

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिशिंग की पूर्ण स्वायत्तता प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 01.04.2016

Date of Reporting : 02.04.2016



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 |
| 35798 | 1484 | 37283 | 49.91 | 33248 | 283 | 33531 | 50.07 | 853.4 | 30.82 |

* 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 | | Actual Drawal | UI | Consumption | Shortages * |
|-------------|--|-------|---------------------|--------|-----------------|----------|---------------|----------|-------------|-------------|
| | Thermal | Hydro | Renewable/others \$ | Total | (Net MU) | (Net MU) | (Net MU) | (Net MU) | (Net MU) | (MU) |
| Punjab | 47.61 | 7.68 | | 55.29 | 59.30 | 58.04 | -1.26 | 113.33 | 0.00 | |
| Haryana | 21.42 | 0.19 | | 21.61 | 87.51 | 86.83 | -0.68 | 108.45 | 0.00 | |
| Rajasthan | 111.45 | 0.76 | 10.03 | 122.23 | 56.65 | 58.00 | 1.34 | 180.23 | 0.00 | |
| Delhi | 6.84 | | | 6.84 | 66.37 | 66.81 | 0.44 | 73.65 | 0.16 | |
| UP | 166.07 | 3.15 | | 169.22 | 108.07 | 106.97 | -1.10 | 276.19 | 18.77 | |
| Uttarakhand | | 7.58 | | 7.58 | 23.41 | 25.86 | 2.45 | 33.44 | 0.08 | |
| HP | | 8.04 | | 8.04 | 14.66 | 14.63 | -0.02 | 22.67 | 0.00 | |
| J & K | | 14.49 | 0.00 | 14.49 | 24.53 | 27.19 | 2.66 | 41.68 | 11.81 | |
| Chandigarh | | | | 0.00 | 3.91 | 3.82 | 0.27 | 3.82 | 0.00 | |
| Total | 353.39 | 41.88 | 10.03 | 405.30 | 444.41 | 448.14 | 4.09 | 853.45 | 30.82 | |

* 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 | 4709 | 0 | -189 | -269 | 3677 | 0 | 15 | 222 | 5531 |
| Haryana | 5517 | 0 | 24 | 621 | 3397 | 0 | -120 | -229 | 6145 |
| Rajasthan | 6493 | 0 | -162 | 476 | 7322 | 0 | 85 | 506 | 8109 |
| Delhi | 3484 | 0 | -49 | 184 | 2384 | 0 | 75 | -533 | 3696 |
| UP | 11027 | 1020 | -382 | 202 | 12831 | 0 | 56 | 1454 | 12846 |
| Uttarakhand | 1593 | 0 | 175 | 473 | 1195 | 0 | 138 | 398 | 1663 |
| HP | 924 | 0 | -6 | -50 | 733 | 0 | 52 | 166 | 1185 |
| J&K | 1857 | 464 | 163 | -45 | 1605 | 283 | 150 | -81 | 2029 |
| Chandigarh | 194 | 0 | -6 | 0 | 104 | 0 | -5 | 0 | 195 |
| Total | 35798 | 1484 | -432 | 1591 | 33248 | 283 | 446 | 1902 | 39200 |

* 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 :

| | Station/ Constituent | Inst. Capacity | Declared Capacity(MW) | Peak MW (Gross) | Off Peak MW (Gross) | Energy (Net MU) | Average Sentout(MW) | Schedule Net MU | UI Net MU |
|---|----------------------------------|----------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
| | | (Effective) MW | | | | | | | |
| A. NTPC | Singrauli STPS (5*200+2*500) | 2000 | 915 | 1039 | 1027 | 22.83 | 951 | 21.78 | 1.05 |
| | Rihand I STPS (2*500) | 1000 | 725 | 814 | 806 | 17.51 | 730 | 17.18 | 0.33 |
| | Rihand II STPS (2*500) | 1000 | 946 | 1038 | 982 | 22.73 | 947 | 22.34 | 0.40 |
| | Rihand III STPS (2*500) | 1000 | 946 | 979 | 935 | 22.44 | 935 | 22.41 | 0.03 |
| | Dadri I STPS (4*210) | 840 | 815 | 542 | 594 | 10.67 | 444 | 11.02 | -0.36 |
| | Dadri II STPS (2*490) | 980 | 490 | 427 | 436 | 9.19 | 383 | 9.41 | -0.22 |
| | Unchahar I TPS (2*210) | 420 | 198 | 163 | 362 | 4.61 | 192 | 4.52 | 0.09 |
| | Unchahar II TPS (2*210) | 420 | 404 | 435 | 413 | 8.06 | 336 | 8.19 | -0.13 |
| | Unchahar III TPS (1*210) | 210 | 202 | 210 | 212 | 4.11 | 171 | 4.19 | -0.08 |
| | ISTPP (Jhajhar) (3*500) | 1500 | 950 | 400 | 342 | 8.04 | 335 | 8.12 | -0.07 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 790 | 179 | 187 | 4.23 | 176 | 4.39 | -0.16 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 265 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 648 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Dadri Solar(5) | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.02 | 0.00 |
| | Unchahar Solar(10) | 10 | 1 | 0 | 0 | 0.03 | 1 | 0.03 | 0.00 |
| | Singrauli Solar(15) | 15 | 3 | 0 | 0 | 0.07 | 3 | 0.07 | 0.00 |
| | KHEP(4*200) | 800 | 655 | 0 | 0 | 2.73 | 114 | 2.60 | 0.13 |
| | Sub Total (A) | 12112 | 8953 | 6226 | 6296 | 137 | 5719 | 136 | 1 |
| B. NPC | NAPS (2*220) | 440 | 402 | 402 | 402 | 9.65 | 402 | 9.65 | 0.00 |
| | RAPS- B (2*220) | 440 | 378 | 416 | 422 | 9.04 | 377 | 9.07 | -0.03 |
| | RAPS- C (2*220) | 440 | 415 | 443 | 450 | 9.60 | 400 | 9.96 | -0.36 |
| | Sub Total (B) | 1320 | 1195 | 1261 | 1274 | 28.28 | 1178 | 28.68 | -0.40 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 534 | 263 | 0 | 5.24 | 218 | 4.98 | 0.26 |
| | Chamera II HPS (3*100) | 300 | 300 | 288 | 0 | 2.50 | 104 | 2.31 | 0.19 |
| | Chamera III HPS (3*77) | 231 | 235 | 232 | 0 | 1.53 | 64 | 1.39 | 0.14 |
| | Bairasuli HPS(3*60) | 180 | 179 | 185 | 60 | 3.07 | 128 | 2.98 | 0.09 |
| | Salal-HPS (6*115) | 690 | 374 | 535 | 408 | 9.73 | 406 | 8.96 | 0.77 |
| | Tanakpur-HPS (3*40) | 94 | 16 | 16 | 15 | 0.46 | 19 | 0.39 | 0.07 |
| | Uri-I HPS (4*120) | 480 | 475 | 472 | 469 | 11.46 | 478 | 11.40 | 0.06 |
| | Uri-II HPS (4*60) | 240 | 203 | 181 | 221 | 4.94 | 206 | 4.87 | 0.06 |
| | Dhauliganga-HPS (4*70) | 280 | 280 | 287 | 0 | 0.97 | 41 | 0.84 | 0.13 |
| | Dulhasti-HPS (3*130) | 390 | 387 | 406 | 0 | 5.93 | 247 | 5.67 | 0.26 |
| | Sewa-II HPS (3*40) | 120 | 119 | 127 | 125 | 2.99 | 125 | 2.86 | 0.13 |
| | Parbati 3 (4*130) | 520 | 152 | 264 | 0 | 0.87 | 36 | 0.83 | 0.04 |
| | Sub Total (C) | 4065 | 3254 | 3256 | 1299 | 50 | 2070 | 47 | 2 |
| D. SJVNL | NJPC (6*250) | 1500 | 1499 | 1346 | 0 | 8.54 | 356 | 8.57 | -0.03 |
| | Rampur HEP (6*68.67) | 412 | 375 | 375 | 0 | 2.50 | 104 | 2.39 | 0.11 |
| | Sub Total (D) | 1912 | 1874 | 1721 | 0 | 11.05 | 460 | 10.97 | 0.08 |
| E. THDC | Tehri HPS (4*250) | 1000 | 447 | 447 | 0 | 4.45 | 185 | 4.40 | 0.05 |
| | Koteshwar HPS (4*100) | 400 | 92 | 92 | 90 | 2.24 | 93 | 2.20 | 0.04 |
| | Sub Total (E) | 1400 | 539 | 539 | 90 | 6.68 | 278 | 6.60 | 0.08 |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 477 | 1018 | 399 | 11.99 | 500 | 11.45 | 0.55 |
| | Dehar HPS (6*165) | 990 | 253 | 660 | 165 | 5.83 | 243 | 6.06 | -0.23 |
| | Pong HPS (6*66) | 396 | 182 | 270 | 54 | 4.23 | 176 | 4.37 | -0.14 |
| | Sub Total (F) | 2765 | 911 | 1948 | 618 | 22.05 | 919 | 21.87 | 0.18 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 41 | 0 | 0.80 | 33 | 0.77 | 0.04 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 740 | 150 | 3.38 | 141 | 4.59 | -1.21 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.41 | 17 | 0.38 | 0.03 |
| | Shree Cement TPS (2*150) | 300 | 0 | 294 | 293 | 7.03 | 293 | 7.08 | -0.04 |
| | Budhil HPS(IPP) (2*35) | 70 | 0 | 0 | 0 | 0.30 | 13 | 0.28 | 0.03 |
| | Sub Total (G) | 1662 | 0 | 1075 | 443 | 11.92 | 497 | 13.09 | -1.16 |
| H. Total Regional Entities (A-G) | | 25237 | 16726 | 16025 | 10020 | 266.93 | 11122 | 264.96 | 1.97 |

| 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 | 3.49 | 146 |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 190 | 201 | 4.27 | 178 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 585 | 563 | 13.17 | 549 |
| | Goindwal(GVK) | | 0 | 278 | 3.90 | 163 |
| | Rajpura (2*700) | 1400 | 330 | 330 | 10.78 | 449 |
| | Talwandi Saboo (2*660) | 1320 | 614 | 308 | 11.99 | 500 |
| | Thermal (Total) | 5360 | 1879 | 1840 | 47.61 | 1984 |
| | Total Hydro | 1000 | 289 | 247 | 7.68 | 320 |
| | Total Punjab | 6360 | 2168 | 2087 | 55.29 | 2304 |
| Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 0 | 0 | 0.00 | 0 |
| | DCRTPP (Yamuna nagar) (2*300) | 600 | 520 | 475 | 11.43 | 476 |
| | Faridabad GPS (NTPC) | 432 | 0 | 0 | 0.03 | 1 |
| | RGTPP (khedar) (IPP) (2*600) | 1200 | 470 | 398 | 9.96 | 415 |
| | Magnum Diesel (IPP) | 25 | 0 | 0 | 0.00 | 0 |
| | Jhajjar(CLP) (2*660) | 1320 | 0 | 0 | 0.00 | 0 |
| | Thermal (Total) | 4944 | 990 | 873 | 21.42 | 893 |
| | Total Hydro | 62 | 0 | 13 | 0.19 | 8 |
| | Total Haryana | 5006 | 990 | 886 | 21.61 | 901 |
| Rajasthan | kota TPS (2*110+2*195+3*210) | 1240 | 690 | 959 | 19.02 | 793 |
| | suratgarh TPS (6*250) | 1500 | 191 | 193 | 4.69 | 195 |
| | Chabra TPS (4*250) | 1000 | 567 | 557 | 14.93 | 622 |
| | 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 | 168 | 168 | 3.66 | 153 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 0 | 0 | 0.00 | 0 |
| | Barsingsar (NLC) (2*125) | 250 | 161 | 159 | 3.66 | 153 |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 |
| | Rajwest LTPS (IPP) (6*135) | 1080 | 544 | 561 | 16.53 | 689 |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 |
| | Kalsindh Thermal(2*600) | 1200 | 875 | 813 | 21.95 | 914 |
| | Kawail(Adani) (2*660) | 1320 | 1051 | 1051 | 27.01 | 1125 |
| | Thermal (Total) | 8876 | 4247 | 4461 | 111 | 4644 |
| | Total Hydro | 550 | 22 | 22 | 0.76 | 32 |
| | Wind power | 3214 | 187 | 501 | 6.37 | 265 |
| | Biomass | 99 | 19 | 19 | 0.47 | 19 |
| | Solar | 730 | 0 | 0 | 3.19 | 133 |
| | Renewable/Others (Total) | 4043 | 206 | 520 | 10.03 | 418 |
| | Total Rajasthan | 13469 | 4475 | 5003 | 122.23 | 5093 |
| UP | Anpara TPS (3*210+2*500) | 1630 | 1225 | 1225 | 29.30 | 1221 |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 446 | 458 | 10.64 | 443 |
| | Paricha TPS (2*110+2*220+2*250) | 1140 | 968 | 985 | 23.21 | 967 |
| | Panki TPS (2*105) | 210 | 45 | 77 | 1.47 | 61 |
| | Harduaganj TPS (1*60+1*105+2*250) | 665 | 545 | 538 | 12.73 | 530 |
| | Tanda TPS (NTPC) (4*110) | 440 | 380 | 382 | 9.17 | 382 |
| | Roza TPS (IPP) (4*300) | 1200 | 1107 | 1085 | 24.12 | 1005 |
| | Anpara-C (IPP) (2*600) | 1200 | 1084 | 1080 | 25.90 | 1079 |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 404 | 403 | 7.91 | 330 |
| | Anpara-D(2*500) | 500 | 212 | 110 | 3.98 | 166 |
| | Lalitpur TPS(2*660) | 1320 | 197 | 201 | 5.64 | 235 |
| | Bara(2*660) | 1320 | 0 | 0 | 0.00 | 0 |
| | Thermal (Total) | 11269 | 6613 | 6544 | 154 | 6420 |
| | Vishnuparyag HPS (IPP)(4*110) | 440 | 82 | 70 | 1.70 | 71 |
| | Alakananada(4*82.5) | 330 | 76 | 75 | 1.07 | 45 |
| | Other Hydro | 527 | 40 | 2 | 0.38 | 16 |
| | Cogeneration | 981 | 500 | 500 | 12.00 | 500 |
| | Total UP | 13547 | 7311 | 7191 | 169 | 7051 |
| Uttarakhand | Total Hydro | 1398 | 436 | 213 | 7.58 | 316 |
| | Total Uttarakhand | 1398 | 436 | 213 | 7.58 | 316 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 32 | 39 | 0.90 | 38 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 149 | 0 | 2.51 | 104 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (4*216+2*253) | 1370 | 0 | 0 | 0.00 | 0 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 165 | 165 | 3.43 | 143 |
| | Thermal (Total) | 2917 | 346 | 204 | 6.84 | 285 |
| | Total Delhi | 2917 | 346 | 204 | 6.84 | 285 |
| HP | Baspa HPS (IPP) (3*100) | 300 | 0 | 0 | 0.95 | 39 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.38 | 16 |
| | Other Hydro | 878 | 313 | 243 | 6.71 | 280 |
| | Total HP | 1264 | 313 | 243 | 8.04 | 335 |
| J & K | Baglihar HPS (IPP) (3*150) | 450 | 440 | 440 | 10.56 | 440 |
| | Other Hydro/IPP | 560 | 156 | 153 | 3.93 | 164 |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1200 | 596 | 593 | 14.49 | 604 |
| Total State Control Area Generation | | 45161 | 16635 | 16420 | 405.30 | 16888 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 7040 | 8523 | 193.49 | 8062 |
| Total Regional Availability(Gross) | | 70398 | 39700 | 34963 | 865.72 | 36072 |

IV. Total Hydro Generation:

| | | | | | |
|--------------------------|-------|-------|------|--------|------|
| Regional Entities Hydro | 12234 | 8245 | 2157 | 96.78 | 4033 |
| State Control Area Hydro | 6581 | 1854 | 1478 | 42 | 1745 |
| Total Regional Hydro | 18815 | 10099 | 3635 | 138.66 | 5778 |

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) | 250 | 250 | 250 | 0 | 6.01 | 0.00 | 6.01 |
| 765 KV Gwalior-Agra (D/C) | 2659 | 2949 | 3311 | 0 | 70.00 | 0.00 | 70.00 |
| 400 KV Zerda-Kankroli | -37 | -181 | 22 | 181 | 0.00 | 1.92 | -1.92 |
| 400 KV Zerda-Bhinmal | 21 | -130 | 127 | 150 | 0.00 | 0.43 | -0.43 |
| 220 KV Auraiya-Malanpur | 6 | 19 | 23 | 0 | 0.90 | 0.00 | 0.90 |
| 220 KV Badod-Kota/Morak | -48 | -15 | 21 | 67 | 0.00 | 0.56 | -0.56 |
| Mundra-Mohindergarh(HVDC Bipole) | 2498 | 2503 | 2507 | 0 | 60.74 | 0.00 | 60.74 |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 899 | 900 | 1047 | 0 | 21.36 | 0.00 | 21.36 |
| Sub Total WR | 6248 | 6295 | | | 159.02 | 2.91 | 156.10 |
| Pusauli Bypass/HVDC | 250 | 250 | 250 | 0 | 6.02 | 0.00 | 6.02 |
| 400 KV MZP- GKP (D/C) | 432 | -104 | 442 | 120 | 4.79 | 0.00 | 4.79 |
| 400 KV Patna-Balia(D/C) X 2 | 243 | 593 | 626 | 0 | 9.41 | 0.00 | 9.41 |
| 400 KV B'Sharif-Balia (D/C) | 99 | 359 | 383 | 0 | 5.78 | 0.00 | 5.78 |
| 765 KV Gaya-Balia | 252 | 317 | 369 | 0 | 3.85 | 0.00 | 3.85 |
| 765 KV Gaya-Varanasi -1 | -6 | 228 | 126 | 0 | 1.85 | 0.00 | 1.85 |
| 220 KV Pusauli-Sahupuri | 130 | 160 | 197 | 0 | 3.54 | 0.00 | 3.54 |
| 132 KV K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 132 KV Son Ngr-Rihand | -27 | -30 | 0 | 30 | 0.00 | 0.59 | -0.59 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -258 | -95 | 31 | 258 | 0.00 | 2.09 | -2.09 |
| 400 KV Barh -GKP (D/C) | 328 | 250 | 350 | 0 | 6.68 | 0.00 | 6.68 |
| 400 kvB'Sharif - Varanasi (D/C) | -191 | -200 | 0 | 226 | 0.00 | 2.01 | -2.01 |
| Sub Total ER | 1252 | 1728 | | | 41.93 | 4.69 | 37.24 |
| +/- 800 KV BiswanathCharialli-Agra | -460 | 500 | 500 | 500 | 0.15 | 0.00 | 0.15 |
| Sub Total NER | -460 | 500 | | | 0.15 | 0.00 | 0.15 |
| Total IR Exch | 7040 | 8523 | | | 201.09 | 7.60 | 193.49 |

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 |
| 36.63 | 0.27 | 36.90 | 2.12 | -1.90 | 5.62 | 28.76 | 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 |
| 44.65 | 153.77 | 198.41 | 37.38 | 156.10 | 193.49 | -7.26 | 2.34 | -4.92 |

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 - Mahendamaragar | -31 | -30 | 0 | 33 | 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 | 1.64 | 14.09 | 58.56 | 72.07 | 10.96 | 3.09 | 0.30 | 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) | |
| 50.32 | 18.02 | 49.72 | 19.10 | 49.98 | 0.060 | 0.074 | 50.16 | 49.91 | 27.93 |

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 | 404 | 00:00 | 398 | 21:16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 420 | 08:06 | 410 | 01:07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly(PG)400kV | 400 | 417 | 18:02 | 400 | 11:40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 417 | 08:02 | 403 | 11:17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 422 | 02:00 | 403 | 11:42 | 0.0 | 0.0 | 12.4 | 0.0 | 12.4 |
| Ballaahgarh | 400 | 428 | 02:54 | 406 | 11:44 | 0.0 | 0.0 | 43.1 | 0.0 | 43.1 |
| Bawana | 400 | 426 | 02:54 | 406 | 11:35 | 0.0 | 0.0 | 31.9 | 0.0 | 31.9 |
| Bassi | 400 | 424 | 18:01 | 401 | 11:44 | 0.0 | 0.0 | 3.3 | 0.0 | 3.3 |
| Hissar | 400 | 421 | 02:01 | 340 | 17:37 | 0.0 | 0.0 | 1.6 | 0.0 | 1.6 |
| Moga | 400 | 418 | 05:31 | 403 | 11:35 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 425 | 21:37 | 408 | 19:09 | 0.0 | 0.0 | 25.5 | 0.0 | 25.5 |
| Nalagarh | 400 | 428 | 02:52 | 410 | 11:35 | 0.0 | 0.0 | 40.3 | 0.0 | 40.3 |
| Kishenpur | 400 | 421 | 03:24 | 400 | 19:19 | 0.0 | 0.0 | 0.9 | 0.0 | 0.9 |
| Wagoor | 400 | 407 | 03:50 | 383 | 19:17 | 0.0 | 20.9 | 0.0 | 0.0 | 0.0 |
| Amritsar | 400 | 424 | 02:54 | 404 | 09:17 | 0.0 | 0.0 | 19.0 | 0.0 | 19.0 |
| Kashipur | 400 | 420 | 18:02 | 411 | 11:16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 422 | 02:05 | 403 | 11:41 | 0.0 | 0.0 | 12.4 | 0.0 | 12.4 |
| Rishikesh | 400 | 413 | 18:02 | 388 | 11:16 | 0.0 | 2.8 | 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 | 768 | 07:20 | 736 | 11:17 | 0.0 | 7.6 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 778 | 08:06 | 760 | 19:10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 799 | 18:01 | 768 | 11:43 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 785 | 18:01 | 751 | 11:42 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 798 | 02:00 | 769 | 11:30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unnao | 765 | 760 | 08:04 | 742 | 11:16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 785 | 18:02 | 765 | 11:17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 807 | 18:01 | 769 | 11:44 | 0.0 | 0.0 | 15.4 | 0.0 | 15.4 |
| Jhatikara | 765 | 801 | 02:00 | 766 | 11:48 | 0.0 | 0.0 | 11.8 | 0.0 | 11.8 |
| Bareilly 765 kV | 765 | 784 | 18:02 | 756 | 11:12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 776 | 01:54 | 758 | 10:52 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 784 | 02:53 | 766 | 09:09 | 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 | 480.14 | 461.24 | 480.68 | 474.82 | 198.08 | 363.87 |
| Pong | 426.72 | 384.05 | 395.99 | 141.12 | 402.92 | 288.96 | 52.10 | 330.46 |
| Tehri | 829.79 | 740.04 | 753.50 | 76.98 | 773.25 | 240.42 | 46.97 | 152.00 |
| Koteshwar | 612.50 | 598.50 | 610.93 | 5.10 | 611.15 | 5.05 | 152.00 | 147.35 |
| Chamera-I | 760.00 | 748.75 | 759.24 | 0.00 | 0.00 | 0.00 | 151.18 | 144.14 |
| 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 | 496.70 | 0.44 | 510.03 | 2.87 | 66.17 | 0.00 |

* 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 | 9 | 212 | 0 | -404 | 135 | 0 | -1.42 | 4.44 | 3.02 |
| Delhi | -303 | -230 | 0 | -177 | 361 | 0 | -5.00 | 4.20 | -0.80 |
| Haryana | 466 | -695 | 0 | 368 | 252 | 0 | 9.30 | -2.12 | 7.18 |
| HP | -127 | 292 | 0 | -25 | -25 | 0 | -1.79 | 3.43 | 1.64 |
| J&K | -81 | 0 | 0 | -81 | 36 | 0 | -1.64 | -0.13 | -1.76 |
| CHD | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.01 | 0.01 |
| Rajasthan | -4 | 510 | 0 | -4 | 481 | 0 | -0.10 | 10.05 | 9.95 |
| UP | 288 | 1167 | 0 | 202 | 0 | 0 | 4.90 | 8.90 | 13.80 |
| Uttarakhand | 0 | 398 | 0 | 0 | 473 | 0 | 0.23 | 11.05 | 11.28 |
| Total | 248 | 1654 | 0 | -122 | 1712 | 0 | 4.48 | 39.83 | 44.31 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 9 | -404 | 212 | 134 | 0 | 0 |
| Delhi | -177 | -303 | 526 | -281 | 0 | 0 |
| Haryana | 466 | 293 | 261 | -780 | 0 | 0 |
| HP | -25 | -254 | 390 | -432 | 0 | 0 |
| J&K | -7 | -81 | 36 | -13 | 0 | 0 |
| CHD | 0 | 0 | 30 | -25 | 0 | 0 |
| Rajasthan | -4 | -4 | 518 | -221 | 0 | 0 |
| UP | 308 | 143 | 1167 | 0 | 0 | 0 |
| Uttarakhand | 29 | 0 | 543 | 374 | 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 | 1.74% |
| ER | 0.00% |
| Simultaneous | 31.25% |

(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 01.04.2016 :

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
0.00

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :