

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.02.2017
Date of Reporting : 27.02.2017



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 |
| 38883 | 492 | 39375 | 49.95 | 31249 | 410 | 31658 | 50.02 | 862.40 | 12.70 |

* 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 | 48.78 | 9.40 | 0.36 | 58.53 | 55.26 | 55.27 | 0.01 | 113.80 | 0.00 |
| Haryana | 26.13 | 0.22 | 0.00 | 26.35 | 90.74 | 90.73 | -0.01 | 117.08 | 0.00 |
| Rajasthan | 117.01 | 4.77 | 9.80 | 131.58 | 70.89 | 73.25 | 2.36 | 204.83 | 0.17 |
| Delhi | 11.74 | 0.00 | 0.00 | 11.74 | 43.50 | 41.03 | -2.47 | 52.77 | 0.00 |
| UP | 161.16 | 5.42 | 0.00 | 166.58 | 105.31 | 105.23 | -0.08 | 271.80 | 1.78 |
| Uttarakhand | 7.41 | 0.00 | 0.00 | 14.73 | 18.26 | 15.60 | -2.66 | 30.33 | 0.00 |
| HP | 8.24 | 2.70 | 0.00 | 8.24 | 17.90 | 17.81 | -0.10 | 26.04 | 0.04 |
| J & K | 6.46 | 0.00 | 0.00 | 6.46 | 35.71 | 36.41 | 0.70 | 42.87 | 10.72 |
| Chandigarh | 0.00 | 0.00 | 0.00 | 0.00 | 3.26 | 2.88 | -0.38 | 2.88 | 0.00 |
| Total | 364.81 | 41.91 | 12.86 | 424.20 | 440.84 | 438.20 | -2.63 | 862.40 | 12.70 |

* Shortage furnished by the respective constituent's 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 | | | | Maximum Demand Met (MW) and Time(Hrs) | Shortage (MW) | |
|--------------|-----------------------------|------------|------------|--------------------|-------------------------|------------|-----------|--------------------|---------------------------------------|---------------|------------|
| | Demand Met | Shortage | UI | STO/PA transaction | Demand Met | Shortage | UI | STO/PA transaction | | | |
| Punjab | 6110 | 0 | -101 | -101 | 3513 | 0 | -14 | -303 | 6134 | 20:00 | 0 |
| Haryana | 5511 | 0 | 20 | -171 | 3411 | 0 | 10 | -311 | 6122 | 7:00 | 0 |
| Rajasthan | 7740 | 0 | 27 | 305 | 8319 | 0 | 86 | 402 | 9735 | 8:00 | 0 |
| Delhi | 2367 | 0 | -286 | -412 | 1437 | 0 | -4 | -797 | 3003 | 11:00 | 0 |
| UP | 12488 | 0 | 203 | -139 | 10980 | 0 | 87 | 85 | 12995 | 7:00 | 25 |
| Uttarakhand | 1687 | 0 | -65 | 91 | 1106 | 0 | -28 | 96 | 1759 | 9:00 | 0 |
| HP | 864 | 0 | 37 | 32 | 764 | 0 | -50 | 448 | 1220 | 8:00 | 0 |
| J&K | 1967 | 492 | 187 | 517 | 1638 | 410 | -14 | 422 | 1967 | 19:00 | 492 |
| Chandigarh | 151 | 0 | -50 | -35 | 80 | 0 | -17 | -15 | 170 | 8:00 | 0 |
| Total | 38883 | 492 | -28 | 86 | 31249 | 410 | 57 | 27 | 40126 | 20:00 | 530 |

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

III. Regional Entities :

| Station/ Constituent | Inst. Capacity (Effective) MW | Declared Capacity(MW) | Peak MW | Off Peak MW | Energy | Average | Schedule | UI |
|---------------------------------|----------------------------------|--------------------------|-------------|-------------|--------------|-------------|--------------|--------------|
| | | | (Gross) | (Gross) | (Net MU) | Sentout(MW) | Net MU | Net MU |
| A. NTPC | | | | | | | | |
| Singrauli STPS (5*200+2*500) | 2000 | 1690 | 1708 | 1796 | 40.36 | 1682 | 40.12 | 0.25 |
| Rihand I STPS (2*500) | 1000 | 484 | 485 | 465 | 10.63 | 443 | 10.67 | -0.04 |
| Rihand II STPS (2*500) | 1000 | 930 | 878 | 929 | 20.22 | 843 | 20.45 | -0.23 |
| Rihand III STPS (2*500) | 1000 | 983 | 994 | 955 | 22.01 | 917 | 21.78 | 0.22 |
| Dadri I STPS (4*210) | 840 | 815 | 140 | 137 | 3.96 | 165 | 4.20 | -0.24 |
| Dadri II STPS (2*490) | 980 | 980 | 337 | 332 | 8.96 | 373 | 9.61 | -0.64 |
| Unchahar I TPS (2*210) | 420 | 407 | 279 | 308 | 7.38 | 308 | 7.92 | -0.54 |
| Unchahar II TPS (2*210) | 420 | 405 | 307 | 294 | 6.92 | 288 | 7.25 | -0.34 |
| Unchahar III TPS (1*210) | 210 | 203 | 147 | 147 | 3.31 | 138 | 3.50 | -0.19 |
| ISTPP (Jhajihar) (3*500) | 1500 | 1440 | 610 | 603 | 15.28 | 637 | 15.58 | -0.30 |
| Dadri GPS (4*130.19+2*154.51) | 830 | 410 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Anta GPS (3*88.71+1*153.2) | 419 | 411 | 245 | 229 | 5.39 | 225 | 5.64 | -0.25 |
| Auraiya GPS (4*111.19+2*109.30) | 663 | 644 | 138 | 154 | 0.32 | 14 | 3.32 | -2.99 |
| Dadri Solar(5) | 5 | 1 | 0 | 0 | 0.03 | 1 | 0.02 | 0.00 |
| Unchahar Solar(10) | 10 | 2 | 0 | 0 | 0.05 | 2 | 0.05 | 0.00 |
| Singrauli Solar(15) | 15 | 3 | 0 | 0 | 0.07 | 3 | 0.07 | 0.00 |
| KHEP(4*200) | 800 | 872 | 863 | 0 | 2.58 | 108 | 2.62 | -0.03 |
| Sub Total (A) | 12112 | 10679 | 7131 | 6349 | 147 | 6145 | 153 | -5.31 |
| B. NPC | | | | | | | | |
| NAPS (2*220) | 419 | 446 | 419 | 456 | 9.98 | 416 | 10.06 | -0.08 |
| RAPS- B (2*220) | 440 | 383 | 425 | 427 | 9.18 | 382 | 9.19 | -0.02 |
| RAPS- C (2*220) | 440 | 405 | 439 | 442 | 9.51 | 396 | 9.72 | -0.21 |
| Sub Total (B) | 1320 | 1207 | 1310 | 1325 | 28.66 | 1194 | 28.97 | -0.31 |
| C. NHPC | | | | | | | | |
| Chamera I HPS (3*180) | 540 | 534 | 360 | 0 | 3.19 | 133 | 3.00 | 0.19 |
| Chamera II HPS (3*100) | 300 | 301 | 310 | 0 | 1.55 | 64 | 1.43 | 0.12 |
| Chamera III HPS (3*77) | 231 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| Bairasuil HPS(3*60) | 180 | 179 | 185 | 62 | 1.96 | 82 | 1.93 | 0.03 |
| Salal-HPS (6*115) | 690 | 150 | 328 | 140 | 4.43 | 185 | 3.60 | 0.83 |
| Tanakpur-HPS (3*31.4) | 94 | 17 | 14 | 15 | 0.46 | 19 | 0.40 | 0.06 |
| Uri-I HPS (4*120) | 480 | 475 | 475 | 470 | 11.49 | 479 | 11.40 | 0.09 |
| Uri-II HPS (4*60) | 240 | 237 | 241 | 236 | 5.70 | 238 | 5.69 | 0.01 |
| Dhauliganga-HPS (4*70) | 280 | 140 | 140 | 0 | 0.78 | 32 | 0.74 | 0.04 |
| Dulhasti-HPS (3*130) | 390 | 387 | 403 | 0 | 2.65 | 110 | 2.50 | 0.15 |
| Sewa-II HPS (3*40) | 120 | 119 | 129 | 121 | 2.95 | 123 | 2.87 | 0.08 |
| Parbati 3 (4*130) | 520 | 130 | 133 | 0 | 0.40 | 17 | 0.39 | 0.01 |
| Sub Total (C) | 4065 | 2669 | 2717 | 1043 | 36 | 1481 | 34 | 1.61 |
| D.SJVNL | | | | | | | | |
| NJPC (6*250) | 1500 | 1605 | 1561 | 0 | 6.49 | 270 | 6.41 | 0.08 |
| Rampur HEP (6*88.67) | 412 | 375 | 370 | 0 | 1.83 | 76 | 1.75 | 0.08 |
| Sub Total (D) | 1912 | 1980 | 1931 | 0 | 8.31 | 346 | 8.16 | 0.15 |
| E. THDC | | | | | | | | |
| Tehri HPS (4*250) | 1000 | 828 | 814 | 0 | 9.22 | 384 | 9.20 | 0.02 |
| Koteshwar HPS (4*100) | 400 | 158 | 389 | 92 | 3.83 | 160 | 3.80 | 0.03 |
| Sub Total (E) | 1400 | 986 | 1203 | 92 | 13.05 | 544 | 13.00 | 0.05 |
| F. BBMB | | | | | | | | |
| Bhakra HPS (2*108+3*126+5*157) | 1379 | 520 | 864 | 386 | 13.08 | 545 | 12.49 | 0.59 |
| Dehar HPS (6*165) | 990 | 158 | 495 | 0 | 3.88 | 162 | 3.78 | 0.10 |
| Pong HPS (6*66) | 396 | 202 | 300 | 0 | 4.86 | 203 | 4.85 | 0.01 |
| Sub Total (F) | 2765 | 880 | 1659 | 386 | 21.82 | 909 | 21. | |

| | | | | | | |
|---|--|----------------------------------|-------------|---------------|---------------|-------------|
| | Rajpura (2*700) | 1400 | 1320 | 1020 | 28.29 | 1179 |
| | Talwandi Saboo (3*660) | 1980 | 1227 | 308 | 20.27 | 845 |
| | Thermal (Total) | 6560 | 2547 | 1328 | 48.78 | 2032 |
| | Total Hydro | 1000 | 459 | 233 | 9.40 | 392 |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 |
| | Biomass | 288 | 0 | 0 | 0.28 | 12 |
| | Solar | 560 | 0 | 0 | 0.08 | 3 |
| | Renewable(Total) | 848 | 0 | 0 | 0.36 | 15 |
| | Total Punjab | 8408 | 3006 | 1561 | 58.53 | 2439 |
| Haryana | Panipat TPS (2*210+2*250) | 920 | 405 | 415 | 10.44 | 435 |
| | DCRTPP (Yamuna nagar) (2*300) | 600 | 465 | 467 | 11.92 | 497 |
| | Faridabad GPS (NTPC)(2*137.75+1*156) | 432 | 157 | 160 | 3.77 | 157 |
| | 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 | 1027 | 1042 | 26.13 | 1089 |
| | Total Hydro | 62 | 0 | 6 | 0.22 | 9 |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 |
| | Biomass | 40 | 0 | 0 | 0.00 | 0 |
| | Solar | 0 | 0 | 0 | 0.00 | 0 |
| | Renewable(Total) | 40 | 0 | 0 | 0.00 | 0 |
| | Total Haryana | 4599 | 1027 | 1048 | 26.35 | 1098 |
| | Rajasthan | kota TPS (2*110+2*195+3*210) | 1240 | 957 | 972 | 23.33 |
| suratgarh TPS (6*250) | | 1500 | 183 | 182 | 4.50 | 188 |
| Chabra TPS (4*250) | | 1000 | 762 | 800 | 18.79 | 783 |
| 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 | 173 | 155 | 4.54 | 189 |
| RAPS A (NPC) (1*100+1*200) | | 300 | 193 | 193 | 4.30 | 179 |
| Barsingar (NLC) (2*125) | | 250 | 210 | 212 | 4.82 | 201 |
| Giral LTPS (2*125) | | 250 | 0 | 0 | 0.00 | 0 |
| Rajwest LTPS (IPP) (8*135) | | 1080 | 379 | 462 | 10.61 | 442 |
| VS LIGNITE LTPS (IPP) (1*135) | | 135 | 0 | 0 | 0.00 | 0 |
| Kalisindh Thermal(2*600) | | 1200 | 831 | 827 | 20.07 | 836 |
| Kawai(Adani) (2*660) | | 1320 | 863 | 1199 | 26.04 | 1085 |
| Thermal (Total) | | 8876 | 4551 | 5002 | 117.01 | 4875 |
| Total Hydro | | 550 | 172 | 171 | 4.77 | 199 |
| Wind power | | 4017 | 218 | 481 | 6.38 | 266 |
| Biomass | | 99 | 14 | 14 | 0.33 | 14 |
| Solar | | 1295 | 0 | 0 | 3.09 | 129 |
| Renewable/Others (Total) | | 5411 | 232 | 495 | 9.80 | 408 |
| Total Rajasthan | | 14837 | 4955 | 5668 | 131.58 | 5482 |
| UP | Anpara TPS (3*210+2*500) | 1630 | 1243 | 1242 | 29.71 | 1238 |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 495 | 511 | 11.87 | 495 |
| | Paricha TPS (2*110+2*220+2*250) | 1160 | 0 | 0 | 0.00 | 0 |
| | Panki TPS (2*105) | 210 | 0 | 0 | 0.00 | 0 |
| | Harduaqanj TPS (1*60+1*105+2*250) | 665 | 152 | 161 | 4.75 | 198 |
| | Tanda TPS (NTPC) (4*110) | 440 | 395 | 380 | 9.00 | 375 |
| | Roza TPS (IPP) (4*300) | 1200 | 761 | 1082 | 24.62 | 1026 |
| | Anpara-C (IPP) (2*600) | 1200 | 477 | 531 | 12.51 | 521 |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 0 | 0 | 0.00 | 0 |
| | Anpara-D(2*500) | 1000 | 855 | 853 | 20.32 | 847 |
| | Lalitpur TPS(3*660) | 1980 | 942 | 0 | 15.05 | 627 |
| | Bara(2*660) | 1320 | 542 | 541 | 12.93 | 539 |
| | Thermal (Total) | 12449 | 5862 | 5301 | 140.76 | 5865 |
| | Vishnuparyag HPS (IPP)(4*110) | 440 | 63 | 63 | 1.50 | 63 |
| | Alaknada(4*82.5) | 330 | 76 | 0 | 0.97 | 41 |
| | Other Hydro | 527 | 81 | 197 | 2.95 | 123 |
| | Cogeneration | 981 | 850 | 850 | 20.40 | 850 |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 |
| | Biomass | 26 | 0 | 0 | 0.00 | 0 |
| | Solar | 102 | 0 | 0 | 0.00 | 0 |
| | Renewable(Total) | 128 | 0 | 0 | 0.00 | 0 |
| Total UP | 14855 | 6932 | 6411 | 166.58 | 6941 | |
| Uttarakhand | Other Hydro | 1250 | 416 | 230 | 7.41 | 309 |
| | Total Gas | 225 | 295 | 307 | 7.17 | 299 |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 |
| | Biomass | 127 | 0 | 0 | 0.00 | 0 |
| | Solar | 20 | 0 | 0 | 0.15 | 6 |
| | Small Hydro (< 25 MW) | 180 | 0 | 0 | 0.00 | 0 |
| | Renewable(Total) | 327 | 0 | 0 | 0.15 | 6 |
| Total Uttarakhand | 1802 | 711 | 537 | 14.73 | 614 | |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 73 | 73 | 1.91 | 80 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 156 | 160 | 3.82 | 159 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (4*216+2*253) | 1370 | 249 | 249 | 6.00 | 250 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 0 | 0 | 0.00 | 0 |
| | Thermal (Total) | 2917 | 478 | 482 | 11.74 | 489 |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 |
| | Biomass | 16 | 0 | 0 | 0.00 | 0 |
| | Solar | 2 | 0 | 0 | 0.00 | 0 |
| | Renewable(Total) | 18 | 0 | 0 | 0.00 | 0 |
| | Total Delhi | 2935 | 478 | 482 | 11.74 | 489 |
| | HP | Baspa HPS (IPP) (3*100) | 300 | 77 | 0 | 0.75 |
| Malana HPS (IPP) (2*43) | | 86 | 46 | 0 | 0.27 | 11 |
| Other Hydro | | 372 | 218 | 127 | 4.51 | 188 |
| Wind Power | | 0 | 0 | 0 | 0.00 | 0 |
| Biomass | | 0 | 0 | 0 | 0.00 | 0 |
| Solar | | 0 | 0 | 0 | 0.00 | 0 |
| Small Hydro (< 25 MW) | | 486 | 119 | 108 | 2.70 | 113 |
| Renewable(Total) | | 486 | 119 | 108 | 2.70 | 113 |
| Total HP | | 1244 | 460 | 235 | 8.24 | 343 |
| J & K | | Baqilhar HPS (IPP) (3*150+3*150) | 900 | 148 | 148 | 3.55 |
| | Other Hydro/IPP(including 98 MW Small Hydro) | 308 | 129 | 109 | 2.91 | 121 |
| | Gas/Diesel/Others | 190 | 0 | 0 | 0.00 | 0 |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 |
| | Biomass | 0 | 0 | 0 | 0.00 | 0 |
| | Solar | 0 | 0 | 0 | 0.00 | 0 |
| | Small Hydro (< 25 MW)Included in Other Hydro Above | 98 | 0 | 0 | 0.00 | 0 |
| | Renewable(Total) | 98 | 0 | 0 | 0.00 | 0 |
| Total J & K | 1398 | 277 | 257 | 6 | 269 | |

| | | | | | |
|--|-------|--------|---------|--------|-------|
| Total State Control Area Generation | 50078 | 17846 | 16199 | 424.20 | 17675 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | 7779.9 | 7225.24 | 194.99 | 8125 |
| Total Regional Availability(Gross) | 75315 | 42316 | 32755 | 881.42 | 36726 |

IV. Total Hydro Generation:

| | | | | | |
|--------------------------|-------|-------|------|--------|------|
| Regional Entities Hydro | 12234 | 8988 | 1521 | 85.39 | 3558 |
| State Control Area Hydro | 7163 | 2299 | 1699 | 41.91 | 2051 |
| Total Regional Hydro | 19397 | 11287 | 3220 | 127.31 | 5609 |

V. Total Renewable Generation:

| | | | | | |
|------------------------------|------|-----|-----|-------|-----|
| Regional Entities Renewable | 30 | 0 | 0 | 0.15 | 6 |
| State Control Area Renewable | 7356 | 351 | 603 | 13.00 | 542 |
| Total Regional Renewable | 7386 | 351 | 603 | 13.15 | 548 |

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

| Element | Peak(19:00 Hrs) MW | Off Peak(03:00 Hrs) MW | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|---|-----------------------|---------------------------|--------------------------|---------|---------------|--------------|------------------|
| | | | Import | Export | Import | Export | |
| Vindhychal(HVDC B/B) | -400 | -250 | 50 | 400 | 0.29 | 5.49 | -5.19 |
| 765 KV Gwalior-Agra (D/C) | 2491 | 2269 | 2707 | 0 | 59.41 | 0.00 | 59.41 |
| 400 KV Zerda-Kankroli | -40 | -191 | 0 | 206 | 0.00 | 2.20 | -2.20 |
| 400 KV Zerda-Bhimnal | 84 | -52 | 121 | 115 | 0.00 | 0.64 | -0.64 |
| 220 KV Auraiya-Malanpur | -78 | -94 | 0 | 122 | 0.00 | 2.07 | -2.07 |
| 220 KV Badod-Kota/Morak | -45 | -94 | 0 | 62 | 0.00 | 1.52 | -1.52 |
| Mundra-Mohinderghar(HVDC Bipole) | 2303 | 2498 | 2507 | 0.00 | 58.90 | 0.00 | 58.90 |
| 400 KV RAPP-Subalpur | 309 | 176 | 309 | 0 | 6.09 | 0.00 | 6.09 |
| 400 KV Vindhychal-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 kV Phagi-Gwalior (D/C) | 1140 | 1023 | 700 | 0 | 28.81 | 0.00 | 28.81 |
| +/- 800 kV HVDC Champa-Kurushetra | 150 | 0 | 0 | 0 | 2.00 | 0.00 | 2.00 |
| Sub Total WR | 5764 | 5285 | | | 153.51 | 11.92 | 141.59 |
| 400 kV Sasaram - Varanasi | 256 | 275 | 277 | 0 | 6.59 | 0.00 | 6.59 |
| 400 kV Sasaram - Allahabad | 132 | 110 | 150 | 0 | 2.92 | 0.00 | 2.92 |
| 400 KV MZP- GKP (D/C) | 225 | 146 | 387 | 0 | 5.40 | 0.00 | 5.40 |
| 400 KV Patna-Balia(D/C) X 2 | 703 | 705 | 816 | 0 | 17.08 | 0.00 | 17.08 |
| 400 KV B'Sharif-Balia (D/C) | 76 | 78 | 182 | 0 | 2.23 | 0.00 | 2.23 |
| 765 KV Gaya-Balia | 268 | 190 | 288 | 0 | 5.56 | 0.00 | 5.56 |
| 765 KV Gaya-Varanasi (D/C) | 434 | 388 | 760 | 0 | 12.18 | 0.00 | 12.18 |
| 220 KV Pusauli-Sahupuri | 89 | 188 | 206 | 0 | 4.04 | 0.00 | 4.04 |
| 132 KV K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.48 | 0.00 | 0.48 |
| 132 KV Son Ngr-Rihand | -27 | -20 | 0 | 29 | 0.00 | 0.42 | -0.42 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -215 | -121 | 8 | 215 | 0.00 | 2.44 | -2.44 |
| 400 KV Barh -GKP (D/C) | 534 | 488 | 550 | 0 | 11.46 | 0.00 | 11.46 |
| 400 kV B'Sharif - Varanasi (D/C) | 51 | 17 | 130 | 78 | 0.37 | 0.00 | 0.37 |
| Sub Total ER | 2526 | 2444 | | | 68.30 | 2.86 | 65.44 |
| +/- 800 KV HVDC BiswanathCharialli-Agra | -510 | -504 | 0 | -510.00 | 0.00 | 12.04 | -12.04 |
| Sub Total NER | -510 | -504 | | | 0.00 | 12.04 | -12.04 |
| Total IR Exch | 7780 | 7225 | | | 221.81 | 26.82 | 194.99 |

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

| ER | ISGS/LT Schedule (MU) | | Bilateral Schedule (MU) | | Power Exchange Shdl (MU) | | Wheeling (MU) | |
|-------|-----------------------|-------|-------------------------|------------|--------------------------|------------|---------------|------------|
| | Bhutan | Total | Through ER | Through WR | Through ER | Through WR | Through ER | Through WR |
| 43.23 | 0.23 | 43.46 | -2.26 | 0.85 | 6.20 | -0.22 | 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 |
| 47.40 | 147.09 | 194.49 | 53.40 | 141.59 | 194.99 | 6.00 | -5.50 | 0.50 |

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

| Element | Peak(19:00 Hrs) MW | Off Peak(03:00 Hrs) MW | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|---------------------------------|-----------------------|---------------------------|--------------------------|--------|-------------|--------|------------------|
| | | | Import | Export | Import | Export | |
| 132 KV Tanakpur - Mahendarnagar | -38 | -36 | 0 | 40 | 0 | 1 | -0.88 |

VII. 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 | 0.23 | 4.63 | 52.55 | 78.04 | 13.89 | 3.26 | 0.28 | 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) | |
| 50.25 | 18.03 | 49.78 | 0.06 | 50.00 | 0.033 | 0.058 | 50.08 | 49.90 | 21.96 |

VIII(A). Voltage profile 400 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Volta ge Deviat |
|-------------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|-----------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <380 kV | <390 kV | >420 kV | >430 kV | |
| Rihand | 400 | 410 | 15:15 | 402 | 0:03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 417 | 1:06 | 399 | 18:52 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly(PG)400kV | 400 | 417 | 0:45 | 396 | 18:47 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 417 | 17:06 | 404 | 18:53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 429 | 3:53 | 414 | 7:25 | 0.0 | 0.0 | 51.2 | 0.0 | 51.2 |
| Ballabgarh | 400 | 425 | 4:00 | 410 | 7:33 | 0.0 | 0.0 | 19.5 | 0.0 | 19.5 |
| Bawana | 400 | 427 | 3:53 | 412 | 12:09 | 0.0 | 0.0 | 31.4 | 0.0 | 31.4 |
| Bassi | 400 | 428 | 17:04 | 404 | 22:35 | 0.0 | 0.0 | 17.0 | 0.0 | 17.0 |
| Hissar | 400 | 421 | 3:52 | 406 | 7:11 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 |
| Moga | 400 | 423 | 3:01 | 410 | 7:19 | 0.0 | 0.0 | 12.8 | 0.0 | 12.8 |
| Abdullapur | 400 | 428 | 2:59 | 414 | 7:11 | 0.0 | 0.0 | 40.9 | 0.0 | 40.9 |
| Nalagarh | 400 | 429 | 2:04 | 416 | 6:58 | 0.0 | 0.0 | 71.0 | 0.0 | 71.0 |
| Kishenpur | 400 | 419 | 3:00 | 403 | 18:45 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 398 | 13:01 | 372 | 19:10 | 18.2 | 93.2 | 0.0 | 0.0 | 18.2 |
| Amritsar | 400 | 428 | 3:02 | 413 | 12:08 | 0.0 | 0.0 | 30.3 | 0.0 | 30.3 |
| Kashipur | 400 | 0 | 0:00 | 0 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 419 | 0:22 | 412 | 7:50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rishikesh | 400 | 423 | 1:01 | 404 | 7:49 | 0.0 | 0.0 | 13.5 | 0.0 | 13.5 |

VIII(B). Voltage profile 765 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Volta ge Deviat |
|----------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|-----------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV | |
| Fatehpur | 765 | 779 | 15:05 | 752 | 18:51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Balia | 765 | 0 | 0:00 | 0 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | | | |
|-----------------|-----|-----|-------|-----|-------|-------|-------|------|-----|-------|
| Moga | 765 | 801 | 17:05 | 781 | 12:11 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 |
| Agra | 765 | 794 | 17:05 | 766 | 7:49 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 807 | 3:00 | 787 | 9:17 | 0.0 | 0.0 | 25.7 | 0.0 | 25.7 |
| Unnao | 765 | 767 | 3:58 | 747 | 18:52 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 791 | 1:06 | 764 | 18:51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Meerut | 765 | 812 | 17:05 | 771 | 7:21 | 0.0 | 0.0 | 12.3 | 0.0 | 12.3 |
| Jhatikara | 765 | 807 | 3:00 | 782 | 7:32 | 0.0 | 0.0 | 20.5 | 0.0 | 20.5 |
| Bareilly 765 kV | 765 | 796 | 1:05 | 769 | 18:52 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anta | 765 | 795 | 17:02 | 770 | 22:13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 0 | 0:00 | 0 | 0:00 | 100.0 | 100.0 | 0.0 | 0.0 | 100.0 |

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 | 474.71 | 345.61 | 488.61 | 690.35 | 168.51 | 441.40 |
| Pong | 426.72 | 384.05 | 400.80 | 237.89 | 399.29 | 203.01 | 47.49 | 346.23 |
| Tehri | 829.79 | 740.04 | 781.75 | 342.74 | 773.95 | 251.21 | 37.13 | 250.00 |
| Koteshwar | 612.50 | 598.50 | 609.75 | 4.44 | 610.99 | 4.95 | 250.00 | 252.40 |
| Chamera-I | 760.00 | 748.75 | 758.05 | 0.00 | 0.00 | 0.00 | 89.69 | 84.42 |
| 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 | 505.17 | 1.92 | 496.11 | 1.62 | 123.55 | 86.31 |

* 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 | -101 | -202 | 0 | -101 | 0 | 0 | -6.39 | -1.13 | -7.52 |
| Delhi | -207 | -590 | 0 | -297 | -115 | 0 | -6.57 | -2.21 | -8.77 |
| Haryana | -622 | 310 | 0 | -314 | 143 | 0 | -9.99 | 5.38 | -4.61 |
| HP | 368 | 81 | 0 | 216 | -184 | 0 | 9.55 | -2.41 | 7.14 |
| J&K | 422 | 0 | 0 | 418 | 99 | 0 | 9.92 | 0.24 | 10.17 |
| CHD | 0 | -15 | 0 | 0 | -35 | 0 | 0.00 | -0.48 | -0.48 |
| Rajasthan | 28 | 374 | 0 | -7 | 312 | 0 | 8.14 | 7.78 | 15.92 |
| UP | 135 | -50 | 0 | -40 | -100 | 0 | -6.09 | -1.94 | -8.03 |
| Uttarakhand | 41 | 55 | 0 | 0 | 91 | 0 | 1.40 | 2.57 | 3.96 |
| Total | 65 | -38 | 0 | -124 | 210 | 0 | -0.03 | 7.81 | 7.77 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -101 | -655 | 0 | -374 | 0 | 0 |
| Delhi | -207 | -366 | 457 | -599 | 0 | 0 |
| Haryana | -314 | -622 | 316 | -10 | 0 | 0 |
| HP | 603 | 216 | 81 | -770 | 0 | 0 |
| J&K | 422 | 403 | 99 | -303 | 0 | 0 |
| CHD | 0 | 0 | 0 | -81 | 0 | 0 |
| Rajasthan | 920 | -7 | 374 | -96 | 0 | 0 |
| UP | 171 | -734 | 0 | -100 | 0 | 0 |
| Uttarakhand | 121 | 0 | 269 | 2 | 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 | 13.54% |
| ER | 0.00% |
| Simultaneous | 15.63% |

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

| | |
|----------------|-------|
| Rihand - Dadri | 0.00% |
|----------------|-------|

XII. Zero Crossing Violations

| State | No. of violations(Maximum 8 in a day) | Maximum number of continuous blocks without sign change |
|-------------|---------------------------------------|---|
| Punjab | 1 | 20 |
| Haryana | 0 | 9 |
| Rajasthan | 1 | 17 |
| Delhi | 6 | 49 |
| UP | 0 | 9 |
| Uttarakhand | 1 | 15 |
| HP | 1 | 15 |
| J & K | 2 | 20 |
| Chandigarh | 2 | 21 |

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 26.02.2017 :

XVI. Synchronisation of new generating units :

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

XVIII. Tripping of lines in pooling stations :

XIX. 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.

Report for : 26.02.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER