

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसईसी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188692

Power Supply Position in Northern Region for 26.04.2016

Date of Reporting : 27.04.2016



I. Regional Availability/Demand:

| Evening Peak (20:00 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 |
| 42423 | 2359 | 44782 | 50.04 | 39737 | 1839 | 41576 | 50.04 | 937.6 | 21.14 |

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

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

| State | State's Control Area Generation (Net MU) | | | | Drawal Schedule (Net MU) | Actual Drawal (Net MU) | UI (Net MU) | Consumption (Net MU) | Shortages * (MU) |
|--------------|--|--------------|---------------------|---------------|--------------------------|------------------------|-------------|----------------------|------------------|
| | Thermal | Hydro | Renewable/others \$ | Total | | | | | |
| Punjab | 53.21 | 7.70 | | 60.91 | 62.73 | 62.29 | -0.43 | 123.20 | 0.00 |
| Haryana | 44.41 | 0.37 | | 44.78 | 87.90 | 86.65 | -1.25 | 131.43 | 0.00 |
| Rajasthan | 139.87 | 0.00 | 10.92 | 150.79 | 42.46 | 42.39 | -0.06 | 193.18 | 0.61 |
| Delhi | 20.33 | | | 20.33 | 71.22 | 70.68 | -0.54 | 91.00 | 0.12 |
| UP | 173.43 | 5.70 | | 179.13 | 115.11 | 114.64 | -0.47 | 293.77 | 4.67 |
| Uttarakhand | | 9.62 | | 9.62 | 26.57 | 28.11 | 1.55 | 37.73 | 0.36 |
| HP | | 7.86 | | 7.86 | 12.25 | 14.05 | 1.80 | 21.91 | 1.70 |
| J & K | | 10.92 | 0.00 | 10.92 | 22.96 | 29.77 | 6.81 | 40.70 | 13.68 |
| Chandigarh | | | | 0.00 | 4.99 | 4.64 | 0.27 | 4.64 | 0.00 |
| Total | 431.25 | 42.16 | 10.92 | 484.33 | 446.18 | 453.23 | 7.67 | 937.56 | 21.14 |

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

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

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

| State | Evening Peak (20:00 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 | 5536 | 0 | -66 | -138 | 5244 | 0 | 5 | 193 | 5931 |
| Haryana | 6865 | 0 | -126 | 382 | 6195 | 0 | 180 | 535 | 6883 |
| Rajasthan | 7846 | 0 | -144 | 52 | 8089 | 0 | 16 | -207 | 8690 |
| Delhi | 4007 | 2 | -86 | -1 | 3715 | 0 | 86 | -288 | 4400 |
| UP | 13136 | 1810 | 5 | 649 | 12864 | 1415 | 127 | 1522 | 13767 |
| Uttarakhand | 1848 | 0 | 90 | 594 | 1383 | 0 | -24 | 526 | 1848 |
| HP | 990 | 54 | 113 | -668 | 517 | 147 | 99 | -326 | 1210 |
| J&K | 1971 | 493 | 59 | -21 | 1570 | 277 | 405 | -133 | 1994 |
| Chandigarh | 225 | 0 | -7 | 0 | 161 | 0 | -7 | 15 | 249 |
| Total | 42423 | 2359 | -163 | 849 | 39737 | 1839 | 887 | 1837 | 42768 |

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

Diversity is 1.05

III. Regional Entities :

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

| A. NTPC | Station/ Constituent | Inst. Capacity (Effective) MW | Declared Capacity(MW) | Peak MW (Gross) | Off Peak MW (Gross) | Energy (Net MU) | Average Sentout(MW) | Schedule Net MU | UI Net MU |
|---|----------------------------------|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
| | | Singrauli STPS (5*200+2*500) | 2000 | 915 | 1049 | 1037 | 23.09 | 962 | 21.83 |
| | Rihand I STPS (2*500) | 1000 | 800 | 895 | 885 | 19.33 | 805 | 18.98 | 0.35 |
| | Rihand II STPS (2*500) | 1000 | 948 | 1026 | 1043 | 23.28 | 970 | 22.59 | 0.69 |
| | Rihand III STPS (2*500) | 1000 | 463 | 511 | 517 | 11.58 | 483 | 11.05 | 0.54 |
| | Dadri I STPS (4*210) | 840 | 805 | 782 | 567 | 15.19 | 633 | 15.31 | -0.13 |
| | Dadri II STPS (2*490) | 980 | 480 | 443 | 430 | 10.41 | 434 | 11.02 | -0.60 |
| | Unchahar I TPS (2*210) | 420 | 338 | 365 | 377 | 8.17 | 341 | 8.02 | 0.16 |
| | Unchahar II TPS (2*210) | 420 | 100 | 0 | 219 | 2.09 | 87 | 2.27 | -0.19 |
| | Unchahar III TPS (1*210) | 210 | 196 | 204 | 219 | 4.63 | 193 | 4.53 | 0.10 |
| | ISTPP (Jhajjhar) (3*500) | 1500 | 950 | 877 | 640 | 18.56 | 774 | 18.84 | -0.27 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 772 | 357 | 391 | 8.41 | 351 | 8.58 | -0.16 |
| | Anta GPS (3*88.71+1*153.2) | 419 | 265 | 0 | 0 | 0.00 | 0 | 0.02 | -0.02 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 621 | 150 | 156 | 3.51 | 146 | 3.53 | -0.02 |
| | Dadri Solar(5) | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.02 | 0.00 |
| | Unchahar Solar(10) | 10 | 2 | 0 | 0 | 0.04 | 2 | 0.04 | 0.00 |
| | Singrauli Solar(15) | 15 | 3 | 0 | 0 | 0.06 | 3 | 0.06 | 0.00 |
| | KHEP(4*200) | 800 | 655 | 654 | 0 | 4.46 | 186 | 4.00 | 0.46 |
| | Sub Total (A) | 12112 | 8314 | 7313 | 6481 | 153 | 6368 | 151 | 2 |
| B. NPC | NAPS (2*220) | 440 | 397 | 424 | 437 | 9.36 | 390 | 9.53 | -0.17 |
| | RAPS- B (2*220) | 440 | 370 | 409 | 416 | 8.85 | 369 | 6.50 | 2.35 |
| | RAPS- C (2*220) | 440 | 415 | 441 | 446 | 9.52 | 396 | 9.96 | -0.45 |
| | Sub Total (B) | 1320 | 1182 | 1274 | 1299 | 27.72 | 1155 | 25.99 | 1.73 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 535 | 543 | 0 | 6.15 | 256 | 5.80 | 0.35 |
| | Chamera II HPS (3*100) | 300 | 300 | 291 | 0 | 2.98 | 124 | 2.72 | 0.27 |
| | Chamera III HPS (3*77) | 231 | 231 | 159 | 0 | 1.86 | 78 | 1.66 | 0.20 |
| | Bairasul HPS(3*60) | 180 | 179 | 183 | 13 | 2.19 | 91 | 2.00 | 0.20 |
| | Salal-HPS (6*115) | 690 | 254 | 446 | 306 | 7.07 | 295 | 6.21 | 0.86 |
| | Tanakpur-HPS (3*31.4) | 94 | 15 | 18 | 18 | 0.50 | 21 | 0.36 | 0.13 |
| | Uri-I HPS (4*120) | 480 | 475 | 473 | 473 | 11.49 | 479 | 11.40 | 0.09 |
| | Uri-II HPS (4*60) | 240 | 220 | 181 | 238 | 5.33 | 222 | 5.30 | 0.03 |
| | Dhauliganga-HPS (4*70) | 280 | 280 | 284 | 0 | 1.15 | 48 | 1.05 | 0.10 |
| | Dulhasti-HPS (3*130) | 390 | 387 | 327 | 265 | 6.37 | 266 | 6.01 | 0.36 |
| | Sewa-II HPS (3*40) | 120 | 119 | 129 | 0 | 0.93 | 39 | 0.70 | 0.23 |
| | Parbati 3 (4*130) | 520 | 271 | 138 | 0 | 1.07 | 45 | 1.04 | 0.03 |
| | Sub Total (C) | 4065 | 3266 | 3172 | 1313 | 47 | 1963 | 44 | 3 |
| D. SJVNL | NJPC (6*250) | 1500 | 1605 | 1243 | 0 | 9.15 | 381 | 8.78 | 0.36 |
| | Rampur HEP (6*68.67) | 412 | 375 | 375 | 0 | 2.51 | 105 | 2.40 | 0.11 |
| | Sub Total (D) | 1912 | 1980 | 1618 | 0 | 11.66 | 486 | 11.18 | 0.48 |
| E. THDC | Tehri HPS (4*250) | 1000 | 387 | 390 | 0 | 3.09 | 129 | 3.00 | 0.09 |
| | Koteshwar HPS (4*100) | 400 | 71 | 100 | 65 | 1.77 | 74 | 1.70 | 0.07 |
| | Sub Total (E) | 1400 | 458 | 490 | 65 | 4.86 | 202 | 4.70 | 0.16 |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 642 | 1173 | 372 | 15.37 | 640 | 15.40 | -0.03 |
| | Dehar HPS (6*165) | 990 | 268 | 660 | 165 | 6.66 | 278 | 6.42 | 0.24 |
| | Pong HPS (6*66) | 396 | 56 | 159 | 53 | 1.40 | 58 | 1.34 | 0.06 |
| | Sub Total (F) | 2765 | 965 | 1992 | 590 | 23.43 | 976 | 23.16 | 0.27 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*100) | 192 | 0 | 0 | 57 | 0.81 | 34 | 0.72 | 0.09 |
| | KARCHAM WANGTOO HPS(IPP) | 1000 | 0 | 680 | 150 | 4.83 | 201 | 4.97 | -0.14 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 104 | 15 | 0.47 | 19 | 0.45 | 0.01 |
| | Shree Cement TPS (2*150) | 300 | 0 | 295 | 296 | 7.02 | 292 | 6.99 | 0.03 |
| | Budhil HPS(IPP) (2*35) | 70 | 0 | 35 | 0 | 0.35 | 14 | 0.35 | 0.00 |
| | Sub Total (G) | 1662 | 0 | 1114 | 519 | 13.47 | 561 | 13.48 | 0.00 |
| H. Total Regional Entities (A-G) | | 25237 | 16165 | 16973 | 10267 | 281.08 | 11712 | 273.44 | 7.64 |

| I. State Entities | Station | Effective Installed Capacity (MW) | Peak MW | Off Peak MW | Energy(MU) | Average(Sentout MW) |
|---|---|-----------------------------------|--------------|--------------|---------------|---------------------|
| Punjab | Guru Gobind Singh TPS (Ropar) (6*210) | 1260 | 210 | 160 | 3.82 | 159 |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 103 | 112 | 1.97 | 82 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 413 | 463 | 9.67 | 403 |
| | Goindwal(GVK) (2*270) | 540 | 0 | 0 | -0.04 | -2 |
| | Rajpura (2*700) | 1400 | 1320 | 1320 | 27.78 | 1157 |
| | Talwandi Saboo (3*660) | 1980 | 308 | 614 | 10.01 | 417 |
| | Thermal (Total) | 6560 | 2354 | 2669 | 53.21 | 2217 |
| | Total Hydro | 1000 | 331 | 362 | 7.70 | 321 |
| | Total Punjab | 7560 | 2685 | 3031 | 60.91 | 2538 |
| | Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 470 | 466 | 10.24 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 522 | 515 | 11.81 | 492 |
| Faridabad GPS (NTPC)(2*137.75+1*156) | | 432 | 0 | 0 | 0.00 | 0 |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 1147 | 1153 | 22.37 | 932 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 0 | 0 | 0.00 | 0 |
| Thermal (Total) | | 4944 | 2139 | 2134 | 44.41 | 1851 |
| Total Hydro | | 62 | 20 | 24 | 0.37 | 15 |
| Total Haryana | | 5006 | 2159 | 2158 | 44.78 | 1866 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 888 | 875 | 22.04 |
| | suratgarh TPS (6*250) | 1500 | 775 | 851 | 20.23 | 843 |
| | Chabra TPS (4*250) | 1000 | 831 | 838 | 20.66 | 861 |
| | 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 | 174 | 191 | 4.67 | 195 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 0 | 0 | 0.00 | 0 |
| | Barsingsar (NLC) (2*125) | 250 | 0 | 64 | 0.37 | 16 |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 |
| | Rajwst LTPS (IPP) (8*135) | 1080 | 828 | 819 | 18.91 | 788 |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 |
| | Kalisindh Thermal(2*600) | 1200 | 920 | 918 | 24.52 | 1022 |
| | Kawai(Adani) (2*660) | 1320 | 1092 | 1206 | 28.48 | 1187 |
| | Thermal (Total) | 8876 | 5508 | 5762 | 140 | 5828 |
| | Total Hydro | 550 | 0 | 0 | 0.00 | 0 |
| | Wind power | 3214 | 52 | 688 | 7.02 | 292 |
| | Biomass | 99 | 29 | 29 | 0.68 | 29 |
| | Solar | 730 | 0 | 0 | 3.22 | 134 |
| | Renewable/Others (Total) | 4043 | 81 | 717 | 10.92 | 455 |
| | Total Rajasthan | 13469 | 5589 | 6479 | 150.79 | 6283 |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1215 | 1263 | 29.10 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 395 | 350 | 9.40 | 392 |
| Paricha TPS (2*110+2*220+2*250) | | 1160 | 891 | 842 | 18.60 | 775 |
| Panki TPS (2*105) | | 210 | 59 | 122 | 2.00 | 83 |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 551 | 552 | 13.00 | 542 |
| Tanda TPS (NTPC) (4*110) | | 440 | 393 | 390 | 9.33 | 389 |
| Roza TPS (IPP) (4*300) | | 1200 | 1099 | 1080 | 25.40 | 1058 |
| Anpara-C (IPP) (2*600) | | 1200 | 1076 | 1076 | 25.80 | 1075 |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 404 | 405 | 8.70 | 363 |
| Anpara-D(2*500) | | 1000 | 250 | 250 | 5.30 | 221 |
| Lalitpur TPS(3*660) | | 1980 | 358 | 410 | 9.20 | 383 |
| Bara(2*660) | | 1320 | 498 | 538 | 12.80 | 533 |
| Thermal (Total) | | 12449 | 7189 | 7278 | 169 | 7026 |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 86 | 93 | 2.10 | 88 |
| Alakanada(4*82.5) | | 330 | 85 | 84 | 1.10 | 46 |
| Other Hydro | | 527 | 62 | 205 | 2.50 | 104 |
| Cogeneration | | 981 | 200 | 200 | 4.80 | 200 |
| Total UP | | 14727 | 7622 | 7860 | 179 | 7464 |
| Uttarakhand | Total Hydro | 1398 | 494 | 405 | 9.62 | 401 |
| | Total Uttarakhand | 1398 | 494 | 405 | 9.62 | 401 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 32 | 32 | 0.74 | 31 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 262 | 271 | 6.46 | 269 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (4*216+2*253) | 1370 | 254 | 253 | 6.13 | 255 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 332 | 328 | 7.00 | 292 |
| | Thermal (Total) | 2917 | 880 | 884 | 20.33 | 847 |
| | Total Delhi | 2917 | 880 | 884 | 20.33 | 847 |
| HP | Baspa HPS (IPP) (3*100) | 300 | 0 | 71 | 1.44 | 60 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 17 | 0.00 | 0 |
| | Other Hydro | 878 | 250 | 264 | 6.42 | 268 |
| | Total HP | 1264 | 250 | 352 | 7.86 | 328 |
| J & K | Baglihar HPS (IPP) (3*150+2*150) | 750 | 440 | 290 | 8.67 | 361 |
| | Other Hydro/IPP | 560 | 118 | 82 | 2.25 | 94 |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1500 | 558 | 372 | 10.92 | 455 |
| Total State Control Area Generation | | 47841 | 20237 | 21540 | 484.33 | 20180 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 7121 | 8758 | 183.83 | 7660 |
| Total Regional Availability(Gross) | | 73078 | 44331 | 40565 | 949.23 | 39551 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| Regional Entities Hydro | 12234 | 8710 | 2190 | 97.61 | 4067 |
| State Control Area Hydro | 6881 | 1886 | 1897 | 42 | 1757 |
| Total Regional Hydro | 19115 | 10596 | 4087 | 139.77 | 5824 |

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

| Element | Peak(20:00 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) | 250 | 250 | 250 | 0 | 0 | 0 | 6.03 | 0.00 | 6.03 |
| 765 KV Gwalior-Agra (D/C) | 2833 | 3280 | 3395 | 0 | 0 | 0 | 71.69 | 0.00 | 71.69 |
| 400 KV Zerda-Kankroli | -145 | -240 | 0 | 355 | 0 | 0 | 0.00 | 5.45 | -5.45 |
| 400 KV Zerda-Bhinmal | -83 | -193 | 0 | 256 | 0 | 0 | 0.00 | 3.73 | -3.73 |
| 220 KV Auraiya-Malanpur | -7 | 1 | 0 | 37 | 0 | 0 | 0.26 | 0.00 | 0.26 |
| 220 KV Badod-Kota/Morak | -26 | 19 | 27 | 75 | 0 | 0 | 0.00 | 0.40 | -0.40 |
| Mundra-Mohinderghar(HVDC Bipole) | 2502 | 2498 | 2507 | 0 | 0 | 0 | 60.45 | 0.00 | 60.45 |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 566 | 917 | 935 | 0 | 0 | 0 | 16.53 | 0.00 | 16.53 |
| Sub Total WR | 5890 | 6532 | | | | | 154.96 | 9.58 | 145.38 |

| | | | | | | | |
|------------------------------------|-------------|-------------|-----|-----|---------------|--------------|---------------|
| Pusauli Bypass/HVDC | 100 | 100 | 100 | 0 | 2.48 | 0.00 | 2.48 |
| 400 KV MZP- GKP (D/C) | -122 | 16 | 128 | 184 | 0.00 | 0.18 | -0.18 |
| 400 KV Patna-Balia(D/C) X 2 | 149 | 679 | 693 | 0 | 11.14 | 0.00 | 11.14 |
| 400 KV B'Sharif-Balia (D/C) | 5 | 215 | 370 | 0 | 4.43 | 0.00 | 4.43 |
| 765 KV Gaya-Balia | 196 | 313 | 424 | 0 | 3.64 | 0.00 | 3.64 |
| 765 KV Gaya-Varanasi (D/C) | -53 | -183 | 203 | 35 | 0.77 | 0.00 | 0.77 |
| 220 KV Pusauli-Sahupuri | 179 | 171 | 196 | 0 | 3.71 | 0.00 | 3.71 |
| 132 KV K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 132 KV Son Ngr-Rihand | -26 | -24 | 0 | 27 | 0.00 | 0.54 | -0.54 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -207 | -130 | 0 | 277 | 0.00 | 3.68 | -3.68 |
| 400 KV Barh -GKP (D/C) | 316 | 500 | 524 | 0 | 8.49 | 0.00 | 8.49 |
| 400 kvB'Sharif - Varanasi (D/C) | 194 | 69 | 0 | 199 | 0.00 | 3.32 | -3.32 |
| Sub Total ER | 731 | 1726 | | | 34.65 | 7.71 | 26.94 |
| +/- 800 KV BiswanathCharialli-Agra | 500 | 500 | 487 | 0 | 11.51 | 0.00 | 11.51 |
| Sub Total NER | 500 | 500 | | | 11.51 | 0.00 | 11.51 |
| Total IR Exch | 7121 | 8758 | | | 201.12 | 17.29 | 183.83 |

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 |
| 37.15 | 0.83 | 37.97 | -4.03 | 1.30 | 2.55 | 27.95 | 0.00 | 0.00 |

| Total IR Schedule (MU) | | | Total IR Actual (MU) | | | Net IR UI (MU) | | |
|------------------------|------------------------|--------|---------------------------|------------|--------|----------------------------|------------|-------|
| Through ER | Through WR Incls Mndra | Total | Through ER(including NER) | Through WR | Total | Through ER (including NER) | Through WR | Total |
| 36.50 | 153.06 | 189.56 | 38.44 | 145.38 | 183.83 | 1.95 | -7.68 | -5.73 |

V(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

| Element | Peak(20:00 Hrs) | Off Peak(03:00 Hrs) | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|---------------------------------|-----------------|---------------------|--------------------------|--------|-------------|--------|---------------|
| | MW | MW | Import | Export | Import | Export | |
| 132 KV Tanakpur - Mahendarnagar | -28 | -30 | 0 | 33 | 0 | 1 | -0.70 |

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 | 0.56 | 8.25 | 40.20 | 85.58 | 55.42 | 3.24 | 1.15 | 0.02 | 0.00 |

| <----- Frequency (Hz) -----> | | | | Average Frequency | Frequency Variation | Std. Dev. | Frequency in 15 Min Block | | Freq Dev Index (% of Time) |
|------------------------------|-------|---------|-------|-------------------|---------------------|-----------|---------------------------|-------|----------------------------|
| Maximum | | Minimum | | | | | MAX | MIN | |
| Freq | Time | Freq | Time | Hz | Index | (Hz) | (Hz) | | |
| 50.21 | 18.02 | 49.64 | 12.18 | 49.92 | 0.137 | 50.13 | 0.00 | 44.58 | |

VII. Voltage profile 400 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Voltage Deviation Index (% of) |
|-------------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|--------------------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <380 kV | <390 kV | >420 kV | >430 kV | |
| Rihand | 400 | 407 | 18:02 | 401 | 22:13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 421 | 13:02 | 398 | 22:13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly(PG)400kV | 400 | 416 | 18:02 | 391 | 22:07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 418 | 18:01 | 395 | 22:11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 421 | 18:01 | 401 | 22:11 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 |
| Ballabgarh | 400 | 427 | 06:01 | 401 | 22:12 | 0.0 | 0.0 | 18.1 | 0.0 | 18.1 |
| Bawana | 400 | 424 | 06:02 | 401 | 22:11 | 0.0 | 0.0 | 8.9 | 0.0 | 8.9 |
| Bassi | 400 | 424 | 18:00 | 390 | 23:15 | 0.0 | 0.0 | 0.9 | 0.0 | 0.9 |
| Hissar | 400 | 424 | 18:01 | 395 | 22:07 | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 |
| Moga | 400 | 421 | 18:01 | 397 | 22:06 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 |
| Abdullapur | 400 | 428 | 18:02 | 403 | 22:13 | 0.0 | 0.0 | 16.7 | 0.0 | 16.7 |
| Nalagarh | 400 | 429 | 18:02 | 407 | 19:22 | 0.0 | 0.0 | 40.4 | 0.0 | 40.4 |
| Kishenpur | 400 | 422 | 18:02 | 395 | 22:06 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 |
| Wagooora | 400 | 411 | 18:02 | 379 | 20:19 | 1.1 | 27.5 | 0.0 | 0.0 | 1.1 |
| Amritsar | 400 | 425 | 13:29 | 403 | 22:06 | 0.0 | 0.0 | 8.6 | 0.0 | 8.6 |
| Kashipur | 400 | 419 | 18:00 | 408 | 22:04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 422 | 03:15 | 408 | 10:12 | 0.0 | 0.0 | 0.8 | 0.0 | 0.8 |
| Rishikesh | 400 | 408 | 17:59 | 377 | 22:07 | 1.0 | 43.7 | 0.0 | 0.0 | 1.0 |

VIII. Voltage profile 765 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Voltage Deviation Index (% of) |
|-----------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|--------------------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV | |
| Fatehpur | 765 | 776 | 18:02 | 726 | 22:35 | 1.4 | 18.6 | 0.0 | 0.0 | 1.4 |
| Balia | 765 | 778 | 18:02 | 739 | 22:12 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 807 | 18:02 | 758 | 22:12 | 0.0 | 0.0 | 0.8 | 0.0 | 0.8 |
| Agra | 765 | 793 | 18:02 | 739 | 22:12 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 807 | 18:02 | 759 | 22:07 | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 |
| Unnao | 765 | 765 | 18:02 | 730 | 22:12 | 0.0 | 14.2 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 786 | 18:02 | 744 | 22:12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 815 | 18:02 | 755 | 22:16 | 0.0 | 0.0 | 10.4 | 0.0 | 10.4 |
| Jhatikara | 765 | 804 | 18:02 | 754 | 22:12 | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 |
| Bareilly 765 kV | 765 | 0 | 00:00 | 0 | 00:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 778 | 18:01 | 747 | 13:45 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 788 | 18:06 | 742 | 22:12 | 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 | 476.70 | 387.82 | 483.93 | 560.76 | 246.72 | 549.35 |
| Pong | 426.72 | 384.05 | 394.56 | 116.59 | 404.91 | 336.10 | 35.28 | 107.58 |
| Tehri | 829.79 | 740.04 | 742.30 | 9.37 | 763.95 | 154.42 | 62.25 | 118.00 |
| Koteshwar | 612.50 | 598.50 | 607.81 | 3.57 | 610.89 | 4.95 | 118.00 | 116.53 |
| Chamera-I | 760.00 | 748.75 | 753.78 | 0.00 | 0.00 | 0.00 | 118.45 | 168.59 |
| 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 | 498.53 | 2.33 | 519.49 | 1.43 | 187.09 | 115.09 |

* NA: Not Available

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

| State | Off- Peak Hours (03:00 Hrs) | | | Peak Hours (20:00 Hrs) | | | Day Energy (MU) | | |
|--------------|-----------------------------|-------------|-----------|------------------------|------------|-----------|-----------------|-----------------|--------------|
| | Bilateral (MW) | IEX (MW) | PXIL (MW) | Bilateral (MW) | IEX (MW) | PXIL (MW) | Bilateral (MU) | IEX / PXIL (MU) | Total (MU) |
| Punjab | 22 | 171 | 0 | -389 | 250 | 0 | -1.11 | 7.32 | 6.21 |
| Delhi | -75 | -212 | 0 | -75 | 74 | 0 | -1.81 | 1.59 | -0.22 |
| Haryana | 232 | 303 | 0 | 81 | 301 | 0 | -1.14 | 6.00 | 4.86 |
| HP | -303 | -23 | 0 | -151 | -517 | 0 | -4.84 | -1.24 | -6.08 |
| J&K | -107 | -26 | 0 | -107 | 86 | 0 | -2.62 | -0.02 | -2.64 |
| CHD | 0 | 15 | 0 | 0 | 0 | 0 | 0.00 | 0.73 | 0.73 |
| Rajasthan | -366 | 159 | 0 | -362 | 414 | 0 | -8.76 | 9.29 | 0.53 |
| UP | 762 | 759 | 0 | 649 | 0 | 0 | 15.42 | 4.97 | 20.39 |
| Uttarakhand | 0 | 429 | 97 | 224 | 273 | 97 | 7.04 | 6.34 | 13.38 |
| Total | 164 | 1576 | 97 | -131 | 882 | 97 | 2.18 | 34.97 | 37.15 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 22 | -389 | 360 | 171 | 0 | 0 |
| Delhi | -75 | -75 | 582 | -268 | 0 | 0 |
| Haryana | 248 | -544 | 352 | 12 | 0 | 0 |
| HP | -151 | -303 | 256 | -713 | 0 | 0 |
| J&K | -107 | -123 | 86 | -26 | 0 | 0 |
| CHD | 0 | 0 | 79 | -20 | 0 | 0 |
| Rajasthan | -362 | -366 | 427 | 5 | 0 | 0 |
| UP | 836 | 571 | 975 | 0 | 0 | 0 |
| Uttarakhand | 574 | 0 | 429 | 1 | 97 | 97 |

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 | 0.35% |

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

| | |
|--------------|--------|
| WR | 0.00% |
| ER | 0.00% |
| Simultaneous | 23.61% |

(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 26.04.2016 :
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 :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.