

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(सर्वरहित की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 23.03.2016

Date of Reporting : 24.03.2016



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 |
| 33864 | 464 | 34328 | 49.99 | 30919 | 245 | 31165 | 50.04 | 811.8 | 9.93 |

* 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 | | | | | |
| Punjab | 21.17 | 6.65 | | 27.81 | 58.98 | 59.49 | 0.51 | 87.31 | 0.00 |
| Haryana | 31.45 | 0.31 | | 31.76 | 73.79 | 72.85 | -0.94 | 104.61 | 0.00 |
| Rajasthan | 107.64 | 2.41 | 11.12 | 121.17 | 56.53 | 58.21 | 1.68 | 179.37 | 0.00 |
| Delhi | 9.82 | | | 9.82 | 49.06 | 49.25 | 0.19 | 59.07 | 0.01 |
| UP | 152.64 | 4.80 | | 157.44 | 124.19 | 126.42 | 2.23 | 283.86 | 0.20 |
| Uttarakhand | | 8.59 | | 8.59 | 20.79 | 21.46 | 0.66 | 30.05 | 0.00 |
| HP | | 7.35 | | 7.35 | 15.86 | 16.04 | 0.19 | 23.39 | 0.06 |
| J & K | | 11.28 | 0.00 | 11.28 | 30.42 | 29.60 | -0.82 | 40.87 | 9.66 |
| Chandigarh | | | | 0.00 | 3.34 | 3.30 | 0.27 | 3.30 | 0.00 |
| Total | 322.71 | 41.39 | 11.12 | 375.21 | 432.95 | 436.61 | 3.97 | 811.83 | 9.93 |

* 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 | 3486 | 0 | 191 | -531 | 3176 | 0 | -1 | 145 | 3972 |
| Haryana | 4958 | 0 | -468 | 23 | 3331 | 0 | -166 | -93 | 5776 |
| Rajasthan | 6181 | 0 | -411 | 327 | 7491 | 0 | 93 | 536 | 8164 |
| Delhi | 2543 | 0 | -113 | -550 | 1880 | 0 | 1 | -892 | 3226 |
| UP | 12376 | 0 | -464 | 1022 | 11618 | 0 | 102 | 932 | 13964 |
| Uttarakhand | 1384 | 0 | 26 | 354 | 1176 | 0 | 80 | 331 | 1472 |
| HP | 914 | 0 | -127 | -239 | 766 | 0 | 109 | 121 | 1295 |
| J&K | 1856 | 464 | 28 | 328 | 1390 | 245 | -142 | 375 | 2081 |
| Chandigarh | 165 | 0 | -13 | -15 | 91 | 0 | 6 | -15 | 176 |
| Total | 33864 | 464 | -1351 | 717 | 30919 | 245 | 82 | 1440 | 37757 |

* 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 (Gross) | Off Peak MW (Gross) | Energy (Net MU) | Average Sentout(MW) | Schedule Net MU | UI Net MU |
|---|----------------------------------|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
| | | | | | | | | | |
| A. NTPC | Singrauli STPS (5*200+2*500) | 2000 | 1890 | 1952 | 2041 | 45.31 | 1888 | 45.14 | 0.17 |
| | Rihand I STPS (2*500) | 1000 | 828 | 781 | 854 | 19.05 | 794 | 19.24 | -0.19 |
| | Rihand II STPS (2*500) | 1000 | 946 | 882 | 990 | 22.02 | 917 | 21.78 | 0.24 |
| | Rihand III STPS (2*500) | 1000 | 946 | 949 | 1006 | 22.11 | 921 | 22.03 | 0.08 |
| | Dadri I STPS (4*210) | 840 | 815 | 386 | 418 | 8.06 | 336 | 8.41 | -0.35 |
| | Dadri II STPS (2*490) | 980 | 549 | 338 | 338 | 9.86 | 411 | 10.17 | -0.31 |
| | Unchahar I TPS (2*210) | 420 | 350 | 321 | 330 | 7.22 | 301 | 7.28 | -0.07 |
| | Unchahar II TPS (2*210) | 420 | 404 | 372 | 350 | 7.75 | 323 | 7.78 | -0.03 |
| | Unchahar III TPS (1*210) | 210 | 202 | 176 | 162 | 3.75 | 156 | 3.81 | -0.06 |
| | ISTPP (Jhajjar) (3*500) | 1500 | 950 | 327 | 331 | 7.90 | 329 | 8.21 | -0.31 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 800 | 184 | 193 | 4.41 | 184 | 4.77 | -0.36 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 409 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 653 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Dadri Solar(5) | 5 | 1 | 0 | 0 | 0.03 | 1 | 0.03 | 0.00 |
| | Unchahar Solar(10) | 10 | 1 | 0 | 0 | 0.04 | 1 | 0.03 | 0.00 |
| | Singrauli Solar(15) | 15 | 3 | 0 | 0 | 0.08 | 3 | 0.06 | 0.02 |
| KHEP(4*200) | 800 | 655 | 574 | 0 | 0.41 | 17 | 4.00 | -3.59 | |
| Sub Total (A) | 12112 | 10401 | 7242 | 7013 | 158 | 6583 | 163 | -5 | |
| B. NPC | NAPS (2*220) | 440 | 400 | 439 | 449 | 9.75 | 406 | 9.60 | 0.15 |
| | RAPS- B (2*220) | 440 | 375 | 422 | 425 | 9.14 | 381 | 9.00 | 0.14 |
| | RAPS- C (2*220) | 440 | 418 | 446 | 455 | 9.72 | 405 | 10.03 | -0.31 |
| | Sub Total (B) | 1320 | 1193 | 1307 | 1329 | 28.62 | 1192 | 28.63 | -0.02 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 534 | 525 | 0 | 5.19 | 216 | 5.10 | 0.09 |
| | Chamera II HPS (3*100) | 300 | 300 | 304 | 0 | 2.00 | 83 | 1.88 | 0.11 |
| | Chamera III HPS (3*77) | 231 | 235 | 232 | 0 | 1.12 | 47 | 1.10 | 0.02 |
| | Bairasuli HPS(3*60) | 180 | 179 | 183 | 50 | 2.86 | 119 | 2.74 | 0.12 |
| | Salal-HPS (6*115) | 690 | 374 | 505 | 451 | 9.51 | 396 | 9.04 | 0.48 |
| | Tanakpur-HPS (3*40) | 94 | 15 | 14 | 15 | 0.39 | 16 | 0.37 | 0.02 |
| | Uri-I HPS (4*120) | 480 | 474 | 470 | 471 | 11.45 | 471 | 11.38 | 0.07 |
| | Uri-II HPS (4*60) | 240 | 209 | 225 | 225 | 5.02 | 209 | 5.02 | 0.00 |
| | Dhauliganga-HPS (4*70) | 280 | 210 | 214 | 0 | 0.65 | 27 | 0.63 | 0.02 |
| | Dulhasi-HPS (3*130) | 390 | 387 | 405 | 0 | 3.69 | 154 | 3.50 | 0.19 |
| | Sewa-II HPS (3*40) | 120 | 119 | 125 | 125 | 2.98 | 124 | 2.86 | 0.12 |
| Parbati 3 (4*130) | 520 | 138 | 131 | 0 | 0.61 | 25 | 0.58 | 0.03 | |
| Sub Total (C) | 4065 | 3175 | 3332 | 1337 | 45 | 1894 | 44 | 1 | |
| D.SJVNL | NJPC (6*250) | 1500 | 1350 | 1200 | 0 | 6.60 | 275 | 6.60 | 0.00 |
| | Rampur HEP (6*68.67) | 412 | 375 | 362 | 0 | 1.87 | 78 | 1.84 | 0.03 |
| | Sub Total (D) | 1912 | 1725 | 1562 | 0 | 8.47 | 353 | 8.44 | 0.03 |
| E. THDC | Tehri HPS (4*250) | 1000 | 636 | 629 | 0 | 5.64 | 235 | 5.70 | -0.06 |
| | Koteswar HPS (4*100) | 400 | 114 | 303 | 90 | 2.73 | 114 | 2.73 | 0.00 |
| | Sub Total (E) | 1400 | 750 | 932 | 90 | 8.37 | 349 | 8.43 | -0.06 |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 450 | 957 | 350 | 10.75 | 448 | 10.80 | -0.05 |
| | Dehar HPS (6*165) | 990 | 206 | 660 | 165 | 4.98 | 207 | 4.94 | 0.04 |
| | Pong HPS (6*66) | 396 | 54 | 220 | 0 | 1.24 | 52 | 1.29 | -0.05 |
| | Sub Total (F) | 2765 | 710 | 1837 | 515 | 16.97 | 707 | 17.03 | -0.06 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 0 | 0 | 0.42 | 18 | 0.40 | 0.02 |
| | 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 | 0.24 | 10 | 0.24 | 0.00 |
| | Shree Cement TPS (2*150) | 300 | 0 | 294 | 297 | 7.08 | 295 | 7.10 | -0.02 |
| | Budhil HPS(IPP) (2*35) | 70 | 0 | 0 | 0 | 0.21 | 9 | 0.21 | 0.00 |
| | Sub Total (G) | 1662 | 0 | 919 | 297 | 11.33 | 472 | 11.55 | -0.22 |
| H. Total Regional Entities (A-G) | 25237 | 17952 | 17131 | 10581 | 277.19 | 11550 | 281.01 | -3.81 | |

| 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 | 3.59 | 150 |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 0 | 0 | -0.02 | -1 |
| | Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 0 | 0 | -0.11 | -5 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 460 | 560 | 12.40 | 517 |
| | Talwandi Saboo (2*660) | 1320 | 308 | 0 | 5.30 | 221 |
| | Thermal (Total) | 5360 | 928 | 720 | 21.17 | 882 |
| | Total Hydro | 1000 | 333 | 200 | 6.65 | 277 |
| | Total Punjab | 6360 | 1261 | 920 | 27.81 | 1159 |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 0 | 0 | 0.00 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 541 | 457 | 11.38 | 474 |
| Faridabad GPS (NTPC) | | 432 | 0 | 0 | 0.00 | 0 |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 899 | 743 | 20.06 | 836 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 0 | 0 | 0.00 | 0 |
| Thermal (Total) | | 4944 | 1440 | 1200 | 31.45 | 1310 |
| Total Hydro | | 62 | 9 | 11 | 0.31 | 13 |
| Total Haryana | | 5006 | 1449 | 1211 | 31.76 | 1323 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 348 | 757 | 13.92 |
| | suratgarh TPS (6*250) | 1500 | 189 | 229 | 4.71 | 196 |
| | Chabra TPS (4*250) | 1000 | 564 | 658 | 14.14 | 589 |
| | 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 | 204 | 209 | 5.48 | 229 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 0 | 0 | 0.00 | 0 |
| | Barsingar (NLC) (2*125) | 250 | 147 | 177 | 3.93 | 164 |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 |
| | Rajwast LTPS (IPP) (8*135) | 1080 | 554 | 961 | 18.40 | 767 |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 |
| | Kalsindh Thermal(2*600) | 1200 | 805 | 633 | 19.82 | 826 |
| | Kawail(Adani) (2*660) | 1320 | 977 | 1177 | 27.23 | 1134 |
| | Thermal (Total) | 8876 | 3788 | 4801 | 108 | 4485 |
| | Total Hydro | 550 | 60 | 160 | 2.41 | 100 |
| | Wind power | 3214 | 320 | 35 | 6.74 | 281 |
| | Biomass | 99 | 29 | 29 | 0.69 | 29 |
| | Solar | 730 | 12 | 0 | 3.69 | 154 |
| | Renewable/Others (Total) | 4043 | 361 | 64 | 11.12 | 463 |
| Total Rajasthan | 13469 | 4209 | 5025 | 121.17 | 5049 | |
| UP | Anpara TPS (3*210+2*500) | 1630 | 1355 | 1333 | 25.80 | 1075 |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 410 | 433 | 9.50 | 396 |
| | Paricha TPS (2*110+2*220+2*250) | 1140 | 994 | 777 | 21.70 | 904 |
| | Panki TPS (2*105) | 210 | 63 | 68 | 1.50 | 63 |
| | Harduaganj TPS (1*60+1*105+2*250) | 665 | 328 | 331 | 7.70 | 321 |
| | Tanda TPS (NTPC) (4*110) | 440 | 382 | 380 | 9.24 | 385 |
| | Roza TPS (IPP) (4*300) | 1200 | 1080 | 926 | 24.20 | 1008 |
| | Anpara-C (IPP) (2*600) | 1200 | 1062 | 1083 | 25.70 | 1071 |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 0 | 0 | 0.00 | 0 |
| | Anpara-D(2*500) | 500 | 281 | 257 | 6.20 | 258 |
| | Lalitpur TPS(2*660) | 1320 | 392 | 222 | 6.70 | 279 |
| | Bara(2*660) | 1320 | 0 | 0 | 0.00 | 0 |
| | Thermal (Total) | 11269 | 6347 | 5810 | 138 | 5760 |
| | Vishnuparyag HPS (IPP)(4*110) | 440 | 62 | 62 | 1.50 | 63 |
| | Alakananda(4*82.5) | 330 | 0 | 71 | 0.90 | 38 |
| | Other Hydro | 527 | 92 | 205 | 2.40 | 100 |
| | Cogeneration | 981 | 600 | 600 | 14.40 | 600 |
| | Total UP | 13547 | 7101 | 6748 | 157 | 6560 |
| Uttarakhand | Total Hydro | 1398 | 463 | 253 | 8.59 | 358 |
| | Total Uttarakhand | 1398 | 463 | 253 | 8.59 | 358 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | -0.01 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 35 | 33 | 0.89 | 37 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 0 | 0 | -0.04 | -2 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (4*216+2*253) | 1370 | 250 | 250 | 5.98 | 249 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 165 | 165 | 2.99 | 125 |
| | Thermal (Total) | 2917 | 450 | 448 | 9.82 | 409 |
| | Total Delhi | 2917 | 450 | 448 | 9.82 | 409 |
| HP | Baspa HPS (IPP) (3*100) | 300 | 0 | 0 | 0.70 | 29 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.29 | 12 |
| | Other Hydro | 878 | 311 | 208 | 6.36 | 265 |
| | Total HP | 1264 | 311 | 208 | 7.35 | 306 |
| J & K | Baqilhar HPS (IPP) (3*150) | 450 | 297 | 291 | 8.22 | 342 |
| | Other Hydro/IPP | 560 | 160 | 79 | 3.06 | 127 |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1200 | 457 | 370 | 11.28 | 470 |
| Total State Control Area Generation | | 45161 | 15701 | 15183 | 375.21 | 15634 |
| J. Net Inter Regional Exchange (Import +ve) Export (-ve) | | | 5754 | 6675 | 174.20 | 7258 |
| Total Regional Availability(Gross) | | 70398 | 38586 | 32439 | 826.60 | 34442 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| Regional Entities Hydro | 12234 | 8862 | 1942 | 83.72 | 3488 |
| State Control Area Hydro | 6581 | 1787 | 1540 | 41 | 1724 |
| Total Regional Hydro | 18815 | 10649 | 3482 | 125.10 | 5213 |

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 | |
| Vindhyachal(HVDC B/B) | -50 | -50 | 0 | 150 | 0.00 | 1.36 | -1.36 |
| 765 KV Gwalior-Agra (D/C) | 2219 | 2927 | 3214 | 0 | 67.04 | 0.00 | 67.04 |
| 400 KV Zarda-Kankroli | -12 | -89 | 0 | 225 | 0.00 | 2.82 | -2.82 |
| 400 KV Zarda-Bhinmal | -63 | -41 | 36 | 216 | 0.00 | 1.66 | -1.66 |
| 220 KV Auraiya-Malanpur | -8 | -2 | 3 | 20 | 0.13 | 0.01 | 0.12 |
| 220 KV Badod-Kota/Morak | -48 | -30 | 23 | 48 | 0.00 | 0.27 | -0.27 |
| Mundra-Mohindergarh(HVDC Bipole) | 2498 | 1998 | 2506 | 0 | 59.13 | 0.00 | 59.13 |
| 400 KV Vindhyachal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 557 | 921 | 1061 | 557 | 21.92 | 0.00 | 21.92 |
| Sub Total WR | 5093 | 5634 | | | 148.22 | 6.13 | 142.09 |
| Pusaali Bypass/HVDC | 400 | 400 | 400 | 0 | 9.03 | 0.00 | 9.03 |
| 400 KV MZP- GKP (D/C) | -432 | -286 | 0 | 432 | 0.00 | 5.14 | -5.14 |
| 400 KV Patna-Balia(D/C) X 2 | 160 | 155 | 373 | 0 | 6.40 | 0.00 | 6.40 |
| 400 KV B Sharif-Balia (D/C) | -145 | -106 | 26 | 145 | 0.00 | 0.99 | -0.99 |
| 765 KV Gaya-Balia | 151 | 201 | 295 | 0 | 3.09 | 0.00 | 3.09 |
| 765 KV Gaya-Varanasi -1 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 220 KV Pusaali-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 132 KV Khasa-Sahupuri | 0 | 0 | 0 | 0 | 0.96 | 0.00 | 0.96 |
| 132 KV Son Ngr-Rihand | -30 | -36 | 0 | 38 | 0.00 | 0.63 | -0.63 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -338 | -183 | 91 | 338 | 0.00 | 2.14 | -2.14 |
| 400 KV Barh -GKP (D/C) | 408 | 410 | 472 | 0 | 9.89 | 0.00 | 9.89 |
| Sub Total ER | 174 | 555 | | | 29.36 | 8.90 | 20.47 |
| +/- 800 KV BiswanathCharialli-Agra | 487 | 486 | 486 | 0 | 11.64 | 0.00 | 11.64 |
| Sub Total NER | 487 | 486 | | | 11.64 | 0.00 | 11.64 |
| Total IR Exch | 5754 | 6675 | | | 189.22 | 15.03 | 174.20 |

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

| ISGS/LT Schedule (MU) | | | Bilateral Schedule (MU) | | Power Exchange Shdl (MU) | | Wheeling (MU) | |
|-------------------------------|-------------------------|--------|-----------------------------|------------|--------------------------|---------------------------|---------------|------------|
| ER | Bhutan | Total | Through ER | Through WR | Through ER | Through WR | Through ER | Through WR |
| 35.73 | 0.11 | 35.85 | 0.50 | -7.50 | 0.00 | 21.97 | 0.38 | -0.38 |
| 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 |
| 36.73 | 136.72 | 173.45 | 32.10 | 142.09 | 174.20 | -4.62 | 5.37 | 0.75 |

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 - Mahendagar | -28 | -28 | 0 | 31 | 0 | 1 | -0.68 |

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 | 0.32 | 6.79 | 42.94 | 68.58 | 16.96 | 6.97 | 0.82 | 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) | (Hz) | | |
| 50.31 | 0.75 | 49.77 | 0.01 | 50.01 | 0.049 | 0.070 | 50.24 | 49.94 | 31.42 |

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 | 403 | 02:56 | 398 | 11:41 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 415 | 12:59 | 396 | 18:53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly(PG)400kV | 400 | 415 | 13:03 | 399 | 19:09 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 418 | 16:03 | 402 | 19:09 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 422 | 01:54 | 405 | 09:15 | 0.0 | 0.0 | 11.9 | 0.0 | 11.9 |
| Balabgarh | 400 | 430 | 04:01 | 411 | 09:15 | 0.0 | 0.0 | 54.6 | 0.0 | 54.6 |
| Bawana | 400 | 426 | 01:57 | 409 | 09:14 | 0.0 | 0.0 | 42.0 | 0.0 | 42.0 |
| Bassi | 400 | 427 | 18:01 | 404 | 09:15 | 0.0 | 0.0 | 9.8 | 0.0 | 9.8 |
| Hissar | 400 | 423 | 13:01 | 405 | 09:15 | 0.0 | 0.0 | 8.1 | 0.0 | 8.1 |
| Moga | 400 | 423 | 13:00 | 401 | 19:21 | 0.0 | 0.0 | 2.6 | 0.0 | 2.6 |
| Abdullapur | 400 | 429 | 13:02 | 406 | 19:08 | 0.0 | 0.0 | 43.5 | 0.0 | 43.5 |
| Nalagarh | 400 | 436 | 13:05 | 412 | 19:09 | 0.0 | 0.0 | 78.7 | 18.6 | 78.7 |
| Kishenpur | 400 | 424 | 00:14 | 395 | 19:20 | 0.0 | 0.0 | 16.2 | 0.0 | 16.2 |
| Wagoora | 400 | 403 | 13:01 | 367 | 19:22 | 17.5 | 46.1 | 0.0 | 0.0 | 17.5 |
| Amritsar | 400 | 431 | 13:02 | 409 | 07:28 | 0.0 | 0.0 | 61.5 | 0.7 | 61.5 |
| Kashipur | 400 | 0 | 00:00 | 0 | 00:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 429 | 17:01 | 411 | 19:55 | 0.0 | 0.0 | 59.2 | 0.0 | 59.2 |
| Rishikesh | 400 | 0 | 00:00 | 0 | 00:00 | 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 | 774 | 16:04 | 744 | 21:02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 764 | 13:00 | 737 | 19:09 | 0.0 | 3.8 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 806 | 16:04 | 765 | 19:09 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Agra | 765 | 795 | 18:02 | 758 | 09:15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 804 | 13:01 | 771 | 09:15 | 0.0 | 0.0 | 13.4 | 0.0 | 13.4 |
| Unnao | 765 | 761 | 18:02 | 736 | 21:03 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 779 | 13:03 | 751 | 21:04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 811 | 16:04 | 763 | 09:15 | 0.0 | 0.0 | 17.3 | 0.0 | 17.3 |
| Jhatikara | 765 | 808 | 18:04 | 770 | 09:19 | 0.0 | 0.0 | 18.4 | 0.0 | 18.4 |
| Bareilly 765 kV | 765 | 781 | 16:03 | 752 | 19:09 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 780 | 18:01 | 762 | 09:04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 793 | 18:01 | 762 | 09:07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Note : "0" in Max / Min Col -> Telemetry Outage

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 | 481.79 | 503.43 | 480.50 | 468.02 | 232.25 | 338.27 |
| Pong | 426.72 | 384.05 | 396.83 | 157.28 | 402.30 | 273.51 | 74.78 | 95.14 |
| Tehri | 829.79 | 740.04 | 758.60 | 110.08 | 776.00 | 274.18 | 40.63 | 188.00 |
| Koteswar | 612.50 | 598.50 | 610.86 | 4.95 | 611.20 | 5.20 | 188.00 | 179.99 |
| Chamera-I | 760.00 | 748.75 | 0.00 | 0.00 | 0.00 | 0.00 | 129.53 | 143.60 |
| Rihand | 268.22 | 252.98 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 497.34 | 4.44 | 507.73 | 4.72 | 197.20 | 276.56 |

* 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 | 0 | 145 | 0 | -708 | 177 | 0 | -2.53 | 4.66 | 2.13 |
| Delhi | -711 | -181 | 0 | -631 | 80 | 0 | -15.58 | 2.48 | -13.10 |
| Haryana | -167 | 74 | 0 | -192 | 215 | 0 | -5.89 | 2.40 | -3.49 |
| HP | 30 | 91 | 0 | 132 | -371 | 0 | 3.34 | -1.59 | 1.75 |
| J&K | 397 | -21 | 0 | 311 | 17 | 0 | 7.66 | -1.10 | 6.56 |
| CHD | 0 | -15 | 0 | 0 | -15 | 0 | 0.00 | -0.27 | -0.27 |
| Rajasthan | -7 | 544 | 0 | -7 | 334 | 0 | 0.63 | 9.12 | 9.75 |
| UP | 155 | 777 | 0 | 342 | 679 | 0 | 2.08 | 8.49 | 10.57 |
| Uttarakhand | 194 | 137 | 0 | 194 | 160 | 0 | 4.82 | 3.42 | 8.25 |
| Total | -110 | 1550 | 0 | -559 | 1276 | 0 | -5.47 | 27.62 | 22.15 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 0 | -708 | 268 | -263 | 0 | 0 |
| Delhi | -557 | -757 | 484 | -191 | 0 | 0 |
| Haryana | -167 | -577 | 270 | -463 | 0 | 0 |
| HP | 242 | 30 | 133 | -610 | 0 | 0 |
| J&K | 397 | 235 | 17 | -249 | 0 | 0 |
| CHD | 0 | 0 | 0 | -40 | 0 | 0 |
| Rajasthan | 189 | -7 | 545 | -106 | 0 | 0 |
| UP | 380 | -80 | 777 | 0 | 0 | 0 |
| Uttarakhand | 223 | 194 | 257 | 59 | 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 | 2.08% |

(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 23.03.2016 :

Normal

XV. Synchronisation of new generating units :

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

0.00
0.00
0.00

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :