

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिश की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 11.07.2016

Date of Reporting : 12.07.2016



I. Regional Availability/Demand:

Table with 10 columns: Demand Met, Shortage, Requirement, Freq* (Hz), Demand Met, Shortage, Requirement, Freq* (Hz), Demand Met, Shortage. Rows include Evening Peak (20:00 Hrs) MW and Off Peak (03:00 Hrs) MW.

*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:

Table with columns for State, Thermal, Hydro, Renewable/others \$, Total, Drawal Schedule (Net MU), Actual Drawal (Net MU), UI (Net MU), Consumption (Net MU), Shortages * (MU). Includes sub-total for all states.

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

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

Table with columns for State, Demand Met, Shortage, UI, STOAX/PX transaction, Demand Met, Shortage, UI, STOAX/PX transaction, Maximum Demand Met (MW) and Time(Hrs), Shortage (MW). Includes sub-total for all states.

\$ STOAX figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

Diversity is: 1.04

III. Regional Entities :

Large table with columns for Station/Constituent, Inst. Capacity, Declared Capacity(MW), Peak MW, Off Peak MW, Energy, Average, Schedule, UI. Categorized by regions A. NTPC, B. NPC, C. NHPC, D. SJVNL, E. THDC, F. BBMB, G. IPP(s)/JV(s), H. Total Regional Entities (A-G).

| 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 | 630 | 520 | 12.22 | 509 | |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 270 | 270 | 6.15 | 256 | |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 208 | 214 | 4.62 | 192 | |
| | Goindwal(GVK) (2*270) | 540 | 0 | 0 | -0.03 | -1 | |
| | Rajpura (2*700) | 1400 | 1320 | 700 | 25.55 | 1065 | |
| | Talwandi Saboo (3*660) | 1980 | 716 | 616 | 16.84 | 702 | |
| | Thermal (Total) | 6560 | 3144 | 2320 | 65.36 | 2723 | |
| | Total Hydro | 1000 | 591 | 625 | 15.20 | 633 | |
| | Total Punjab | 7560 | 3735 | 2945 | 80.55 | 3356 | |
| | Haryana | Panipat TPS (2*210+2*250) | 920 | 550 | 549 | 13.30 | 554 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 467 | 459 | 11.33 | 472 | |
| Faridabad GPS (NTPC)(2*137.75+1*156) | | 432 | 161 | 168 | 4.01 | 167 | |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 729 | 728 | 17.97 | 749 | |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 | |
| Jhajjar(CLP) (2*660) | | 1320 | 0 | 0 | 0.00 | 0 | |
| Thermal (Total) | | 4497 | 1907 | 1904 | 46.61 | 1942 | |
| Total Hydro | | 62 | 36 | 34 | 0.88 | 37 | |
| Total Haryana | | 4559 | 1943 | 1938 | 47.49 | 1979 | |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 727 | 781 | 18.69 | 779 |
| | suratgarh TPS (6*250) | 1500 | 940 | 936 | 22.14 | 922 | |
| | Chabra TPS (4*250) | 1000 | 543 | 621 | 13.95 | 581 | |
| | Dholpur GPS (3*110) | 330 | 91 | 91 | 2.16 | 90 | |
| | Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50) | 271 | 172 | 173 | 4.07 | 169 | |
| | RAPS A (NPC) (1*100+1*200) | 300 | 0 | 0 | 0.00 | 0 | |
| | Barsingar (NLC) (2*125) | 250 | 0 | 0 | 0.00 | 0 | |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 | |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 457 | 457 | 12.08 | 503 | |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 | |
| | Kalisindh Thermal(2*600) | 1200 | 0 | 0 | 0.00 | 0 | |
| | Kawai(Adani) (2*660) | 1320 | 1095 | 861 | 24.66 | 1027 | |
| | Thermal (Total) | 8876 | 4025 | 3920 | 98 | 4073 | |
| | Total Hydro | 550 | 0 | 11 | 0.10 | 4 | |
| | Wind power | 3214 | 433 | 1320 | 15.12 | 630 | |
| | Biomass | 99 | 18 | 18 | 0.44 | 18 | |
| | Solar | 730 | 0 | 0 | 0.00 | 0 | |
| | Renewable/Others (Total) | 4043 | 451 | 1338 | 15.56 | 648 | |
| | Total Rajasthan | 13469 | 4476 | 5269 | 113.41 | 4725 | |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 1365 | 1343 | 32.85 | 1369 |
| | | Obra TPS (2*50+2*94+5*200) | 1194 | 438 | 338 | 8.29 | 345 |
| | | Paricha TPS (2*110+2*220+2*250) | 1160 | 536 | 534 | 10.48 | 437 |
| Panki TPS (2*105) | | 210 | 77 | 72 | 1.67 | 70 | |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 530 | 531 | 12.05 | 502 | |
| Tanda TPS (NTPC) (4*110) | | 440 | 368 | 364 | 8.41 | 350 | |
| Roza TPS (IPP) (4*300) | | 1200 | 815 | 1112 | 21.22 | 884 | |
| Anpara-C (IPP) (2*600) | | 1200 | 1062 | 1080 | 24.39 | 1016 | |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 403 | 405 | 7.89 | 329 | |
| Anpara-D(2*500) | | 1000 | 197 | 207 | 5.13 | 214 | |
| Lalitpur TPS(3*660) | | 1980 | 0 | 0 | 0.00 | 0 | |
| Bara(2*660) | | 1320 | 536 | 536 | 11.33 | 472 | |
| Thermal (Total) | | 12449 | 6327 | 6522 | 144 | 5988 | |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 326 | 435 | 5.88 | 245 | |
| Alaknanda(4*82.5) | | 330 | 340 | 342 | 8.08 | 337 | |
| Other Hydro | | 527 | 79 | 60 | 2.18 | 91 | |
| Cogeneration | | 981 | 100 | 100 | 2.40 | 100 | |
| Total UP | | 14727 | 7172 | 7459 | 162 | 6761 | |
| Uttarakhand | | Total Hydro | 1398 | 823 | 754 | 19.37 | 807 |
| | | Total Gas | 225 | 0 | 0 | 0.00 | 0 |
| | Total Uttarakhand | 1623 | 823 | 754 | 19 | 807 | |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | -0.01 | 0 | |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 105 | 107 | 2.56 | 106 | |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 262 | 261 | 5.96 | 248 | |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 | |
| | Bawana GPS (4*216+2*253) | 1370 | 255 | 253 | 6.06 | 253 | |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 326 | 324 | 7.56 | 315 | |
| | Thermal (Total) | 2917 | 948 | 945 | 22.12 | 922 | |
| | Total Delhi | 2917 | 948 | 945 | 22.12 | 922 | |
| HP | Baspa HPS (IPP) (3*100) | 300 | 300 | 330 | 7.68 | 320 | |
| | Malana HPS (IPP) (2*43) | 86 | 105 | 76 | 2.18 | 91 | |
| | Other Hydro | 878 | 475 | 480 | 11.38 | 474 | |
| | Total HP | 1264 | 880 | 886 | 21.24 | 885 | |
| J & K | Baglihar HPS (IPP) (3*150+2*150) | 750 | 664 | 664 | 15.94 | 664 | |
| | Other Hydro/IPP | 560 | 200 | 210 | 4.89 | 204 | |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 | |
| | Total J & K | 1500 | 864 | 874 | 20.82 | 868 | |
| Total State Control Area Generation | | 47619 | 20841 | 21070 | 487.26 | 20303 | |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 8934 | 8039 | 185.52 | 7730 | |
| Total Regional Availability(Gross) | | 72856 | 50428 | 47000 | 1113.34 | 46389 | |

| IV. Total Hydro Generation: | | | | | | |
|-----------------------------|--|--------------|--------------|--------------|---------------|--------------|
| Regional Entities Hydro | | 12234 | 10641 | 9322 | 233.77 | 9741 |
| State Control Area Hydro | | 7106 | 3939 | 4021 | 93.75 | 3906 |
| Total Regional Hydro | | 19340 | 14580 | 13343 | 327.52 | 13647 |

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 | Import | Export | Import | Export | |
| Vindhychal(HVDC B/B) | -50 | 50 | 50 | 200 | 0.33 | 2.58 | -2.25 |
| 765 KV Gwalior-Agra (D/C) | 2987 | 2499 | 3000 | 0 | 57.45 | 0.00 | 57.45 |
| 400 KV Zerda-Kankroli | 43 | -88 | 81 | 163 | 0.00 | 1.06 | -1.06 |
| 400 KV Zerda-Bhinmal | 64 | -73 | 161 | 117 | 0.15 | 0.00 | 0.15 |
| 220 KV Auraiya-Malanpur | -3 | -8 | 0 | 78 | 0.00 | 0.39 | -0.39 |
| 220 KV Badod-Kota/Morak | 83 | 46 | 145 | 0 | 1.74 | 0.00 | 1.74 |
| Mundra-Mohindergarh(HVDC Bipole) | 1698 | 1498 | 2205 | 0.00 | 38.71 | 0.00 | 38.71 |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 1174 | 1026 | 1401 | 0 | 26.76 | 0.00 | 26.76 |
| Sub Total WR | 5996 | 4950 | | | 125.14 | 4.04 | 121.11 |
| Pusauli Bypass/HVDC | 250 | 250 | 250 | 0 | 6.07 | 0.00 | 6.07 |
| 400 KV MZP- GKP (D/C) | 240 | 370 | 534 | 0 | 10.55 | 0.00 | 10.55 |
| 400 KV Patna-Balia(D/C) X 2 | 629 | 637 | 762 | 0 | 16.72 | 0.00 | 16.72 |
| 400 KV B'Sharif-Balia (D/C) | 53 | 83 | 18 | 0 | 2.49 | 0.00 | 2.49 |
| 765 KV Gaya-Balia | 299 | 307 | 372 | 0 | 3.41 | 0.00 | 3.41 |
| 765 KV Gaya-Varanasi (D/C) | 531 | 565 | 605 | 0 | 11.70 | 0.00 | 11.70 |
| 220 KV Pusauli-Sahupuri | 175 | 191 | 234 | 0 | 4.50 | 0.00 | 4.50 |
| 132 KV K'nasa-Sahupuri | -24 | -40 | 0 | 46 | 0.00 | 8.57 | -8.57 |
| 132 KV Son Ngr-Rihand | -30 | -26 | 0 | 30 | 0.00 | 0.53 | -0.53 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -150 | -193 | 0 | 215 | 0.00 | 3.14 | -3.14 |
| 400 KV Barh -GKP (D/C) | 480 | 460 | 532 | 0 | 9.47 | 0.00 | 9.47 |
| 400 kV B'Sharif - Varanasi (D/C) | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sub Total ER | 2453 | 2604 | | | 64.90 | 12.23 | 52.66 |
| +/- 800 KV BiswanathCharialli-Agra | 485 | 485 | 485 | 0.00 | 11.75 | 0.00 | 11.75 |
| Sub Total NER | 485 | 485 | | | 11.75 | 0.00 | 11.75 |
| Total IR Exch | 8934 | 8039 | | | 201.79 | 16.27 | 185.52 |

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 |
| 32.89 | 3.85 | 36.74 | 11.74 | 26.89 | 14.80 | 7.69 | 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 |
| 63.28 | 134.32 | 197.60 | 64.41 | 121.11 | 185.52 | 1.13 | -13.21 | -12.08 |

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 | -24 | 0 | 31 | 0 | 1 | -0.53 |

VI. Frequency Profile <----- % of Time Frequency ----->

| <49.2 | <49.7 | <49.8 | <49.9 | <50.0 | 49.9-50.05 | 50.05-50.10 | 50.10-50.20 | >50.20 | >50.50 |
|-------|-------|-------|-------|-------|------------|-------------|-------------|--------|--------|
| 0.00 | 0.00 | 0.00 | 0.44 | 33.41 | 70.65 | 24.05 | 4.99 | 0.00 | 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) | | |
| 50.19 | 13.05 | 49.88 | 5.12 | 50.02 | 0.029 | 50.21 | 50.02 | 29.35 | |

VII. Voltage profile 400 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Voltage Deviat |
|-------------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|----------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <380 kV | <390 kV | >420 kV | >430 kV | |
| Rihand | 400 | 408 | 6:03 | 402 | 11:41 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 421 | 7:48 | 401 | 14:22 | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 |
| Bareilly(PG)400kV | 400 | 419 | 6:01 | 394 | 14:15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 411 | 18:31 | 397 | 22:14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 414 | 5:57 | 392 | 14:16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ballabgarh | 400 | 422 | 6:01 | 393 | 14:26 | 0.0 | 0.0 | 1.4 | 0.0 | 1.4 |
| Bawana | 400 | 417 | 6:00 | 394 | 14:26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bassi | 400 | 421 | 6:02 | 396 | 14:15 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Hissar | 400 | 413 | 6:02 | 390 | 14:17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 412 | 6:00 | 393 | 13:55 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 411 | 6:01 | 391 | 14:10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nalagarh | 400 | 417 | 5:59 | 398 | 14:17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kishenpur | 400 | 407 | 5:02 | 394 | 13:50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 407 | 2:57 | 391 | 11:22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Amritsar | 400 | 416 | 3:41 | 398 | 13:54 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kashipur | 400 | 420 | 5:44 | 405 | 13:23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 417 | 6:02 | 398 | 13:42 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rishikesh | 400 | 415 | 6:00 | 386 | 14:08 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 |

VIII. Voltage profile 765 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Voltage Deviat |
|-----------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|----------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV | |
| Fatehpur | 765 | 785 | 6:02 | 742 | 14:17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 795 | 8:01 | 759 | 14:22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 793 | 6:01 | 753 | 13:55 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 795 | 6:01 | 746 | 14:17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 798 | 6:01 | 752 | 13:55 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unnao | 765 | 778 | 8:01 | 738 | 14:22 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 799 | 8:01 | 757 | 14:19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 804 | 6:00 | 754 | 14:17 | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 |
| Jhatikara | 765 | 770 | 0:00 | 770 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly 765 kV | 765 | 779 | 18:49 | 753 | 20:25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 791 | 6:02 | 756 | 17:10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 794 | 5:59 | 756 | 13:56 | 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 | 481.75 | 503.43 | 493.00 | 827.99 | 1030.31 | 927.83 |
| Pong | 426.72 | 384.05 | 394.81 | 121.45 | 407.35 | 407.15 | 274.36 | 137.00 |
| Tehri | 829.79 | 740.04 | 765.10 | 164.03 | 760.20 | 122.20 | 516.53 | 458.00 |
| Koteshwar | 612.50 | 598.50 | 609.30 | 4.21 | 610.46 | 4.69 | 458.00 | 384.08 |
| Chamera-I | 760.00 | 748.75 | 752.28 | 0.00 | 0.00 | 0.00 | 263.97 | 259.57 |
| 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 | 503.76 | 6.41 | 523.83 | 10.75 | 161.36 | 303.78 |

* 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 | 1740 | 430 | 0 | 1773 | 704 | 0 | 41.79 | 15.70 | 57.49 |
| Delhi | 438 | -177 | 0 | 820 | -305 | 0 | 18.37 | -5.91 | 12.47 |
| Haryana | 1852 | 267 | 0 | 1609 | 342 | 0 | 39.13 | 4.68 | 43.81 |
| HP | -1496 | 96 | 0 | -1248 | -104 | 0 | -31.91 | -0.65 | -32.57 |
| J&K | -995 | -50 | 0 | -719 | -15 | 0 | -20.06 | -0.90 | -20.96 |
| CHD | 0 | 20 | 0 | 0 | 0 | 0 | 0.36 | 0.12 | 0.48 |
| Rajasthan | -472 | 472 | 0 | -472 | 478 | 0 | -9.81 | 13.98 | 4.16 |
| UP | 1223 | 0 | 0 | 827 | 0 | 0 | 20.14 | 0.00 | 20.14 |
| Uttarakhand | -350 | 392 | 0 | -349 | 536 | 0 | -8.42 | 10.14 | -1.73 |
| Total | 1939 | 1450 | 0 | 2240 | 1636 | 0 | 49.60 | 37.16 | 86.76 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 1929 | 1492 | 1228 | 430 | 0 | 0 |
| Delhi | 945 | 438 | 215 | -657 | 0 | 0 |
| Haryana | 1852 | 1281 | 382 | -397 | 0 | 0 |
| HP | -1240 | -1502 | 159 | -206 | 0 | 0 |
| J&K | -694 | -1096 | 0 | -101 | 0 | 0 |
| CHD | 44 | 0 | 35 | 0 | 0 | 0 |
| Rajasthan | -371 | -472 | 876 | 472 | 0 | 0 |
| UP | 1244 | 632 | 0 | 0 | 0 | 0 |
| Uttarakhand | -349 | -352 | 537 | 344 | 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 | 4.86% |

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

| | |
|--------------|--------|
| WR | 2.08% |
| ER | 0.00% |
| Simultaneous | 35.76% |

(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:
0.00

XIV. Weather Conditions For 11.07.2016 :

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 :

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.