

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसई की पूर्ण स्वामित्व प्राप्त सख्यक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 24.01.2016
Date of Reporting : 25.01.2016



I. Regional Availability/Demand:

| Demand Met | Evening Peak (19:00 Hrs) MW | | | Freq* (Hz) | Off Peak (03:00 Hrs) MW | | | Demand Met | Day Energy (Net MU) | |
|------------|-----------------------------|-------------|-------------|------------|-------------------------|-------------|-------------|------------|---------------------|----------|
| | Shortage | Requirement | Requirement | | Shortage | Requirement | Requirement | | Demand Met | Shortage |
| 39041 | 1637 | 40678 | 40678 | 50.03 | 30752 | 305 | 31057 | 50.13 | 843.6 | 44.90 |

* 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) | UI [OD:(+ve), UD:(-ve)] Shortages * | |
|--------------|--|--------------|---------------------|---------------|--------------------------|------------------------|--------------|----------------------|-------------------------------------|----------------|
| | Thermal | Hydro | Renewable/others \$ | Total | | | | | Shortages (MU) | Shortages (MU) |
| Punjab | 64.57 | 7.24 | | 71.81 | 31.22 | 30.69 | -0.52 | 102.51 | 0.00 | |
| Haryana | 56.87 | 0.23 | | 57.10 | 63.56 | 60.63 | -2.92 | 117.74 | 0.00 | |
| Rajasthan | 146.07 | 4.72 | 4.16 | 154.95 | 63.89 | 65.31 | 1.42 | 220.26 | 1.53 | |
| Delhi | 12.73 | | | 12.73 | 53.34 | 52.37 | -0.97 | 65.10 | 0.02 | |
| UP | 134.28 | 4.79 | | 139.07 | 92.21 | 92.60 | 0.40 | 231.67 | 32.79 | |
| Uttarakhand | | 9.60 | | 9.60 | 24.40 | 24.29 | -0.11 | 33.90 | 0.00 | |
| HP | | 3.67 | | 3.67 | 19.23 | 21.64 | 2.42 | 25.31 | 0.35 | |
| J & K | | 5.44 | 0.00 | 5.44 | 38.43 | 37.95 | -0.48 | 43.38 | 10.21 | |
| Chandigarh | | | | 0.00 | 3.37 | 3.73 | 0.27 | 3.73 | 0.00 | |
| Total | 414.52 | 35.70 | 4.16 | 454.37 | 389.62 | 389.21 | -0.49 | 843.59 | 44.90 | |

* 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 | 4518 | 0 | -128 | -1312 | 3072 | 0 | -53 | -393 | 5445 |
| Haryana | 6257 | 0 | -57 | -553 | 3729 | 0 | 114 | -363 | 6257 |
| Rajasthan | 9626 | 0 | 123 | 400 | 8563 | 0 | 158 | 218 | 10159 |
| Delhi | 3139 | 0 | -272 | -605 | 1546 | 0 | -10 | -1560 | 3952 |
| UP | 10540 | 1180 | -47 | -28 | 9939 | 0 | -112 | 125 | 10689 |
| Uttarakhand | 1733 | 0 | -146 | 672 | 1237 | 0 | 51 | 436 | 1849 |
| HP | 1203 | 0 | 61 | 127 | 838 | 0 | 75 | 347 | 1391 |
| J&K | 1827 | 457 | -154 | 869 | 1729 | 305 | 16 | 746 | 1995 |
| Chandigarh | 198 | 0 | 11 | 0 | 100 | 0 | 17 | -31 | 220 |
| Total | 39041 | 1637 | -609 | -430 | 30752 | 305 | 256 | -475 | 39041 |

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

Diversity is 1.07

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 | 2018 | 1855 | 43.36 | 1807 | 43.36 | 0.01 |
| | Rihand I STPS (2*500) | 1000 | 868 | 900 | 721 | 19.02 | 792 | 19.05 | -0.04 |
| | Rihand II STPS (2*500) | 1000 | 965 | 935 | 784 | 20.46 | 853 | 20.56 | -0.10 |
| | Rihand III STPS (2*500) | 1000 | 974 | 1022 | 856 | 21.10 | 879 | 21.63 | -0.53 |
| | Dadri I STPS (4*210) | 840 | 815 | 813 | 561 | 16.45 | 686 | 16.90 | -0.45 |
| | Dadri II STPS (2*490) | 980 | 980 | 974 | 679 | 20.29 | 845 | 20.85 | -0.56 |
| | Unchahar I TPS (2*210) | 420 | 406 | 414 | 314 | 8.26 | 344 | 8.80 | -0.53 |
| | Unchahar II TPS (2*210) | 420 | 404 | 410 | 310 | 8.13 | 339 | 8.55 | -0.42 |
| | Unchahar III TPS (1*220) | 210 | 202 | 197 | 157 | 4.04 | 168 | 4.28 | -0.25 |
| | ISTPP (Jhajhar) (3*500) | 1500 | 1473 | 931 | 948 | 21.29 | 887 | 21.50 | -0.21 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 813 | 239 | 236 | 5.60 | 233 | 6.03 | -0.43 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 421 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 655 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Dadri Solar | 5 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0.00 |
| | Unchahar Solar | 10 | 1 | 0 | 0 | 0.03 | 1 | 0.03 | 0.00 |
| | Singrauli Solar | 15 | 3 | 0 | 0 | 0.07 | 3 | 0.07 | 0.01 |
| | KHEP | 800 | 655 | 300 | 0 | 1.97 | 82 | 1.97 | 0.01 |
| Sub Total (A) | 12112 | 11506 | 9153 | 7421 | 190 | 7921 | 194 | -3 | |
| B. NPC | NAPS (2*220) | 440 | 412 | 450 | 458 | 9.94 | 414 | 9.89 | 0.05 |
| | RAPS- B (2*220) | 440 | 392 | 425 | 427 | 9.24 | 385 | 9.41 | -0.17 |
| | RAPS- C (2*220) | 440 | 420 | 453 | 460 | 9.94 | 414 | 10.08 | -0.14 |
| | Sub Total (B) | 1320 | 1224 | 1328 | 1345 | 29.11 | 1213 | 29.37 | -0.26 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 360 | 374 | 0 | 1.43 | 60 | 1.25 | 0.18 |
| | Chamera II HPS (3*100) | 300 | 200 | 202 | 0 | 1.04 | 43 | 0.96 | 0.09 |
| | Chamera III HPS (3*77) | 231 | 155 | 160 | 0 | 0.52 | 22 | 0.46 | 0.05 |
| | Bairasuli HPS(3*60) | 180 | 124 | 62 | 0 | 0.41 | 17 | 0.38 | 0.03 |
| | Salal-HPS (6*115) | 690 | 97 | 230 | 90 | 2.73 | 114 | 2.34 | 0.39 |
| | Tanakpur-HPS (3*40) | 94 | 16 | 16 | 15 | 0.45 | 19 | 0.39 | 0.06 |
| | Uri-I HPS (4*120) | 480 | 150 | 151 | 123 | 3.93 | 164 | 3.61 | 0.32 |
| | Uri-II HPS (4*60) | 240 | 98 | 117 | 89 | 2.42 | 101 | 2.35 | 0.08 |
| | Dhauliganga-HPS (4*70) | 280 | 140 | 141 | 0 | 0.79 | 33 | 0.70 | 0.09 |
| | Dulhasi-HPS (3*130) | 390 | 258 | 273 | 0 | 2.95 | 123 | 2.80 | 0.15 |
| | Sewa-II HPS (3*40) | 120 | 119 | 77 | 0 | 0.28 | 12 | 0.33 | -0.05 |
| | Parbati 3 (4*130) | 520 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Sub Total (C) | 4065 | 1717 | 1803 | 317 | 17 | 707 | 16 | 1 | |
| D.SJVNL | NJPC (6*250) | 1500 | 1605 | 1601 | 0 | 6.31 | 263 | 6.23 | 0.07 |
| | Rampur HEP (6*68.67) | 412 | 344 | 345 | 0 | 1.70 | 71 | 1.61 | 0.09 |
| Sub Total (D) | 1912 | 1949 | 1946 | 0 | 8.00 | 333 | 7.84 | 0.16 | |
| E. THDC | Tehri HPS (4*250) | 1000 | 880 | 824 | 0 | 8.69 | 362 | 8.50 | 0.19 |
| | Koteshwar HPS (4*100) | 400 | 138 | 306 | 93 | 3.32 | 138 | 3.33 | -0.01 |
| Sub Total (E) | 1400 | 1018 | 1130 | 93 | 12.01 | 500 | 11.83 | 0.18 | |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 557 | 1006 | 364 | 13.59 | 566 | 13.86 | 0.23 |
| | Dehar HPS (6*165) | 990 | 105 | 495 | 0 | 2.54 | 106 | 2.52 | 0.02 |
| | Pong HPS (6*66) | 396 | 292 | 384 | 66 | 6.90 | 288 | 7.00 | -0.10 |
| Sub Total (F) | 2765 | 953 | 1885 | 430 | 23.03 | 959 | 22.88 | 0.15 | |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 0 | 0 | 0.42 | 17 | 0.40 | 0.02 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 595 | 0 | 3.42 | 143 | 3.43 | -0.01 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.18 | 8 | 0.17 | 0.01 |
| | Shree Cement TPS (2*150) | 300 | 0 | 297 | 300 | 7.08 | 295 | 7.16 | -0.08 |
| | Budhi HPS(IPP) (2*35) | 70 | 0 | 35 | 0 | 0.14 | 6 | 0.14 | 0.00 |
| | Sub Total (G) | 1662 | 0 | 927 | 300 | 11.25 | 469 | 11.31 | -0.06 |
| H. Total Regional Entities (A-G) | 25237 | 18366 | 18172 | 9905 | 290.45 | 12102 | 292.37 | -1.92 | |

| 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 | 420 | 480 | 10.39 | 433 |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 230 | 190 | 4.25 | 177 |
| | Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 464 | 596 | 12.77 | 532 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 828 | 711 | 23.91 | 996 |
| | Talwandi Saboo (2*660) | 1320 | 684 | 350 | 13.25 | 552 |
| | Thermal (Total) | 5360 | 2626 | 2327 | 64.57 | 2690 |
| | Total Hydro | 1000 | 257 | 232 | 7.24 | 302 |
| | Total Punjab | 6360 | 2883 | 2559 | 71.81 | 2992 |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 220 | 219 | 5.21 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 555 | 456 | 11.55 | 481 |
| Faridabad GPS (NTPC) | | 432 | 0 | 0 | 0.00 | 0 |
| RGTPP (Khedar) (IPP) (2*600) | | 1200 | 877 | 790 | 20.44 | 851 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 737 | 736 | 19.67 | 820 |
| Thermal (Total) | | 4944 | 2389 | 2201 | 56.87 | 2370 |
| Total Hydro | | 62 | 6 | 8 | 0.23 | 10 |
| Total Haryana | | 5006 | 2395 | 2209 | 57.10 | 2379 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 1036 | 1038 | 26.05 |
| | suratgarh TPS (6*250) | 1500 | 1030 | 977 | 24.80 | 1034 |
| | Chabra TPS (4*250) | 1000 | 634 | 568 | 14.95 | 623 |
| | Dholpur GPS (3*110) | 330 | 96 | 99 | 2.53 | 105 |
| | Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 195 | 196 | 3.80 | 159 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 0 | 0 | 0.00 | 0 |
| | Barsingsar (NLC) (2*125) | 250 | 93 | 92 | 2.10 | 88 |
| | Giral LTPS (2*125) | 250 | 42 | 42 | 0.77 | 32 |
| | Rajwst LTPS (IPP) (8*135) | 1080 | 846 | 845 | 20.25 | 844 |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 |
| | Kalisindh Thermal(2*600) | 1200 | 1097 | 849 | 23.63 | 985 |
| | Kawai(Adani) (2*660) | 1320 | 1186 | 1071 | 27.19 | 1133 |
| | Thermal (Total) | 8876 | 6255 | 5777 | 146 | 6086 |
| | Total Hydro | 550 | 163 | 182 | 4.72 | 197 |
| | Wind power | 3214 | 120 | 249 | 3.55 | 148 |
| | Biomass | 99 | 21 | 21 | 0.49 | 21 |
| | Solar | 730 | 2 | 0 | 0.12 | 5 |
| | Renewable/Others (Total) | 4043 | 143 | 270 | 4.16 | 173 |
| | Total Rajasthan | 13469 | 6561 | 6229 | 154.95 | 6456 |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1355 | 1389 | 32.70 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 417 | 430 | 10.40 | 433 |
| Paricha TPS (2*110+2*220+2*250) | | 1140 | 874 | 879 | 20.10 | 838 |
| Panki TPS (2*105) | | 210 | 0 | 0 | 0.00 | 0 |
| Harduaagan TPS (1*60+1*105+2*250) | | 665 | 533 | 534 | 12.60 | 525 |
| Tanda TPS (NTPC) (4*110) | | 440 | 392 | 394 | 8.75 | 364 |
| Roza TPS (IPP) (4*300) | | 1200 | 549 | 473 | 12.24 | 510 |
| Anpara-C (IPP) (2*600) | | 1200 | 540 | 542 | 12.95 | 540 |
| 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 | 393 | 5.34 | 223 |
| Thermal (Total) | | 11269 | 4660 | 5034 | 115 | 4795 |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 69 | 64 | 1.60 | 67 |
| Alakanada(4*82.5) | | 330 | 72 | 0 | 0.98 | 41 |
| Other Hydro | | 527 | 150 | 23 | 2.22 | 92 |
| Cogeneration | | 981 | 800 | 800 | 19.20 | 800 |
| Total UP | 13547 | 5751 | 5921 | 139 | 5795 | |
| Uttarakhand | Total Hydro | 1398 | 620 | 281 | 9.60 | 400 |
| | Total Uttarakhand | 1398 | 620 | 281 | 9.60 | 400 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | -0.01 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 40 | 34 | 0.86 | 36 |
| | Praagati Gas Turbine (2x104+ 1x122) | 330 | 149 | 140 | 3.21 | 134 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (4*216+2*253) | 1370 | 251 | 250 | 6.05 | 252 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 0 | 165 | 2.62 | 109 |
| | Thermal (Total) | 2917 | 440 | 589 | 12.73 | 530 |
| Total Delhi | 2917 | 440 | 589 | 12.73 | 530 | |
| HP | Baspa HPS (IPP) (3*100) | 300 | 0 | 0 | 1.28 | 53 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.18 | 8 |
| | Other Hydro | 878 | 102 | 53 | 2.22 | 92 |
| | Total HP | 1264 | 102 | 53 | 3.67 | 153 |
| J & K | Baglihar HPS (IPP) (3*150) | 450 | 150 | 150 | 3.60 | 150 |
| | Other Hydro/IPP | 560 | 94 | 66 | 1.84 | 77 |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1200 | 244 | 216 | 5.44 | 227 |
| Total State Control Area Generation | | 45161 | 18996 | 18057 | 454.37 | 18932 |
| J. Net Inter Regional Exchange (Import (+ve)/Export (-ve)) | | | 4390 | 4634 | 125.26 | 5219 |
| Total Regional Availability(Gross) | | 70398 | 41558 | 32596 | 870.08 | 36253 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|-------------|-------------|---------------|-------------|
| Regional Entities Hydro | 12234 | 7659 | 840 | 65.99 | 2750 |
| State Control Area Hydro | 6581 | 1683 | 1059 | 36 | 1487 |
| Total Regional Hydro | 18815 | 9342 | 1899 | 101.69 | 4237 |

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 | MW | MW | Import | Export | Import | Export | |
| | Vindhychal(HVDC B/B) | -50 | -500 | 200 | 500 | 1.28 | 6.34 | -5.06 | |
| 765 KV Gwalior-Agra (D/C) | 1593 | 1638 | 3121 | 0 | 45.05 | 0.00 | 45.05 | | |
| 400 KV Zerde-Kankroli | -102 | -269 | 0 | 277 | 0.00 | 3.33 | -3.33 | | |
| 400 KV Zerde-Bhinmal | -10 | -165 | 110 | 191 | 0.00 | 0.87 | -0.67 | | |
| 220 KV Auraiya-Malanpur | -38 | -50 | 0 | 66 | 0.00 | 0.63 | -0.83 | | |
| 220 KV Badod-Kota/Morak | -17 | -40 | 0 | 43 | 0.00 | 0.78 | -0.78 | | |
| Mundra-Mohindergarh(HVDC Bipole) | 2498 | 2502 | 2506 | 0 | 58.01 | 0.00 | 58.01 | | |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | | |
| 765 kV Phagi-Gwalior (D/C) | 630 | 634 | 929 | 0 | 18.35 | 0.00 | 18.35 | | |
| Sub Total WR | 4504 | 3750 | | | 122.68 | 11.95 | 110.73 | | |
| Pusauli Bypass/HVDC | 400 | 400 | 400 | 0 | 8.95 | 0.00 | 8.95 | | |
| 400 KV MZP- GKP (D/C) | -1058 | -500 | 0 | 1118 | 0.00 | 16.54 | -16.54 | | |
| 400 KV Patna-Balia(D/C) X 2 | 208 | 298 | 371 | 0 | 6.99 | 0.00 | 6.99 | | |
| 400 KV B' Sharif-Balia (D/C) | -383 | -276 | 0 | 453 | 0.00 | 7.08 | -7.08 | | |
| 765 KV Gaya-Balia | 89 | 204 | 204 | 0 | 0.99 | 0.00 | 0.99 | | |
| 765 KV Gaya-Fatehpur | -35 | 6 | 204 | 66 | 1.24 | 0.00 | 1.24 | | |
| 220 KV Pusauli-Sahupuri | 112 | 120 | 162 | 0 | 2.61 | 0.00 | 2.61 | | |
| 132 KV K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.96 | 0.00 | 0.96 | | |
| 132 KV Son Ngr-Rihand | -16 | -20 | 0 | 27 | 0.00 | 0.52 | -0.52 | | |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | | |
| 765 KV Sasaram - Fatehpur | -363 | -268 | 0 | 382 | 0.00 | 5.83 | -5.83 | | |
| 400 KV Barh -GKP (D/C) | 432 | 420 | 496 | 0 | 9.69 | 0.00 | 9.69 | | |
| Sub Total ER | -614 | 384 | | | 31.43 | 29.97 | 1.46 | | |
| +/- 800 KV BiswanathCharialli-Agra | 500 | 500 | 800 | 0 | 13.07 | 0.00 | 13.07 | | |
| Sub Total NER | 500 | 500 | | | 13.07 | 0.00 | 13.07 | | |
| Total IR Exch | 4390 | 4634 | | | 167.18 | 41.92 | 125.26 | | |

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 |
| 32.13 | 0.17 | 32.30 | -4.33 | -9.61 | -1.14 | 0.00 | 4.93 | -4.93 |
| 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 |
| 31.76 | 93.04 | 124.79 | 14.53 | 110.73 | 125.26 | -17.22 | 17.69 | 0.47 |

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 | MW | MW | Import | Export | Import | Export | |
| | 132 KV Tanakpur - Mahendarnagar | 30 | 31 | 0 | 35 | 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 | 0.69 | 8.06 | 50.72 | 70.81 | 15.94 | 5.01 | 0.30 | NA |

| <----- 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) | (Hz) | (Hz) | |
| 50.23 | 18.02 | 49.73 | 22.08 | 50.00 | 0.046 | 0.068 | 0.00 | 0.00 | 29.19 |

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 | 05:07 | 397 | 14:51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 420 | 05:04 | 396 | 17:37 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly(PG)400kV | 400 | 424 | 05:04 | 400 | 12:39 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 |
| Kanpur | 400 | 423 | 05:00 | 402 | 09:50 | 0.0 | 0.0 | 3.4 | 0.0 | 3.4 |
| Dadrn | 400 | 427 | 02:59 | 404 | 11:11 | 0.1 | 0.1 | 20.0 | 0.0 | 20.0 |
| Ballaahgarh | 400 | 434 | 05:02 | 407 | 10:37 | 0.0 | 0.0 | 39.5 | 10.8 | 39.5 |
| Bawana | 400 | 429 | 02:56 | 407 | 11:07 | 0.0 | 0.0 | 30.7 | 0.0 | 30.7 |
| Bassi | 400 | 426 | 05:01 | 394 | 16:22 | 0.0 | 0.0 | 6.4 | 0.0 | 6.4 |
| Hissar | 400 | 421 | 03:01 | 399 | 11:07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 423 | 02:59 | 404 | 11:09 | 0.0 | 0.0 | 14.5 | 0.0 | 14.5 |
| Abdullapur | 400 | 424 | 03:02 | 396 | 11:54 | 0.0 | 0.0 | 13.6 | 0.0 | 13.6 |
| Nalagarh | 400 | 435 | 02:59 | 411 | 10:21 | 0.0 | 0.0 | 52.3 | 16.4 | 52.3 |
| Kishenpur | 400 | 427 | 21:19 | 397 | 11:05 | 0.0 | 0.0 | 7.9 | 0.0 | 7.9 |
| Wagoora | 400 | 413 | 20:05 | 368 | 18:23 | 39.6 | 77.8 | 0.0 | 0.0 | 39.6 |
| Amritsar | 400 | 430 | 03:01 | 411 | 11:09 | 0.0 | 0.0 | 41.0 | 0.0 | 41.0 |
| Kashipur | 400 | 423 | 05:00 | 412 | 09:20 | 0.0 | 0.0 | 14.3 | 0.0 | 14.3 |
| Hamirpur | 400 | 424 | 03:42 | 409 | 12:53 | 0.0 | 0.0 | 21.9 | 0.0 | 21.9 |
| Rishkesh | 400 | 426 | 05:03 | 394 | 09:50 | 0.0 | 0.0 | 14.6 | 0.0 | 14.6 |

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 | 779 | 21:46 | 735 | 16:22 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 764 | 21:55 | 738 | 16:22 | 0.0 | 13.9 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 805 | 21:47 | 764 | 11:07 | 0.0 | 0.0 | 2.4 | 0.0 | 2.4 |
| Agra | 765 | 797 | 05:03 | 750 | 16:22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 805 | 02:57 | 766 | 10:21 | 0.0 | 0.0 | 13.8 | 0.0 | 13.8 |
| Unnao | 765 | 772 | 05:03 | 750 | 00:07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 790 | 05:03 | 751 | 12:40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 813 | 05:02 | 769 | 11:38 | 0.0 | 0.0 | 25.0 | 0.0 | 25.0 |
| Jhatikara | 765 | 815 | 03:00 | 768 | 10:20 | 0.0 | 0.0 | 22.3 | 0.0 | 22.3 |
| Bareilly 765 kV | 765 | 795 | 05:03 | 753 | 12:39 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 781 | 02:24 | 756 | 09:47 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 793 | 04:03 | 748 | 16:21 | 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 | 496.81 | 971.87 | 493.44 | 848.04 | 134.65 | 422.18 |
| Pong | 426.72 | 384.05 | 406.83 | 397.88 | 402.23 | 273.51 | 52.81 | 469.10 |
| Tehri | 829.79 | 740.04 | 791.45 | 474.82 | 800.50 | 617.91 | 80.48 | 237.00 |
| Koteshwar | 612.50 | 598.50 | 611.25 | 5.20 | 609.83 | 4.44 | 237.00 | 218.00 |
| Chamera-I | 760.00 | 748.75 | 758.42 | 0.00 | 0.00 | 0.00 | 41.04 | 38.40 |
| Rihand | 268.22 | 252.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 1138.78 | 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 | 496.02 | 0.91 | 503.02 | 1.03 | 43.18 | 45.42 |

* 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 | -402 | 10 | 0 | -861 | -451 | 0 | -15.09 | -1.62 | -16.71 |
| Delhi | -944 | -613 | -3 | -545 | -58 | -3 | -14.72 | -4.97 | -19.69 |
| Haryana | -544 | 181 | 0 | -749 | 196 | 0 | -16.93 | 1.12 | -15.81 |
| HP | 114 | 233 | 0 | 163 | -36 | 0 | 8.21 | -1.61 | 6.60 |
| J&K | 721 | 24 | 0 | 783 | 86 | 0 | 16.81 | 0.81 | 17.62 |
| CHD | -31 | 0 | 0 | 0 | 0 | 0 | -0.24 | -0.08 | -0.32 |
| Rajasthan | -7 | 222 | 3 | -7 | 405 | 3 | 4.32 | 8.84 | 13.16 |
| UP | 125 | 0 | 0 | -28 | 0 | 0 | -6.65 | 0.00 | -6.65 |
| Uttarakhand | 432 | 4 | 0 | 432 | 240 | 0 | 10.49 | 0.78 | 11.27 |
| Total | -537 | 62 | 0 | -811 | 381 | 0 | -13.81 | 3.28 | -10.54 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -402 | -861 | 109 | -619 | 0 | 0 |
| Delhi | -282 | -974 | 306 | -613 | -3 | -3 |
| Haryana | -544 | -953 | 230 | -485 | 0 | 0 |
| HP | 607 | 114 | 233 | -781 | 0 | 0 |
| J&K | 783 | 571 | 135 | -114 | 0 | 0 |
| CHD | 0 | -31 | 0 | -41 | 0 | 0 |
| Rajasthan | 694 | -7 | 647 | -709 | 3 | 3 |
| UP | 161 | -779 | 0 | 0 | 0 | 0 |
| Uttarakhand | 461 | 432 | 284 | -101 | 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 | 55.90% |
| ER | 0.00% |
| Simultaneous | 12.50% |

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

| | |
|--------------|--------|
| WR | 58.33% |
| ER | 0.00% |
| Simultaneous | 39.58% |

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 24.01.2016 :

Normal

XV. Synchronisation of new generating units :

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

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :