2*600) | 1200 | 929 | 443 | 17.20 | 717 | |
| | Kawai(Adani) (2*660) | 1320 | 953 | 1153 | 26.21 | 1092 | |
| | Thermal (Total) | 8876 | 5188 | 4962 | 125 | 5204 | |
| | Total Hydro | 550 | 228 | 122 | 4.75 | 198 | |
| | Wind power | 3214 | 93 | 711 | 7.66 | 319 | |
| | Biomass | 99 | 20 | 20 | 0.48 | 20 | |
| | Solar | 730 | 8 | 0 | 0.44 | 18 | |
| | Renewable/Others (Total) | 4043 | 121 | 731 | 8.58 | 357 | |
| | Total Rajasthan | 13469 | 5537 | 5815 | 138.23 | 5760 | |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1211 | 1233 | 29.30 | 1221 |
| | | Obra TPS (2*50+2*94+5*200) | 1194 | 464 | 452 | 10.80 | 450 |
| | | Paricha TPS (2*110+2*220+2*250) | 1140 | 801 | 655 | 18.10 | 754 |
| | | Panki TPS (2*105) | 210 | 0 | 0 | 0.00 | 0 |
| Harduaaganj TPS (1*60+1*105+2*250) | | 665 | 542 | 535 | 12.40 | 517 | |
| Tanda TPS (NTPC) (4*110) | | 440 | 393 | 293 | 7.73 | 322 | |
| Roza TPS (IPP) (4*300) | | 1200 | 369 | 388 | 11.03 | 460 | |
| Anpara-C (IPP) (2*600) | | 1200 | 1089 | 1080 | 24.51 | 1021 | |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 0 | 0 | 0.00 | 0 | |
| Anpara-D(1*500) | | 500 | 0 | 0 | 0.00 | 0 | |
| Lalitpur TPS(2*660) | | 1320 | 0 | 0 | 0.00 | 0 | |
| Bara(2*660) | | 1320 | 0 | 0 | 0.00 | 0 | |
| Thermal (Total) | | 11269 | 4869 | 4636 | 114 | 4745 | |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 64 | 63 | 1.51 | 63 | |
| Alakanada(4*82.5) | | 330 | 80 | 0 | 0.99 | 41 | |
| Other Hydro | | 527 | 45 | 32 | 1.81 | 75 | |
| Cogeneration | | 981 | 800 | 800 | 19.20 | 800 | |
| Total UP | 13547 | 5858 | 5531 | 137 | 5725 | | |
| Uttarakhand | Total Hydro | 1398 | 639 | 283 | 10.11 | 421 | |
| | Total Uttarakhand | 1398 | 639 | 283 | 10.11 | 421 | |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 | |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 36 | 36 | 0.91 | 38 | |
| | Praagati Gas Turbine (2x104+ 1x122) | 330 | 141 | 140 | 3.38 | 141 | |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 | |
| | Bawana GPS (4*216+2*253) | 1370 | 252 | 251 | 6.03 | 251 | |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 162 | 157 | 3.47 | 145 | |
| | Thermal (Total) | 2917 | 591 | 584 | 13.79 | 574 | |
| Total Delhi | 2917 | 591 | 584 | 13.79 | 574 | | |
| HP | Baspa HPS (IPP) (3*100) | 300 | 38 | 0 | 1.10 | 46 | |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.18 | 7 | |
| | Other Hydro | 878 | 121 | 48 | 2.26 | 94 | |
| | Total HP | 1264 | 159 | 48 | 3.54 | 147 | |
| J & K | Baglihar HPS (IPP) (3*150) | 450 | 111 | 111 | 2.70 | 112 | |
| | Other Hydro/IPP | 560 | 90 | 45 | 1.65 | 69 | |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 | |
| | Total J & K | 1200 | 201 | 156 | 4.35 | 181 | |
| Total State Control Area Generation | | 45161 | 17274 | 15544 | 397.31 | 16555 | |
| J. Net Inter Regional Exchange (Import (+ve)/Export (-ve)) | | | 5750.52 | 6729.72 | 173.43 | 7226 | |
| Total Regional Availability(Gross) | | 70398 | 41998 | 32332 | 859.10 | 35796 | |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| Regional Entities Hydro | 12234 | 8688 | 1175 | 70.74 | 2947 |
| State Control Area Hydro | 6581 | 1728 | 1032 | 35 | 1443 |
| Total Regional Hydro | 18815 | 10416 | 2207 | 105.37 | 4390 |

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) | 150 | 100 | 150 | 50 | 1.66 | 0.50 | 1.16 |
| 765 KV Gwalior-Agra (D/C) | 2184 | 2217 | 3027 | 0 | 61.61 | 0.00 | 61.61 |
| 400 KV Zarda-Kankroli | -69 | -236 | 20 | 243 | 0.00 | 1.66 | -1.66 |
| 400 KV Zarda-Bhinmal | 18 | -164 | 137 | 206 | 0.28 | 0.00 | 0.28 |
| 220 KV Auraiya-Malanpur | -109 | -104 | 0 | 117 | 0.00 | 2.28 | -2.28 |
| 220 KV Badod-Kota/Morak | 8 | 21 | 41 | 0 | 0.83 | 0.00 | 0.83 |
| Mundra-Mohindergarh(HVDC Bipole) | 2498 | 2502 | 2506 | 0 | 60.89 | 0.00 | 60.89 |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 848 | 923 | 1148 | 0 | 24.40 | 0.00 | 24.40 |
| Sub Total WR | 5528 | 5259 | | | 149.67 | 4.44 | 145.23 |
| Pusauli Bypass/HVDC | 300 | 300 | 300 | 0 | 7.17 | 0.00 | 7.17 |
| 400 KV MZP- GKP (D/C) | -510 | -232 | 0 | 620 | 0.00 | 8.21 | -8.21 |
| 400 KV Patna-Balia(D/C) X 2 | 378 | 613 | 677 | 0 | 13.45 | 0.00 | 13.45 |
| 400 KV B' Sharif-Balia (D/C) | -208 | -8 | 0 | 236 | 0.00 | 1.86 | -1.86 |
| 765 KV Gaya-Balia | 48 | 171 | 257 | 0 | 2.18 | 0.00 | 2.18 |
| 765 KV Gaya-Fatehpur | -14 | 108 | 247 | 14 | 3.59 | 0.00 | 3.59 |
| 220 KV Pusauli-Sahupuri | 155 | 173 | 173 | 0 | 3.32 | 0.00 | 3.32 |
| 132 KV K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.96 | 0.00 | 0.96 |
| 132 KV Son Ngr-Rihand | -20 | -25 | 0 | 32 | 0.00 | 0.58 | -0.58 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -280 | -125 | 30 | 280 | 0.00 | 2.38 | -2.38 |
| 400 KV Barh -GKP (D/C) | 374 | 496 | 514 | 0 | 10.57 | 0.00 | 10.57 |
| Sub Total ER | 223 | 1471 | | | 41.23 | 13.03 | 28.20 |
| +/- 800 KV BiswanathCharialli-Agra | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sub Total NER | 0 | 0 | | | 0.00 | 0.00 | 0.00 |
| Total IR Exch | 5751 | 6730 | | | 190.90 | 17.47 | 173.43 |

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

| ISGS/LT Schedule (MU) | | | Bilateral Schedule (MU) | | Power Exchange Shdli (MU) | | Wheeling (MU) | |
|-------------------------------|-------------------------|--------|-----------------------------|------------|---------------------------|---------------------------|---------------|------------|
| ER | Bhutan | Total | Through ER | Through WR | Through ER | Through WR | Through ER | Through WR |
| 31.22 | 0.17 | 31.39 | 3.57 | -2.33 | 0.03 | 21.29 | 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 |
| 34.99 | 136.38 | 171.38 | 28.20 | 145.23 | 173.43 | -6.79 | 8.84 | 2.05 |

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 | -32 | -29 | 0 | 32 | 0 | 1 | -0.71 |

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 | 0.90 | 28.64 | 68.61 | 24.06 | 7.19 | 0.32 | 0.00 |

| <----- Frequency (Hz) -----> | | | | Average Frequency | Frequency Variation Index | Std. Dev. | Frequency in 15 Min Block | | Freq Dev Index (% of Time) |
|------------------------------|-------|---------|-------|-------------------|---------------------------|-----------|---------------------------|-------|----------------------------|
| Maximum | | Minimum | | | | | MAX | MIN | |
| Freq | Time | Freq | Time | Hz | (Hz) | (Hz) | | | |
| 50.27 | 18.02 | 49.86 | 22.23 | 50.03 | 0.035 | 0.053 | 50.20 | 50.05 | 31.39 |

VII. Voltage profile 400 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Voltage Deviation Index (% of Time) |
|-------------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|-------------------------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <380 kV | <390 kV | >420 kV | >430 kV | |
| Rihand | 400 | 407 | 05:02 | 400 | 09:53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 423 | 05:02 | 405 | 10:10 | 0.0 | 0.0 | 3.8 | 0.0 | 3.8 |
| Bareilly(PG)400kV | 400 | 422 | 04:04 | 403 | 15:15 | 0.0 | 0.0 | 2.8 | 0.0 | 2.8 |
| Kanpur | 400 | 421 | 04:33 | 405 | 09:51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadrn | 400 | 426 | 04:02 | 407 | 09:47 | 0.0 | 0.0 | 20.4 | 0.0 | 20.4 |
| Ballabgarh | 400 | 432 | 04:02 | 411 | 09:47 | 0.0 | 0.0 | 41.8 | 2.4 | 41.8 |
| Bawana | 400 | 430 | 04:02 | 410 | 09:47 | 0.0 | 0.0 | 36.2 | 0.0 | 36.2 |
| Bassi | 400 | 424 | 05:00 | 397 | 06:40 | 0.0 | 0.0 | 5.7 | 0.0 | 5.7 |
| Hissar | 400 | 423 | 04:02 | 402 | 06:51 | 0.0 | 0.0 | 2.6 | 0.0 | 2.6 |
| Moga | 400 | 424 | 04:02 | 408 | 09:38 | 0.0 | 0.0 | 10.4 | 0.0 | 10.4 |
| Abdullapur | 400 | 422 | 13:03 | 407 | 22:18 | 0.0 | 0.0 | 6.5 | 0.0 | 6.5 |
| Nalagarh | 400 | 433 | 13:02 | 413 | 07:24 | 0.0 | 0.0 | 73.3 | 4.4 | 73.3 |
| Kishenpur | 400 | 431 | 11:55 | 399 | 18:55 | 0.0 | 0.0 | 29.5 | 0.1 | 29.5 |
| Wagoora | 400 | 421 | 11:51 | 376 | 19:05 | 8.9 | 23.8 | 0.2 | 0.0 | 9.0 |
| Amritsar | 400 | 431 | 04:02 | 412 | 09:18 | 0.0 | 0.0 | 47.0 | 0.2 | 47.0 |
| Kashipur | 400 | 420 | 00:00 | 414 | 12:18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 422 | 01:57 | 410 | 00:00 | 0.0 | 0.0 | 28.7 | 0.0 | 28.7 |
| Rishkesh | 400 | 413 | 20:57 | 396 | 12:22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

VIII. Voltage profile 765 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Voltage Deviation Index (% of Time) |
|-----------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|-------------------------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV | |
| Fatehpur | 765 | 777 | 04:03 | 739 | 22:21 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 773 | 04:33 | 745 | 10:09 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 802 | 13:01 | 771 | 22:20 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 |
| Agra | 765 | 795 | 04:33 | 758 | 22:20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 805 | 04:01 | 773 | 09:48 | 0.0 | 0.0 | 21.6 | 0.0 | 21.6 |
| Unnao | 765 | 771 | 05:01 | 741 | 10:09 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 791 | 04:33 | 759 | 10:09 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 811 | 20:58 | 0 | 08:28 | 41.6 | 41.6 | 11.1 | 0.0 | 52.8 |
| Jhatikara | 765 | | | | | 0.0 | 0.0 | 40.6 | 0.0 | 40.6 |
| Bareilly 765 kV | 765 | 793 | 04:30 | 764 | 10:35 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 784 | 04:30 | 762 | 06:27 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 789 | 04:03 | 757 | 06:38 | 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 | 492.78 | 827.99 | 488.38 | 680.71 | 157.07 | 524.06 |
| Pong | 426.72 | 384.05 | 402.83 | 288.96 | 400.09 | 223.85 | 82.43 | 498.46 |
| Tehri | 829.79 | 740.04 | 782.45 | 351.77 | 792.90 | 498.00 | 61.71 | 218.00 |
| Koteshwar | 612.50 | 598.50 | 610.64 | 4.95 | 610.43 | 4.95 | 218.00 | 207.82 |
| Chamera-I | 760.00 | 748.75 | 758.07 | 0.00 | 0.00 | 0.00 | 55.33 | 62.37 |
| Rihand | 268.22 | 252.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 1138.36 | 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 | 495.57 | 0.00 | 501.86 | 2.54 | 33.63 | 2.49 |

* 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 | -97 | 215 | 0 | -272 | -148 | 0 | -2.68 | 3.18 | 0.50 |
| Delhi | -943 | -584 | 0 | -707 | 261 | 0 | -17.24 | -1.88 | -19.11 |
| Haryana | -352 | 321 | 0 | -306 | 296 | 0 | -9.53 | 6.27 | -3.25 |
| HP | 194 | 110 | 0 | 386 | -16 | 0 | 9.99 | -0.89 | 9.10 |
| J&K | 724 | 0 | 0 | 791 | 14 | 0 | 16.17 | -0.06 | 16.11 |
| CHD | -31 | 0 | 0 | 0 | 0 | 0 | -0.24 | -0.07 | -0.31 |
| Rajasthan | -3 | 692 | 3 | -3 | 696 | 2 | 8.54 | 12.55 | 21.10 |
| UP | 135 | 0 | 0 | -604 | 0 | 0 | -8.20 | 0.00 | -8.20 |
| Uttarakhand | 192 | 158 | 0 | 192 | 335 | 0 | 4.72 | 6.09 | 10.81 |
| Total | -179 | 912 | 3 | -522 | 1437 | 2 | 1.53 | 25.20 | 26.74 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -68 | -272 | 215 | -148 | 0 | 0 |
| Delhi | -505 | -973 | 340 | -584 | 0 | 0 |
| Haryana | -306 | -581 | 324 | -24 | 0 | 0 |
| HP | 585 | 194 | 134 | -555 | 0 | 0 |
| J&K | 791 | 590 | 98 | -164 | 0 | 0 |
| CHD | 0 | -31 | 0 | -41 | 0 | 0 |
| Rajasthan | 843 | -3 | 702 | 74 | 3 | 1 |
| UP | 180 | -710 | 0 | 0 | 0 | 0 |
| Uttarakhand | 220 | 192 | 364 | 145 | 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 | 1.74% |

(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 11.02.2016 :

Normal

XV. Synchronisation of new generating units :

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

- 1) The 50MVAR Line Reactor of the 400kV Balia-Patna line -1 commissioned at 18:16 Hrs on dt.09.02.2016.
- 2) The 50 MVAR Line Reactor of the 400kV Balia-Patna line -2 commissioned at 19:12 Hrs on dt.09.02.2016.

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :