

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 25.03.2018
Date of Reporting : 26.03.2018



I. Regional Availability/Demand:

| Demand Met | Evening Peak (19:00 Hrs) MW | | | Off Peak (03:00 Hrs) MW | | | | Day Energy (Net MU) | |
|------------|-----------------------------|-------------|------------|-------------------------|----------|-------------|------------|---------------------|----------|
| | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage |
| 35077 | 744 | 38821 | 49.96 | 35696 | 293 | 35989 | 49.99 | 867.74 | 12.74 |

*Half hourly (over 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) | | | | | | | UI (OD:(+ve), UD:(-ve)) | | | | |
|--------------|--|--------------|--------------------|-------------|-------------|--|---------------|--------------------------|------------------------|-------------|----------------------|-----------------|
| | Thermal | Hydro | Gas/Naphtha/Diesal | Solar | Wind | Other (Biomass/ Small hydro/ Co-Generation etc.) | Total | Drawal Schedule (Net MU) | Actual Drawal (Net MU) | UI (Net MU) | Consumption (Net MU) | Shortages* (MU) |
| Punjab | 73.37 | 9.63 | 0.00 | 2.92 | 0.00 | 2.77 | 88.69 | 26.43 | 25.70 | -0.73 | 114.39 | 0.00 |
| Haryana | 62.68 | 0.35 | 4.21 | 0.18 | 0.00 | 1.32 | 68.74 | 44.17 | 49.77 | 5.60 | 118.51 | 0.00 |
| Rajasthan | 103.83 | 1.91 | 3.97 | 2.69 | 6.35 | 5.02 | 123.78 | 51.88 | 51.79 | -0.08 | 175.57 | 0.00 |
| Delhi | 0.00 | 0.00 | 13.12 | 0.00 | 0.00 | 0.00 | 13.12 | 51.21 | 49.74 | -1.47 | 62.86 | 0.00 |
| UP | 148.31 | 5.43 | 0.00 | 3.31 | 0.00 | 21.60 | 178.65 | 112.21 | 113.66 | 1.45 | 292.30 | 2.40 |
| Uttarakhand | 0.00 | 6.32 | 0.00 | 0.85 | 0.00 | 0.00 | 7.17 | 25.94 | 25.91 | -0.03 | 33.08 | 0.00 |
| HP | 0.00 | 2.75 | 0.00 | 0.00 | 0.00 | 2.61 | 5.36 | 18.95 | 18.97 | 0.02 | 24.33 | 0.00 |
| J & K | 0.00 | 5.27 | 0.00 | 0.00 | 0.00 | 0.00 | 5.27 | 40.02 | 38.58 | -1.43 | 43.85 | 10.34 |
| Chandigarh | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.87 | 2.85 | -0.03 | 2.85 | 0.00 |
| Total | 388.20 | 31.66 | 21.30 | 9.95 | 6.35 | 33.33 | 490.77 | 373.67 | 376.97 | 3.30 | 867.74 | 12.74 |

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

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

| State | Evening Peak (19:00 Hrs) MW | | | | Off Peak (03:00 Hrs) MW | | | | Maximum Demand Met (MW) and Time(Hrs) | | Shortage (MW) |
|--------------|-----------------------------|------------|------------|---------------------|-------------------------|------------|------------|---------------------|---------------------------------------|-----------|---------------|
| | Demand Met | Shortage | UI | STOA/PX transaction | Demand Met | Shortage | UI | STOA/PX transaction | UI (OG:(+ve), UD:(-ve)) | | |
| Punjab | 4608 | 0 | -134 | -1520 | 3967 | 0 | -31 | -1369 | 5493 | 8 | 0 |
| Haryana | 5339 | 0 | 208 | -552 | 5074 | 0 | 251 | -485 | 5907 | 20 | 0 |
| Rajasthan | 6469 | 0 | 17 | -226 | 7511 | 0 | -238 | -27 | 8918 | 8 | 0 |
| Delhi | 2728 | 0 | -265 | -537 | 2187 | 0 | 106 | -856 | 3045 | 21 | 0 |
| UP | 14152 | 255 | 578 | 32 | 13075 | 0 | 439 | 32 | 14152 | 19 | 255 |
| Uttarakhand | 1714 | 0 | 90 | 567 | 1281 | 0 | 0 | 659 | 1737 | 8 | 0 |
| HP | 961 | 0 | -280 | 13 | 851 | 0 | 18 | 400 | 1349 | 9 | 0 |
| J&K | 1958 | 489 | -72 | 645 | 1661 | 293 | -92 | 763 | 2137 | 7 | 534 |
| Chandigarh | 148 | 0 | -9 | -45 | 89 | 0 | 26 | -45 | 150 | 20 | 0 |
| Total | 38077 | 744 | 132 | -1623 | 35696 | 293 | 480 | -927 | 39282 | 20 | 766 |

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

III. Regional Entities :

| 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 |
|---|---------------------------------|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
| | | | | | | | | | |
| Rihand I STPS (2*500) | 1000 | 450 | 502 | 499 | 11.03 | 459 | 10.75 | 0.28 | |
| Rihand II STPS (2*500) | 1000 | 943 | 1011 | 1016 | 22.67 | 945 | 22.52 | 0.15 | |
| Rihand III STPS (2*500) | 1000 | 943 | 1010 | 1000 | 22.26 | 928 | 22.17 | 0.10 | |
| Dadri I STPS (4*210) | 840 | 769 | 449 | 485 | 12.89 | 537 | 13.01 | -0.13 | |
| Dadri II STPS (2*490) | 980 | 464 | 331 | 287 | 7.58 | 316 | 7.12 | 0.46 | |
| Unchahar I TPS (2*210) | 420 | 382 | 305 | 366 | 6.71 | 280 | 6.99 | -0.29 | |
| Unchahar II TPS (2*210) | 420 | 382 | 245 | 339 | 6.68 | 278 | 6.84 | -0.16 | |
| Unchahar III TPS (1*210) | 210 | 191 | 135 | 198 | 3.45 | 144 | 3.57 | -0.12 | |
| Unchahar IV TPS (1*500) | 500 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | |
| ISTPP (Jhajjar) (3*500) | 1500 | 1000 | 949 | 925 | 21.50 | 896 | 21.31 | 0.19 | |
| Dadri GPS (4*130.19+2*154.51) | 830 | 805 | 114 | 144 | 3.15 | 131 | 3.27 | -0.12 | |
| Anta GPS (3*88.71+1*153.2) | 419 | 406 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | |
| Auraya GPS (4*111.19+2*109.30) | 663 | 425 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 | |
| Dadri Solar(5) | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.02 | 0.00 | |
| Unchahar Solar(10) | 10 | 2 | 0 | 0 | 0.05 | 2 | 0.05 | 0.00 | |
| Singrauli Solar(15) | 15 | 3 | 0 | 0 | 0.08 | 3 | 0.06 | 0.01 | |
| KHEP(4*200) | 800 | 792 | 865 | 0 | 2.54 | 106 | 2.38 | 0.17 | |
| Sub Total (A) | 12612 | 9083 | 7503 | 6401 | 149 | 6196 | 147 | 1.64 | |
| B. NPC | NAPS (2*220) | 440 | 398 | 426 | 434 | 9.50 | 396 | 9.54 | -0.04 |
| RAPS- B (2*220) | 440 | 390 | 428 | 438 | 9.36 | 390 | 9.26 | 0.11 | |
| RAPS- C (2*220) | 440 | 200 | 230 | 230 | 4.79 | 200 | 4.80 | -0.01 | |
| Sub Total (B) | 1320 | 988 | 1084 | 1102 | 23.66 | 986 | 23.60 | 0.06 | |
| C. NHPC | Chamera I HPS (3*180) | 540 | 534 | 547 | 0 | 2.66 | 111 | 2.50 | 0.16 |
| Chamera II HPS (3*100) | 300 | 296 | 298 | 0 | 1.56 | 65 | 1.45 | 0.11 | |
| Chamera III HPS (3*77) | 231 | 228 | 234 | 0 | 1.02 | 42 | 0.92 | 0.10 | |
| Bairasuli HPS(3*60) | 180 | 61 | 183 | 0 | 0.88 | 37 | 0.80 | 0.08 | |
| Salal-HPS (6*115) | 690 | 113 | 560 | 90 | 3.45 | 144 | 2.72 | 0.74 | |
| Tanakpur-HPS (3*31.4) | 94 | 18 | 18 | 16 | 0.47 | 20 | 0.44 | 0.04 | |
| Uri-I HPS (4*120) | 480 | 224 | 360 | 180 | 5.76 | 240 | 5.38 | 0.38 | |
| Uri-II HPS (4*60) | 240 | 135 | 119 | 185 | 3.31 | 138 | 3.24 | 0.07 | |
| Dhauliganga-HPS (4*70) | 280 | 165 | 212 | 0 | 0.91 | 38 | 0.84 | 0.07 | |
| Dulhasti-HPS (3*130) | 390 | 385 | 409 | 0 | 2.50 | 104 | 2.30 | 0.20 | |
| Sewa-II HPS (3*40) | 120 | 119 | 123 | 0 | 0.70 | 29 | 0.70 | 0.00 | |
| Parbati 3 (4*130) | 520 | 16 | 0 | 0 | 0.00 | 0 | 0.39 | -0.39 | |
| Sub Total (C) | 4065 | 2294 | 3060 | 471 | 23 | 968 | 22 | 1.56 | |
| D.SJVNL | NJPC (6*250) | 1500 | 1497 | 1509 | 0 | 6.59 | 274 | 6.40 | 0.19 |
| Rampur HEP (6*68.67) | 412 | 412 | 405 | 0 | 1.85 | 77 | 1.78 | 0.07 | |
| Sub Total (D) | 1912 | 1910 | 1914 | 0 | 8.43 | 351 | 8.18 | 0.25 | |
| E. THDC | Tehri HPS (4*250) | 1000 | 553 | 552 | 0 | 6.12 | 255 | 6.15 | -0.03 |
| Koteswar HPS (4*100) | 400 | 111 | 92 | 91 | 2.70 | 113 | 2.66 | 0.05 | |
| Sub Total (E) | 1400 | 663 | 644 | 91 | 8.82 | 368 | 8.81 | 0.02 | |
| F. BBMB | Bhakra HPS (2*108+3*126+5*157) | 1379 | 640 | 1150 | 409 | 15.43 | 643 | 15.37 | 0.06 |
| Dehar HPS (6*165) | 990 | 130 | 495 | 0 | 3.28 | 137 | 3.12 | 0.16 | |
| Pong HPS (6*66) | 396 | 146 | 208 | 53 | 3.52 | 147 | 3.51 | 0.01 | |
| Sub Total (F) | 2765 | 917 | 1853 | 462 | 22.24 | 926 | 22.00 | 0.24 | |
| G. IPP(s)/JV(s) | Allain Duhangan HPS(IPP) (2*96) | 192 | 0 | 0 | 0 | 0.39 | 16 | 0.37 | 0.02 |
| Karcham Wantoo HPS(IPP) (4*250) | 1000 | 0 | 775 | 0 | 3.72 | 155 | 3.71 | 0.01 | |
| Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.20 | 8 | 0.18 | 0.01 | |
| Shree Cement TPS (2*150) | 300 | 0 | 256 | 176 | 5.11 | 213 | 5.27 | -0.16 | |
| Budhil HPS(IPP) (2*35) | 70 | 0 | 0 | 0 | 0.15 | 6 | 0.14 | 0.01 | |
| Sainj HPS (IPP) (2*50) | 100 | 0 | 0 | 0 | 0.27 | 0 | 0.27 | 0.00 | |
| Sub Total (G) | 1762 | 0 | 1031 | 176 | 9.56 | 398 | 9.67 | -0.11 | |
| H. Total Regional Entities (A-G) | 25837 | 15855 | 17089 | 8702 | 244.63 | 10193 | 240.97 | 3.66 | |

| 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 | 500 | 500 | 11.22 | 468 | |
| | Guru Nanak Dev TPS(Bhatinda) (2*110+2*120) | 460 | 0 | 0 | -0.01 | -1 | |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 362 | 364 | 8.00 | 333 | |
| | Goindwal(GVK) (2*270) | 540 | 145 | 145 | 3.58 | 149 | |
| | Rajpura (2*700) | 1400 | 1320 | 1320 | 31.22 | 1301 | |
| | Talwandi Saboo (3*660) | 1980 | 616 | 700 | 19.37 | 807 | |
| | Thermal (Total) | 6560 | 2943 | 3029 | 73.37 | 3057 | |
| | Total Hydro | 1000 | 377 | 268 | 9.63 | 401 | |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 | |
| | Biomass | 303 | 0 | 0 | 2.77 | 115 | |
| | Solar | 859 | 0 | 0 | 2.92 | 122 | |
| | Renewable(Total) | 1162 | 0 | 0 | 5.69 | 237 | |
| | Total Punjab | 8722 | 3320 | 3297 | 88.69 | 3695 | |
| | Haryana | Paripat TPS (2*210+2*250) | 920 | 576 | 649 | 14.52 | 605 |
| | | DCRTPP (Yamuna nagar) (2*300) | 600 | 0 | 0 | 0.00 | 0 |
| Faridabad GPS (NTPC)(2*137.75+1*156) | | 432 | 165 | 187 | 4.21 | 175 | |
| RGTPP (kheadar) (IPP) (2*600) | | 1200 | 770 | 1154 | 21.95 | 914 | |
| Magnum Diesel (IPP) | | 25 | 0 | 0 | 0.00 | 0 | |
| Jhajjar(CLP) (2*660) | | 1320 | 1030 | 1107 | 26.22 | 1092 | |
| Thermal (Total) | | 4497 | 2541 | 3097 | 66.89 | 2787 | |
| Total Hydro | | 62 | 6 | 15 | 0.35 | 15 | |
| Wind Power | | 0 | 0 | 0 | 0.00 | 0 | |
| Biomass | | 106 | 0 | 0 | 1.32 | 55 | |
| Solar | | 50 | 0 | 0 | 0.18 | 7 | |
| Renewable(Total) | | 156 | 0 | 0 | 1.50 | 62 | |
| Total Haryana | | 4715 | 2547 | 3112 | 68.74 | 2864 | |
| Rajasthan | | kota TPS (2*110+2*195+3*210) | 1240 | 825 | 823 | 20.06 | 836 |
| | | suratgarh TPS (6*250) | 1500 | 176 | 176 | 4.27 | 178 |
| | Chabra TPS (4*250) | 1000 | 1072 | 1091 | 26.30 | 1096 | |
| | Chabra TPS (1*660) | 660 | 0 | 0 | 0.00 | 0 | |
| | 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 | 162 | 165 | 3.97 | 165 | |
| | RAPS A (NPC) (1*100+1*200) | 300 | 189 | 189 | 4.39 | 183 | |
| | Barsingsar (NLC) (2*125) | 250 | 94 | 95 | 2.09 | 87 | |
| | Giral LTPS (2*125) | 250 | 0 | 0 | 0.00 | 0 | |
| | Rajwest LTPS (IPP) (8*135) | 1080 | 605 | 768 | 16.67 | 695 | |
| | VS LIGNITE LTPS (IPP) (1*135) | 135 | 0 | 0 | 0.00 | 0 | |
| | Kalisindh Thermal(2*600) | 1200 | 826 | 820 | 21.37 | 890 | |
| | Kawai(Adani) (2*660) | 1320 | 547 | 596 | 13.07 | 545 | |
| | Thermal (Total) | 9536 | 4496 | 4723 | 112.19 | 4674 | |
| | Total Hydro | 550 | 90 | 55 | 1.91 | 80 | |
| | Wind power | 4292 | 10 | 814 | 6.35 | 264 | |
| | Biomass | 102 | 27 | 27 | 0.64 | 27 | |
| | Solar | 1995 | 0 | 0 | 2.69 | 112 | |
| | Renewable/Others (Total) | 6389 | 37 | 841 | 9.68 | 403 | |
| | Total Rajasthan | 16475 | 4623 | 5619 | 123.78 | 5157 | |
| UP | Anpara TPS (3*210+2*500) | 1630 | 1353 | 1348 | 32.82 | 1367 | |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 302 | 298 | 6.60 | 275 | |
| | Paricha TPS (2*110+2*220+2*250) | 1160 | 692 | 709 | 14.73 | 614 | |
| | Panki TPS (2*105) | 210 | 0 | 0 | 0.00 | 0 | |
| | Harduaqanj TPS (1*60+1*105+2*250) | 665 | 533 | 541 | 10.74 | 447 | |
| | Tanda TPS (NTPC) (4*110) | 440 | 389 | 390 | 7.84 | 327 | |
| | Roza TPS (IPP) (4*300) | 1200 | 855 | 792 | 18.07 | 753 | |
| | Anpara-C (IPP) (2*600) | 1200 | 1045 | 1010 | 22.65 | 944 | |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 0 | 0 | 0.00 | 0 | |
| | Anpara-D(2*500) | 1000 | 0 | 0 | 1.17 | 49 | |
| | Lalitpur TPS(3*660) | 1980 | 615 | 613 | 12.97 | 540 | |
| | Bara(3*660) | 1980 | 892 | 894 | 20.73 | 864 | |
| | Thermal (Total) | 13109 | 6676 | 6595 | 148.31 | 6180 | |
| | Vishnuparvag_HPS (IPP)(4*110) | 440 | 68 | 68 | 1.57 | 65 | |
| | Alaknanda(4*82.5) | 330 | 82 | 0 | 0.96 | 40 | |
| | Other Hydro | 527 | 18 | 206 | 2.90 | 121 | |
| | Cogeneration | 981 | 900 | 900 | 21.60 | 900 | |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 | |
| | Biomass | 26 | 0 | 0 | 0.00 | 0 | |
| | Solar | 102 | 0 | 0 | 3.31 | 138 | |
| Renewable(Total) | 128 | 0 | 0 | 3.31 | 138 | | |
| Total UP | 15515 | 7744 | 7769 | 178.65 | 7444 | | |
| Uttarakhand | Other Hydro | 1250 | 462 | 155 | 6.32 | 263 | |
| | Total Gas | 450 | 0 | 0 | 0.00 | 0 | |
| | Wind Power | 0 | 0 | 0 | 0.00 | 0 | |
| | Biomass | 127 | 0 | 0 | 0.00 | 0 | |
| | Solar | 100 | 0 | 0 | 0.85 | 35 | |
| | Small Hydro (< 25 MW) | 180 | 0 | 0 | 0.00 | 0 | |
| | Renewable(Total) | 407 | 0 | 0 | 0.85 | 35 | |
| | Total Uttarakhand | 2107 | 462 | 155 | 7.17 | 299 | |
| Delhi | Rajghat TPS (2*67.5) | 135 | 0 | 0 | 0.00 | 0 | |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 36 | 38 | 0.83 | 35 | |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 149 | 155 | 3.71 | 155 | |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 | |
| | Bawana GPS (4*216+2*253) | 1370 | 261 | 451 | 8.58 | 358 | |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 0 | 0 | 0.00 | 0 | |
| | Thermal (Total) | 2917 | 446 | 643 | 13.12 | 547 | |
| | 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 | 446 | 643 | 13.12 | 547 | | |

| HP | | 300 | 29 | 0 | 0.89 | 37 |
|---|--|--------------|--------------|--------------|---------------|--------------|
| | Baspa HPS (IPP) (3*100) | 300 | 29 | 0 | 0.89 | 37 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.18 | 8 |
| | Other Hydro (>25MW) | 372 | 82 | 28 | 1.68 | 70 |
| | 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 | 177 | 60 | 2.61 | 109 |
| | Renewable(Total) | 486 | 177 | 60 | 2.61 | 109 |
| | Total HP | 1244 | 288 | 89 | 5.36 | 223 |
| J & K | Baglihar HPS (IPP) (3*150+3*150) | 900 | 148 | 148 | 3.55 | 148 |
| | Other Hydro/IPP(including 98 MW Small Hydro) | 308 | 88 | 65 | 1.71 | 71 |
| | 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 | 236 | 213 | 5 | 219 |
| Total State Control Area Generation | | 53111 | 19666 | 20897 | 490.77 | 20449 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 5519 | 8604 | 145.26 | 6052 |
| Total Regional Availability(Gross) | | 78948 | 42274 | 38203 | 880.65 | 36694 |

IV. Total Hydro Generation:

| Regional Entities Hydro | 12234 | 9111 | 1024 | 69.71 | 2898 |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| State Control Area Hydro | 7468 | 1627 | 1069 | 31.66 | 1463 |
| Total Regional Hydro | 19702 | 10738 | 2093 | 101.37 | 4361 |

V. Total Renewable Generation:

| Regional Entities Renewable | 30 | 0 | 0 | 0.15 | 6 |
|---------------------------------|-------------|------------|------------|--------------|------------|
| State Control Area Renewable | 8844 | 214 | 901 | 23.63 | 985 |
| Total Regional Renewable | 8874 | 214 | 901 | 23.79 | 991 |

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

| Element | Peak(19:00 Hrs) | | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|--|-----------------|---------------------|--------------------------|--------|---------------|--------------|---------------|
| | MW | Off Peak(03:00 Hrs) | Import | Export | Import | Export | |
| Vindhychal(HVDC B/B) | -200 | 250 | 250 | 200 | 3.11 | 1.08 | 2.03 |
| 765 KV Gwalior-Agra (D/C) | 1587 | 2658 | 2753 | 0 | 53.70 | 0.00 | 53.70 |
| 400 KV Zerda-Kankroli | -438 | -246 | 0 | 438 | 0.00 | 7.11 | -7.11 |
| 400 KV Zerda-Bhinmal | -351 | -185 | 0 | 378 | 0.00 | 5.61 | -5.61 |
| 220 KV Auraja-Malanpur | -53 | -31 | 0 | 100 | 0.00 | 0.95 | -0.95 |
| 220 KV Badod-Kota/Morak | -162 | -84 | 36 | 104 | 0.00 | 1.74 | -1.74 |
| Mundra-Mohindergarh(HVDC Bipole) | 301 | 298 | 503 | 0 | 7.68 | 0.00 | 7.68 |
| 400 KV RAPPCC-Sujalpur | 100 | 159 | 270 | 0 | 4.32 | 0.00 | 4.32 |
| 400 KV Vindhychal-Rihand | 962 | 954 | 0 | 968 | 0.00 | 22.52 | -22.52 |
| 765 kV Phagi-Gwalior (D/C) | 344 | 1022 | 589 | 0 | 23.79 | 0.00 | 23.79 |
| +/- 800 kV HVDC Champa-Kurushetra | 2000 | 2000 | 2000 | 0 | 44.25 | 0 | 44.25 |
| Sub Total WR | 4090 | 6795 | | | 136.86 | 39.01 | 97.85 |
| 400 kV Sasaram - Varanasi | -4 | -28 | 47 | 65 | 0.00 | 0.19 | -0.19 |
| 400 kV Sasaram - Allahabad | -96 | -87 | 0 | 100 | 0.00 | 1.69 | -1.69 |
| 400 kV MZP- GKP (D/C) | 20 | 104 | 194 | 0 | 2.69 | 0.00 | 2.69 |
| 400 kV Patna-Balia(D/C) X 2 | 354 | 467 | 0 | 565 | 11.09 | 0.00 | 11.09 |
| 400 kV B'Sharif-Balia (D/C) | 100 | 177 | 0 | 223 | 4.25 | 0.00 | 4.25 |
| 765 KV Gaya-Balia | 237 | 253 | 0 | 237 | 7.69 | 0.00 | 7.69 |
| 765 KV Gaya-Varanasi (D/C) | 73 | 195 | -315 | 0 | 4.97 | 0.00 | 4.97 |
| 220 KV Pusauli-Sahupuri | 153 | 106 | 193 | 0 | 3.21 | 0.00 | 3.21 |
| 132 KV K'nasa-Sahupuri | 0 | 0 | 1 | 0 | 0.00 | 0.00 | 0.00 |
| 132 KV Son Ngr-Rihand | 0 | -32 | 0 | -46 | 0.00 | -0.54 | 0.54 |
| 132 KV Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 765 KV Sasaram - Fatehpur | -60 | -53 | 69 | 60 | 0.00 | 0.06 | -0.06 |
| 400 KV Motihari -GKP (D/C) | 120 | 206 | 238 | 0 | 4.17 | 0.00 | 4.17 |
| 400 kV B'Sharif - Varanasi (D/C) | 32 | 1 | -112 | 59 | -0.83 | 0.00 | -0.83 |
| +/- 800 KV HVDC Alipurduar-Agra | 500 | 500 | 500 | 0 | 11.55 | 0.00 | 11.55 |
| Sub Total ER | 1429 | 1809 | | | 48.80 | 1.39 | 47.41 |
| +/- 800 KV HVDC BiswanathChariali-Agra | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sub Total NER | 0 | 0 | | | 0.00 | 0.00 | 0.00 |
| Total IR Exch | 5519 | 8604 | | | 185.66 | 40.40 | 145.26 |

VI(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 |
| 49.72 | 0.11 | 49.83 | -10.61 | -19.36 | -3.61 | 3.29 | 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 |
| 35.61 | 112.65 | 148.26 | 47.41 | 97.85 | 145.26 | 11.80 | -14.81 | -3.00 |

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

| Element | Peak(19:00 Hrs) | | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|---------------------------------|-----------------|---------------------|--------------------------|--------|-------------|--------|---------------|
| | MW | Off Peak(03:00 Hrs) | Import | Export | Import | Export | |
| 132 KV Tanakpur - Mahendarnagar | -40 | -34 | 0 | -40 | 0 | -1 | 0.85 |

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 | 0.00 | 5.13 | 56.22 | 83.32 | 10.21 | 1.79 | 0.05 | 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) | | |
| 50.17 | 10.02 | 49.80 | 20.39 | 49.99 | 0.029 | 0.053 | 50.08 | 49.88 | 16.68 |

VIII(A). Voltage profile 400 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | Voltage Deviation Index |
|-------------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|-------------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <380 kV | >420 kV | >430 kV | |
| Rihand | 400 | 409 | 14:57 | 399 | 22:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 421 | 7:10 | 398 | 18:43 | 0.0 | 0.0 | 0.1 | 0.0 |
| Bareilly(PG)400kV | 400 | 420 | 7:34 | 399 | 5:43 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 423 | 7:32 | 406 | 18:58 | 0.0 | 0.0 | 3.7 | 0.0 |
| Dadri | 400 | 423 | 2:00 | 408 | 18:41 | 0.0 | 0.0 | 12.5 | 0.0 |
| Ballabgarh | 400 | 423 | 13:11 | 411 | 18:57 | 0.0 | 0.0 | 15.5 | 0.0 |
| Bawana | 400 | 422 | 1:57 | 404 | 18:58 | 0.0 | 0.0 | 7.1 | 0.0 |
| Bassi | 400 | 420 | 16:02 | 404 | 22:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hissar | 400 | 419 | 13:11 | 404 | 18:41 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 422 | 1:58 | 404 | 18:25 | 0.0 | 0.0 | 0.7 | 0.0 |
| Abdullapur | 400 | 428 | 13:13 | 408 | 18:40 | 0.0 | 0.0 | 56.9 | 0.0 |
| Nalagarh | 400 | 430 | 1:57 | 414 | 18:38 | 0.0 | 0.0 | 84.6 | 0.0 |
| Kishenpur | 400 | 424 | 1:57 | 409 | 18:53 | 0.0 | 0.0 | 11.5 | 0.0 |
| Wagoora | 400 | 403 | 4:00 | 389 | 19:33 | 0.0 | 0.3 | 0.0 | 0.0 |
| Amritsar | 400 | 428 | 1:58 | 413 | 18:40 | 0.0 | 0.0 | 44.5 | 0.0 |
| Kashipur | 400 | 402 | 0:00 | 402 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hamirpur | 400 | 423 | 1:49 | 410 | 6:36 | 0.0 | 0.0 | 9.5 | 0.0 |
| Rishikesh | 400 | 417 | 15:39 | 395 | 18:41 | 0.0 | 0.0 | 0.0 | 0.0 |

VIII(B). Voltage profile 765 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | | Voltage Deviation Index |
|-----------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|-------------------------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV | |
| Fatehpur | 765 | 792 | 7:34 | 743 | 18:57 | 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 | 804 | 1:58 | 764 | 18:24 | 0.0 | 0.0 | 1.8 | 0.0 | 1.8 |
| Agra | 765 | 794 | 7:35 | 765 | 11:21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 804 | 13:31 | 780 | 18:21 | 0.0 | 0.0 | 4.1 | 0.0 | 4.1 |
| Unnao | 765 | 784 | 7:33 | 754 | 18:58 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lucknow | 765 | 801 | 7:36 | 763 | 18:41 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Meerut | 765 | 809 | 1:59 | 773 | 18:24 | 0.0 | 0.0 | 24.0 | 0.0 | 24.0 |
| Jhatikara | 765 | 798 | 13:14 | 773 | 18:57 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly 765 kV | 765 | 802 | 7:35 | 766 | 18:40 | 0.0 | 0.0 | 0.9 | 0.0 | 0.9 |
| Anta | 765 | 788 | 12:48 | 774 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Phagi | 765 | 796 | 12:59 | 776 | 0:00 | 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 | 474.49 | 345.61 | 465.40 | 199.81 | 188.76 | 511.46 |
| Pong | 426.72 | 384.05 | 394.43 | 116.59 | 396.50 | 151.67 | 32.17 | 285.21 |
| Tehri | 829.79 | 740.04 | 769.00 | 199.05 | 765.95 | 171.54 | 39.32 | 180.00 |
| Koteshwar | 612.50 | 598.50 | 609.98 | 4.44 | 610.87 | 4.95 | 180.00 | 178.79 |
| Chamera-I | 760.00 | 748.75 | 753.86 | 0.00 | 0.00 | 0.00 | 59.49 | 71.80 |
| 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 | 495.79 | 1.40 | 505.14 | 0.62 | 91.63 | 61.58 |

* 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 | -1167 | -202 | 0 | -1319 | -202 | 0 | -29.23 | -2.22 | -31.44 |
| Delhi | -449 | -407 | 0 | -453 | -84 | 0 | -10.12 | -5.29 | -15.41 |
| Haryana | -504 | 19 | 0 | -554 | 2 | 0 | -14.16 | -0.13 | -14.29 |
| HP | 307 | 93 | 0 | 247 | -234 | 0 | 9.08 | -1.28 | 7.80 |
| J&K | 516 | 247 | 0 | 516 | 129 | 0 | 11.85 | 5.59 | 17.44 |
| CHD | -45 | 0 | 0 | -45 | 0 | 0 | -0.54 | -0.18 | -0.72 |
| Rajasthan | -91 | 64 | 0 | -91 | -134 | 0 | -2.19 | -1.75 | -3.94 |
| UP | 67 | -35 | 0 | 67 | -35 | 0 | 1.55 | -0.82 | 0.73 |
| Uttarakhand | 196 | 463 | 0 | 196 | 371 | 0 | 4.83 | 9.37 | 14.20 |
| Total | -1171 | 244 | 0 | -1436 | -187 | 0 | -28.93 | 3.30 | -25.63 |

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

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -1167 | -1470 | 0 | -202 | 0 | 0 |
| Delhi | -351 | -456 | 74 | -683 | 0 | 0 |
| Haryana | -504 | -761 | 19 | -255 | 0 | 0 |
| HP | 594 | 199 | 104 | -579 | 0 | 0 |
| J&K | 516 | 472 | 435 | -433 | 0 | 0 |
| CHD | 0 | -45 | 0 | -60 | 0 | 0 |
| Rajasthan | -91 | -91 | 415 | -1248 | 0 | 0 |
| UP | 67 | 62 | -15 | -38 | 0 | 0 |
| Uttarakhand | 226 | 196 | 619 | 154 | 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. Zero Crossing Violations

| State | No. of violations(Maximum 8 in a day) | Maximum number of continuous blocks without sign change |
|-------------|---------------------------------------|---|
| Punjab | 0 | 11 |
| Haryana | 2 | 17 |
| Rajasthan | 0 | 10 |
| Delhi | 7 | 49 |
| UP | 0 | 12 |
| Uttarakhand | 7 | 96 |
| HP | 2 | 27 |
| J & K | 4 | 28 |
| Chandigarh | 3 | 23 |

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 25.03.2018 :

XVI. Synchronisation of new generating units :

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

1. 765 kV Orai (PG)- Jabalpur -1 with line reactors first time charged at 20.09 Hrs on 25.03.18 hrs.
2. 765 KV Bus-1at Orai (PG) first time charged at 20.12 Hrs on 25.03.18 hrs.
3. 765KV, 3*110MVAR B/R-1 at Orai first time successfully charged at 22:43hrs on 25.03.18 again out for taking line into service at 00.27 Hrs on 26.03.18 and charged again at 00.38 Hrs on 26.03.18.
4. 765KV Bus-2 at Orai first time successfully charged at 21:48 Hrs on 25.03.18.
5. 765 kV Orai (PG)- Jabalpur -2 with line reactors first time charged at 00.30 Hrs on 26.03.18 hrs.

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 : 25.03.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER