

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वाभिमूर्तता प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 27.08.2016
Date of Reporting : 28.08.2016



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 |
| 44421 | 750 | 45171 | 50.06 | 42700 | 323 | 43023 | 50.07 | 1010.9 | 8.89 |

*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) | Shortages * (MU) |
|--------------|--|---------------|---------------------|---------------|--------------------------|------------------------|--------------|----------------------|------------------|
| | Thermal | Hydro | Renewable/others \$ | Total | | | | | |
| Punjab | 35.44 | 14.94 | | 50.38 | 109.23 | 106.98 | -2.25 | 157.37 | 0.00 |
| Haryana | 23.73 | 1.00 | | 24.72 | 134.89 | 133.78 | -1.12 | 158.50 | 0.00 |
| Rajasthan | 82.97 | 5.74 | 2.79 | 91.50 | 78.47 | 80.05 | 1.58 | 171.56 | 0.21 |
| Delhi | 21.19 | | | 21.19 | 81.56 | 81.15 | -0.41 | 102.34 | 0.00 |
| UP | 122.27 | 25.23 | | 147.51 | 166.35 | 168.22 | 1.86 | 315.72 | 0.00 |
| Uttarakhand | | 20.82 | | 22.65 | 16.02 | 17.02 | 1.00 | 39.66 | 0.13 |
| HP | | 25.56 | | 25.56 | -0.28 | 0.43 | 0.72 | 25.99 | 0.00 |
| J & K | | 21.97 | 0.00 | 21.97 | 14.89 | 12.21 | -2.68 | 34.18 | 8.55 |
| Chandigarh | | | | 0.00 | 6.22 | 5.53 | -0.68 | 5.53 | 0.00 |
| Total | 285.60 | 115.26 | 2.79 | 405.48 | 607.36 | 605.38 | -1.98 | 1010.85 | 8.89 |

* 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 (20:00 Hrs) MW | | | | Off Peak (03:00 Hrs) MW | | | | Maximum Demand Met (MW) and Time(Hrs) | Shortage (MW) | |
|--------------|-----------------------------|------------|------------|---------------------|-------------------------|------------|-------------|---------------------|---------------------------------------|---------------|------------|
| | Demand Met | Shortage | UI | STOA/PX transaction | Demand Met | Shortage | UI | STOA/PX transaction | | | |
| Punjab | 6048 | 0 | -84 | 1028 | 6834 | 0 | 1416 | 1416 | 7240 | 1:00 | 0 |
| Haryana | 7701 | 0 | -48 | 2355 | 6727 | 0 | -25 | 2455 | 8102 | 21:00 | 0 |
| Rajasthan | 7459 | 0 | 64 | 411 | 7334 | 0 | 64 | 379 | 7788 | 21:00 | 0 |
| Delhi | 4566 | 0 | 21 | 352 | 4185 | 0 | 121 | 176 | 5021 | 24:00 | 0 |
| UP | 13564 | 220 | 31 | 998 | 13813 | 55 | -39 | 1772 | 14032 | 23:00 | 10 |
| Uttarakhand | 1833 | 75 | 56 | -116 | 1563 | 0 | 104 | -124 | 1833 | 20:00 | 75 |
| HP | 1166 | 0 | 83 | -1690 | 960 | 0 | 21 | -1693 | 1235 | 11:00 | 0 |
| J&K | 1821 | 455 | 126 | -598 | 1070 | 268 | -180 | -1096 | 1821 | 20:00 | 455 |
| Chandigarh | 263 | 0 | -19 | 0 | 215 | 0 | -29 | 0 | 263 | 20:00 | 0 |
| Total | 44421 | 750 | 230 | 2740 | 42700 | 323 | -143 | 3285 | 44977 | 21:00 | 512 |

* 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 :

| 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 | Net MU |
| A. NTPC | | | | | | | | | |
| Singrauli STPS (5*200+2*500) | 2000 | 1439 | 1585 | 1523 | 34.02 | 1417 | 33.82 | | 0.20 |
| Rihand I STPS (2*500) | 1000 | 942 | 1029 | 1029 | 21.52 | 897 | 21.14 | | 0.38 |
| Rihand II STPS (2*500) | 1000 | 818 | 1008 | 459 | 18.09 | 754 | 17.19 | | 0.90 |
| Rihand III STPS (2*500) | 1000 | 963 | 1016 | 1009 | 20.82 | 868 | 20.89 | | -0.07 |
| Dadri I STPS (4*210) | 840 | 805 | 624 | 604 | 13.43 | 560 | 13.81 | | -0.37 |
| Dadri II STPS (2*490) | 980 | 960 | 955 | 709 | 17.97 | 749 | 19.14 | | -1.17 |
| Unchahar I TPS (2*210) | 420 | 400 | 422 | 317 | 7.43 | 310 | 7.93 | | -0.50 |
| Unchahar II TPS (2*210) | 420 | 400 | 430 | 314 | 7.14 | 298 | 7.54 | | -0.39 |
| Unchahar III TPS (1*210) | 210 | 200 | 217 | 129 | 3.23 | 135 | 3.72 | | -0.49 |
| ISTPP (Jhajjar) (3*500) | 1500 | 1425 | 1346 | 905 | 21.60 | 900 | 22.06 | | -0.47 |
| Dadri GPS (4*130.19+2*154.51) | 830 | 792 | 387 | 362 | 7.36 | 307 | 7.53 | | -0.17 |
| Anta GPS (3*88.71+1*153.2) | 419 | 361 | 0 | 0 | 0.00 | 0 | 0.00 | | 0.00 |
| Auraiya GPS (4*111.19+2*109.30) | 663 | 629 | 147 | 132 | 3.11 | 130 | 3.13 | | -0.03 |
| Dadri Solar(5) | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.02 | | 0.00 |
| Unchahar Solar(10) | 10 | 2 | 0 | 0 | 0.04 | 2 | 0.05 | | -0.01 |
| Singrauli Solar(15) | 15 | 2 | 0 | 0 | 0.01 | 0 | 0.05 | | -0.04 |
| KHEP(4*200) | 800 | 831 | 856 | 856 | 19.84 | 826 | 19.93 | | -0.10 |
| Sub Total (A) | 12112 | 10970 | 10022 | 8348 | 196 | 8151 | 198 | | -2.32 |
| B. NPC | | | | | | | | | |
| NAPS (2*220) | 440 | 380 | 419 | 425 | 9.15 | 381 | 9.12 | | 0.03 |
| RAPS- B (2*220) | 440 | 174 | 205 | 204 | 3.89 | 162 | 4.18 | | -0.28 |
| RAPS- C (2*220) | 440 | 405 | 437 | 436 | 9.34 | 389 | 9.72 | | -0.38 |
| Sub Total (B) | 1320 | 959 | 1061 | 1065 | 22.39 | 933 | 23.02 | | -0.63 |
| C. NHPC | | | | | | | | | |
| Chamera I HPS (3*180) | 540 | 518 | 540 | 546 | 11.47 | 478 | 12.47 | | -0.99 |
| Chamera II HPS (3*100) | 300 | 290 | 307 | 306 | 6.85 | 285 | 6.99 | | -0.14 |
| Chamera III HPS (3*77) | 231 | 222 | 229 | 226 | 5.35 | 223 | 5.32 | | 0.03 |
| Bairasuli HPS(3*60) | 180 | 179 | 184 | 61 | 3.01 | 125 | 2.92 | | 0.09 |
| Salal-HPS (6*115) | 690 | 662 | 668 | 670 | 16.07 | 670 | 15.89 | | 0.19 |
| Tanakpur-HPS (3*31.4) | 94 | 90 | 95 | 95 | 2.28 | 95 | 2.17 | | 0.11 |
| Uri-I HPS (4*120) | 480 | 297 | 250 | 309 | 7.47 | 311 | 7.13 | | 0.35 |
| Uri-II HPS (4*60) | 240 | 170 | 169 | 163 | 4.20 | 175 | 4.08 | | 0.12 |
| Dhauliganga-HPS (4*70) | 280 | 210 | 212 | 209 | 5.05 | 210 | 5.04 | | 0.01 |
| Dulhasti-HPS (3*130) | 390 | 383 | 397 | 389 | 9.24 | 385 | 9.18 | | 0.05 |
| Sewa-II HPS (3*40) | 120 | 121 | 128 | 0 | 1.60 | 67 | 1.58 | | 0.02 |
| Parbati 3 (4*130) | 520 | 390 | 398 | 260 | 8.74 | 364 | 8.68 | | 0.06 |
| Sub Total (C) | 4065 | 3531 | 3575 | 3232 | 81 | 3388 | 81 | | -0.11 |
| D. SJVNL | | | | | | | | | |
| NJPC (6*250) | 1500 | 1605 | 1618 | 1616 | 38.48 | 1603 | 38.52 | | -0.03 |
| Rampur HEP (6*68.67) | 412 | 442 | 447 | 446 | 10.72 | 447 | 10.61 | | 0.11 |
| Sub Total (D) | 1912 | 2047 | 2065 | 2062 | 49.20 | 2050 | 49.13 | | 0.08 |
| E. THDC | | | | | | | | | |
| Tehri HPS (4*250) | 1000 | 1071 | 1061 | 516 | 14.45 | 602 | 14.00 | | 0.45 |
| Koteshwar HPS (4*100) | 400 | 206 | 304 | 181 | 4.98 | 207 | 4.95 | | 0.03 |
| Sub Total (E) | 1400 | 1278 | 1365 | 697 | 19.43 | 810 | 18.95 | | 0.48 |
| F. BBMB | | | | | | | | | |
| Bhakra HPS (2*108+3*126+5*157) | 1379 | 856 | 1328 | 667 | 20.41 | 850 | 20.55 | | -0.14 |
| Dehar HPS (6*165) | 990 | 603 | 825 | 560 | 14.77 | 616 | 14.47 | | 0.30 |
| Pong HPS (6*66) | 396 | 262 | 330 | 330 | 6.13 | 255 | 6.29 | | -0.16 |
| Sub Total (F) | 2765 | 1721 | 2483 | 1557 | 41.31 | 1721 | 41.31 | | 0.00 |
| G. IPP(s)/JV(s) | | | | | | | | | |
| ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 230 | 227 | 5.39 | 225 | 4.03 | | 1.36 |
| KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 1100 | 1100 | 26.24 | 1093 | 26.08 | | 0.16 |
| Malana Stg-II HPS (2*50) | 100 | 0 | 111 | 111 | 2.63 | 109 | 2.47 | | 0.15 |
| Shree Cement TPS (2*150) | 300 | 0 | 252 | 255 | 5.86 | 244 | 6.01 | | -0.15 |
| Budhil HPS(IPP) (2*35) | 70 | 0 | 75 | 75 | 1.66 | 69 | 1.75 | | -0.09 |
| Sub Total (G) | 1662 | 0 | 1768 | 1768 | 41.77 | 1741 | 40.34 | | 1.43 |
| H. Total Regional Entities (A-G) | 25237 | 20505 | 22339 | 18729 | 451.05 | 18794 | 452.11 | | -1.06 |

| 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 | 3.53 | 147 |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 0 | 90 | 0.86 | 36 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 0 | 193 | 1.46 | 61 |
| | Goindwal(GVK) (2*270) | 540 | 0 | 0 | -0.04 | -2 |
| | Rajpura (2*700) | 1400 | 660 | 920 | 17.13 | 714 |
| | Talwandi Saboo (3*660) | 1980 | 308 | 616 | 12.51 | 521 |
| | Thermal (Total) | 6560 | 1128 | 1979 | 35.44 | 1477 |
| | Total Hydro | 1000 | 594 | 617 | 14.94 | 623 |
| | Total Punjab | 7560 | 1722 | 2596 | 50.38 | 2099 |
| | Haryana | Panipat TPS (2*210+2*250) | 920 | 202 | 202 | 5.00 |
| DCRTPP (Yamuna nagar) (2*300) | | 600 | 535 | 479 | 11.16 | 465 |
| Faridabad GPS (NTPC)(2*137.75+1*156) | | 432 | 322 | 307 | 7.57 | 315 |
| RGTPP (khedar) (IPP) (2*600) | | 1200 | 0 | 0 | 0.00 | 0 |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 |
| Jhajjar(CLP) (2*660) | | 1320 | 0 | 0 | 0.00 | 0 |
| Thermal (Total) | | 4497 | 1059 | 988 | 23.73 | 989 |
| Total Hydro | | 62 | 42 | 40 | 1.00 | 42 |
| Total Haryana | | 4559 | 1101 | 1028 | 24.72 | 1030 |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 796 | 751 | 17.22 |
| | suratgarh TPS (6*250) | 1500 | 659 | 449 | 11.90 | 496 |
| | Chabra TPS (4*250) | 1000 | 411 | 330 | 8.61 | 359 |
| | 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 | 145 | 132 | 3.31 | 138 |
| | RAPS A (NPC) (1*100+1*200) | 300 | 161 | 163 | 4.03 | 168 |
| | Barsingsar (NLC) (2*125) | 250 | 226 | 227 | 5.18 | 216 |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 657 | 805 | 18.51 | 771 |
| | 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 | 556 | 612 | 14.21 | 592 |
| | Thermal (Total) | 8876 | 3611 | 3469 | 83 | 3457 |
| | Total Hydro | 550 | 244 | 312 | 5.74 | 239 |
| | Wind power | 3214 | 76 | 75 | 2.24 | 93 |
| | Biomass | 99 | 23 | 23 | 0.55 | 23 |
| | Solar | 730 | 0 | 0 | 0.00 | 0 |
| | Renewable/Others (Total) | 4043 | 99 | 98 | 2.79 | 116 |
| | Total Rajasthan | 13469 | 3954 | 3879 | 91.50 | 3813 |
| | UP | Anpara TPS (3*210+2*500) | 1630 | 742 | 789 | 18.04 |
| Obra TPS (2*50+2*94+5*200) | | 1194 | 185 | 326 | 5.58 | 233 |
| Paricha TPS (2*110+2*220+2*250) | | 1160 | 879 | 911 | 20.54 | 856 |
| Panki TPS (2*105) | | 210 | 68 | 63 | 1.52 | 63 |
| Harduaganj TPS (1*60+1*105+2*250) | | 665 | 536 | 521 | 12.33 | 514 |
| Tanda TPS (NTPC) (4*110) | | 440 | 270 | 278 | 6.58 | 274 |
| Roza TPS (IPP) (4*300) | | 1200 | 1112 | 1089 | 25.61 | 1067 |
| Anpara-C (IPP) (2*600) | | 1200 | 486 | 509 | 11.41 | 476 |
| Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | | 450 | 324 | 403 | 8.61 | 359 |
| Anpara-D(2*500) | | 1000 | 221 | 89 | 3.70 | 154 |
| Lalitpur TPS(3*660) | | 1980 | 299 | 250 | 7.16 | 299 |
| Bara(2*660) | | 1320 | 0 | 0 | 0.00 | 0 |
| Thermal (Total) | | 12449 | 5122 | 5228 | 121 | 5045 |
| Vishnuparyag HPS (IPP)(4*110) | | 440 | 435 | 435 | 10.47 | 436 |
| Alaknanda(4*82.5) | | 330 | 337 | 337 | 7.97 | 332 |
| Other Hydro | | 527 | 305 | 306 | 6.80 | 283 |
| Cogeneration | | 981 | 50 | 50 | 1.20 | 50 |
| Total UP | | 14727 | 6249 | 6356 | 148 | 6146 |
| Uttarakhand | | Total Hydro | 1398 | 832 | 882 | 20.82 |
| | Total Gas | 225 | 171 | 29 | 1.83 | 76 |
| | Total Uttarakhand | 1623 | 1003 | 911 | 23 | 944 |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 75 | 75 | 1.71 | 71 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 265 | 265 | 6.39 | 266 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (4*216+2*253) | 1370 | 250 | 250 | 6.02 | 251 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 330 | 330 | 7.07 | 294 |
| | Thermal (Total) | 2917 | 920 | 920 | 21.19 | 883 |
| | Total Delhi | 2917 | 920 | 920 | 21.19 | 883 |
| HP | Baspa HPS (IPP) (3*100) | 300 | 331 | 331 | 7.65 | 319 |
| | Malana HPS (IPP) (2*43) | 86 | 103 | 102 | 2.45 | 102 |
| | Other Hydro | 878 | 708 | 684 | 15.46 | 644 |
| | Total HP | 1264 | 1142 | 1117 | 25.56 | 1065 |
| J & K | Baglihar HPS (IPP) (3*150+2*150) | 750 | 733 | 733 | 17.59 | 733 |
| | Other Hydro/IPP | 560 | 181 | 185 | 4.38 | 182 |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1500 | 914 | 918 | 21.97 | 915 |
| Total State Control Area Generation | | 47619 | 17005 | 17725 | 405.48 | 16895 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 7682 | 7800 | 176.73 | 7364 |
| Total Regional Availability(Gross) | | 72856 | 47026 | 44254 | 1033.26 | 43053 |

| IV. Total Hydro Generation: | | | | | | |
|-----------------------------|--|--------------|--------------|--------------|---------------|--------------|
| Regional Entities Hydro | | 12234 | 11785 | 9842 | 245.35 | 10223 |
| State Control Area Hydro | | 7106 | 5016 | 4993 | 117.08 | 4878 |
| Total Regional Hydro | | 19340 | 16801 | 14835 | 362.43 | 15101 |

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) | -500 | -100 | 0 | 500 | 0.00 | 7.78 | -7.78 |
| 765 KV Gwalior-Agra (D/C) | 2578 | 2213 | 2802 | 0 | 52.51 | 0.00 | 52.51 |
| 400 KV Zerda-Kankroli | 37 | 32 | 116 | 141 | 0.00 | 0.48 | -0.48 |
| 400 KV Zerda-Bhinmal | 69 | 59 | 155 | 151 | 0.14 | 0.00 | 0.14 |
| 220 KV Auraiya-Malanpur | -27 | -23 | 0 | 68 | 0.00 | 0.31 | -0.31 |
| 220 KV Badod-Kota/Morak | 61 | 43 | 112 | -18 | 1.16 | 0.00 | 1.16 |
| Mundra-Mohindergarh(HVDC Bipole) | 2197 | 2202 | 2208 | 0.00 | 51.51 | 0.00 | 51.51 |
| 400 KV Vindhychal - Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 1121 | 988 | 1160 | 0 | 22.39 | 0.00 | 22.39 |
| Sub Total WR | 5536 | 5414 | | | 127.71 | 8.57 | 119.14 |
| Pusauli Bypass/HVDC | 250 | 250 | 250 | 0 | 6.13 | 0.00 | 6.13 |
| 400 KV MZP- GKP (D/C) | 134 | 270 | 454 | 0 | 7.45 | 0.00 | 7.45 |
| 400 KV Patna-Balia(D/C) X 2 | 161 | 327 | 329 | 0 | 6.42 | 0.00 | 6.42 |
| 400 KV B'Sharif-Balia (D/C) | 54 | 37 | 158 | 0 | 1.46 | 0.00 | 1.46 |
| 765 KV Gaya-Balia | 259 | 230 | 353 | 0 | 5.55 | 0.00 | 5.55 |
| 765 KV Gaya-Varanasi (D/C) | 361 | 306 | 503 | 0 | 8.91 | 0.00 | 8.91 |
| 220 KV Pusauli-Sahupuri | 218 | 212 | 225 | 0 | 4.74 | 0.00 | 4.74 |
| 132 KV K'nasa-Sahupuri | -30 | -28 | 0 | 36 | 0.00 | 0.61 | -0.61 |
| 132 KV Son Ngr-Rihand | -38 | -30 | 0 | 36 | 0.00 | 0.70 | -0.70 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -297 | -299 | 0 | 310 | 0.00 | 5.83 | -5.83 |
| 400 KV Barh -GKP (D/C) | 312 | 366 | 384 | 0 | 7.38 | 0.00 | 7.38 |
| 400 kV B'Sharif - Varanasi (D/C) | 62 | 45 | 114 | 65 | 0.39 | 0.00 | 0.39 |
| Sub Total ER | 1446 | 1686 | | | 48.43 | 7.14 | 41.28 |
| +/- 800 KV BiswanathCharialli-Agra | 700 | 700 | 700 | 0.00 | 16.31 | 0.00 | 16.31 |
| Sub Total NER | 700 | 700 | | | 16.31 | 0.00 | 16.31 |
| Total IR Exch | 7682 | 7800 | | | 192.44 | 15.71 | 176.73 |

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 |
| 33.85 | 3.55 | 37.41 | 38.48 | 11.06 | -2.90 | 0.91 | 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 |
| 72.99 | 118.30 | 191.29 | 57.59 | 119.14 | 176.73 | -15.39 | 0.84 | -14.56 |

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 | -24 | -11 | 0 | 27 | 0 | 1 | -0.52 |

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 | 0.02 | 3.21 | 46.23 | 76.71 | 16.18 | 4.50 | 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) | | |
| 50.20 | 6.04 | 49.79 | 19.11 | 50.00 | 0.033 | 50.21 | 0.00 | 23.29 | |

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 | 416 | 6:02 | 407 | 22:21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 421 | 6:04 | 402 | 12:30 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Bareilly(PG)400kV | 400 | 416 | 6:03 | 397 | 12:30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 420 | 6:02 | 401 | 11:44 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 416 | 6:04 | 399 | 12:45 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ballabgarh | 400 | 423 | 6:02 | 403 | 11:32 | 0.0 | 0.0 | 6.6 | 0.0 | 6.6 |
| Bawana | 400 | 420 | 6:08 | 402 | 19:39 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bassi | 400 | 419 | 6:03 | 397 | 11:43 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hissar | 400 | 414 | 6:04 | 397 | 19:40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 416 | 18:00 | 403 | 11:32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 418 | 6:07 | 403 | 19:38 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nalagarh | 400 | 418 | 6:05 | 408 | 11:32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kishenpur | 400 | 416 | 17:02 | 404 | 19:49 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 413 | 17:06 | 390 | 19:53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Amritsar | 400 | 423 | 18:04 | 412 | 0:00 | 0.0 | 0.0 | 2.5 | 0.0 | 2.5 |
| Kashipur | 400 | 0 | 0:00 | 0 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 417 | 8:09 | 409 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rishikesh | 400 | 410 | 6:06 | 390 | 12:28 | 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 Deviat |
|-----------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|----------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV | |
| Fatehpur | 765 | 797 | 6:03 | 740 | 11:43 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 794 | 6:03 | 756 | 11:48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 765 | 797 | 18:01 | 769 | 11:44 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 798 | 6:04 | 748 | 11:48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 800 | 6:03 | 770 | 11:32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unnao | 765 | 777 | 6:03 | 746 | 12:30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 793 | 6:03 | 759 | 11:42 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 808 | 6:04 | 770 | 11:43 | 0.0 | 0.0 | 3.5 | 0.0 | 3.5 |
| Jhatikara | 765 | 800 | 6:08 | 759 | 19:42 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly 765 kV | 765 | 786 | 6:02 | 751 | 12:29 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 0 | 0:00 | 0 | 0:00 | 100.0 | 100.0 | 0.0 | 0.0 | 100.0 |
| Phagi | 765 | 793 | 6:02 | 756 | 11:42 | 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 | 499.78 | 1088.42 | 510.55 | 1575.10 | 1100.56 | 639.56 |
| Pong | 426.72 | 384.05 | 416.03 | 718.14 | 422.69 | 1020.81 | 1513.70 | 375.42 |
| Tehri | 829.79 | 740.04 | 816.75 | 938.00 | 815.90 | 922.25 | 537.94 | 325.00 |
| Koteswar | 612.50 | 598.50 | 610.75 | 4.95 | 610.58 | 4.69 | 325.00 | 328.55 |
| Chamera-I | 760.00 | 748.75 | 0.00 | 0.00 | 0.00 | 0.00 | 318.49 | 319.37 |
| Rihand | 268.22 | 252.98 | 870.80 | 643.70 | 852.40 | 294.60 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 1157.00 | 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 | 520.63 | 40.03 | 520.95 | 14.29 | 338.62 | 182.27 |

* 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 | 1398 | 19 | 0 | 986 | 42 | 0 | 34.77 | 0.41 | 35.17 |
| Delhi | 422 | -246 | 0 | 651 | -299 | 0 | 15.88 | -6.02 | 9.85 |
| Haryana | 2068 | 375 | 13 | 2013 | 329 | 13 | 45.67 | 4.20 | 49.87 |
| HP | -1370 | -323 | 0 | -1121 | -568 | 0 | -29.76 | -8.39 | -38.14 |
| J&K | -583 | -513 | 0 | -583 | -15 | 0 | -14.83 | -3.21 | -18.04 |
| CHD | 0 | 0 | 0 | 0 | 0 | 0 | 0.36 | 0.00 | 0.36 |
| Rajasthan | -179 | 554 | 4 | -129 | 535 | 4 | -3.44 | 13.39 | 9.95 |
| UP | 1085 | 687 | 0 | 641 | 357 | 0 | 17.56 | 6.02 | 23.58 |
| Uttarakhand | -126 | 1 | 0 | -126 | 10 | 0 | -3.02 | 2.25 | -0.77 |
| Total | 2714 | 554 | 17 | 2332 | 391 | 17 | 63.18 | 8.66 | 71.84 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | 1747 | 925 | 76 | 0 | 0 | 0 |
| Delhi | 805 | 422 | -57 | -403 | 0 | 0 |
| Haryana | 2098 | 1693 | 405 | -376 | 14 | 13 |
| HP | -1091 | -1370 | -257 | -652 | 0 | 0 |
| J&K | -583 | -683 | 0 | -513 | 0 | 0 |
| CHD | 44 | 0 | 0 | 0 | 0 | 0 |
| Rajasthan | -129 | -179 | 571 | 526 | 4 | 4 |
| UP | 1111 | 557 | 785 | 0 | 0 | 0 |
| Uttarakhand | -126 | -126 | 253 | -96 | 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 | 0.00% |

(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 27.08.2016 :

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.