

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.04.2014  
Date of Reporting : 15.04.2014

### 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 |
| 33773                       | 2676     | 36450       | 50.12      | 29278                   | 0        | 29278       | 50.11      | 735.7               | 32.33    |

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

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

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

| State        | State's Control Area Generation (Net MU) |              |                     |               | Drawal Schedule<br>(Net MU) | Actual Drawal<br>(Net MU) | UI<br>(Net MU) | Consumption<br>(Net MU) | Shortages *<br>(MU) |
|--------------|--|--------------|---------------------|---------------|-----------------------------|---------------------------|----------------|-------------------------|---------------------|
|              | Thermal                                  | Hydro        | Renewable/others \$ | Total         |                             |                           |                |                         |                     |
| Punjab       | 39.54                                    | 5.28         |                     | 44.81         | 50.15                       | 49.54                     | -0.61          | 94.36                   | 0.00                |
| Haryana      | 29.54                                    | 0.45         |                     | 30.00         | 66.15                       | 66.07                     | -0.07          | 96.07                   | 0.60                |
| Rajasthan    | 106.50                                   | 0.65         | 8.41                | 115.56        | 43.54                       | 42.63                     | -0.91          | 158.19                  | 0.00                |
| Delhi        | 12.74                                    |              |                     | 12.74         | 55.38                       | 55.12                     | -0.26          | 67.85                   | 0.02                |
| UP           | 111.14                                   | 3.94         | 12.00               | 127.08        | 105.56                      | 101.54                    | -4.02          | 228.62                  | 29.13               |
| Uttarakhand  |  | 9.60         |                     | 9.60          | 20.45                       | 21.74                     | 1.29           | 31.33                   | 0.85                |
| HP           |  | 11.51        |                     | 11.51         | 11.70                       | 12.27                     | 0.56           | 23.78                   | 0.03                |
| J & K        |  | 12.25        | 0.00                | 12.25         | 20.81                       | 19.77                     | -1.04          | 32.01                   | 1.70                |
| Chandigarh   |  |              |                     | 0.00          | 3.33                        | 3.45                      | 0.12           | 3.45                    | 0.00                |
| <b>Total</b> | <b>299.46</b>                            | <b>43.67</b> | <b>20.41</b>        | <b>363.54</b> | <b>377.07</b>               | <b>372.13</b>             | <b>-4.95</b>   | <b>735.66</b>           | <b>32.33</b>        |

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

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

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

| State        | Evening Peak (20:00 Hrs) MW |             |             |                     | Off Peak (03:00 Hrs) MW |          |             |                     | Day Energy MU       |
|--------------|-----------------------------|-------------|-------------|---------------------|-------------------------|----------|-------------|---------------------|---------------------|
|              | Demand Met                  | Shortage    | UI          | STOA/PX transaction | Demand Met              | Shortage | UI          | STOA/PX transaction | STOA/PX transaction |
| Punjab       | 4336                        | 0           | 32          | -73                 | 3742                    | 0        | -59         | -166                | -2.45               |
| Haryana      | 5125                        | 231         | 77          | 290                 | 3853                    | 0        | -136        | 277                 | -0.18               |
| Rajasthan    | 6856                        | 0           | -225        | -46                 | 5882                    | 0        | -72         | 222                 | 3.57                |
| Delhi        | 3369                        | 0           | 48          | -195                | 2198                    | 0        | -110        | -714                | -8.07               |
| UP           | 9779                        | 2200        | -282        | 757                 | 10362                   | 0        | -159        | 1469                | 21.68               |
| Uttarakhand  | 1485                        | 145         | 109         | 318                 | 1062                    | 0        | 7           | 306                 | 8.22                |
| HP           | 1081                        | 0           | -17         | -331                | 765                     | 0        | 38          | -85                 | -3.71               |
| J&K          | 1557                        | 100         | 24          | -210                | 1312                    | 0        | 28          | -202                | -4.93               |
| Chandigarh   | 186                         | 0           | 4           | 0                   | 101                     | 0        | -11         | 0                   | 0.00                |
| <b>Total</b> | <b>33773</b>                | <b>2676</b> | <b>-231</b> | <b>510</b>          | <b>29278</b>            | <b>0</b> | <b>-474</b> | <b>1107</b>         | <b>14.14</b>        |

\* STOA figures are at sellers boundary & PX figures are at regional boundary.

### III. Regional Entities :

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

| Station/<br>Constituent                 | Inst. Capacity<br>(Effective) MW | Declared<br>Capacity(MW) | Peak MW<br>(Gross) | Off Peak MW<br>(Gross) | Energy<br>(Net MU) | Average<br>Sentout(MW) | Schedule<br>Net MU | UI          |        |
|---|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|-------------|--------|
|   |                                  |                          |                    |                        |                    |                        |                    | Net MU      | Net MU |
| <b>A. NTPC</b>                          |                                  |                          |                    |                        |                    |                        |                    |             |        |
| Singrauli STPS                          | 2000                             | 1572                     | 1818               | 1523                   | 37.38              | 1558                   | 37.28              | 0.10        |        |
| Rihand I STPS                           | 1000                             | 817                      | 919                | 810                    | 19.10              | 796                    | 19.03              | 0.07        |        |
| Rihand II STPS                          | 1000                             | 855                      | 957                | 857                    | 20.17              | 840                    | 19.95              | 0.21        |        |
| Rihand III STPS                         | 1000                             | 817                      | 878                | 831                    | 19.04              | 793                    | 18.95              | 0.09        |        |
| Dadri I STPS                            | 840                              | 813                      | 714                | 623                    | 14.69              | 612                    | 15.28              | -0.59       |        |
| Dadri II STPS                           | 980                              | 473                      | 435                | 390                    | 9.25               | 386                    | 9.60               | -0.35       |        |
| Unchahar I TPS                          | 420                              | 408                      | 386                | 323                    | 8.09               | 337                    | 8.59               | -0.49       |        |
| Unchahar II TPS                         | 420                              | 408                      | 362                | 329                    | 7.75               | 323                    | 8.23               | -0.48       |        |
| Unchahar III TPS                        | 210                              | 204                      | 172                | 180                    | 3.76               | 157                    | 3.94               | -0.18       |        |
| ISTPP (Jhajjhar)                        | 1500                             | 1000                     | 413                | 371                    | 7.74               | 323                    | 8.01               | -0.27       |        |
| Dadri GPS                               | 830                              | 807                      | 261                | 391                    | 8.77               | 365                    | 8.97               | -0.20       |        |
| Anta GPS                                | 419                              | 389                      | 232                | 237                    | 5.84               | 244                    | 5.73               | 0.12        |        |
| Auraiya GPS                             | 663                              | 649                      | 159                | 155                    | 3.48               | 145                    | 3.54               | -0.06       |        |
| Dadri Solar                             | 5                                |                          | 0                  | 0                      | 0.00               | 0                      |                    | 0.00        |        |
| Unchahar Solar                          | 10                               |                          | 0                  | 0                      | 0.00               | 0                      |                    | 0.00        |        |
| <b>Sub Total (A)</b>                    | <b>11297</b>                     | <b>9212</b>              | <b>7706</b>        | <b>7020</b>            | <b>165</b>         | <b>6877</b>            | <b>167</b>         | <b>-2</b>   |        |
| <b>B. NPC</b>                           |                                  |                          |                    |                        |                    |                        |                    |             |        |
| NAPS                                    | 440                              | 291                      | 327                | 333                    | 7.02               | 292                    | 6.00               | 1.02        |        |
| RAPS- B                                 | 440                              | 411                      | 453                | 456                    | 9.86               | 411                    | 9.86               | 0.00        |        |
| RAPS- C                                 | 440                              | 420                      | 462                | 466                    | 9.89               | 412                    | 10.08              | -0.19       |        |
| <b>Sub Total (B)</b>                    | <b>1320</b>                      | <b>1122</b>              | <b>1242</b>        | <b>1255</b>            | <b>26.77</b>       | <b>1115</b>            | <b>25.94</b>       | <b>0.82</b> |        |
| <b>C. NHPC</b>                          |                                  |                          |                    |                        |                    |                        |                    |             |        |
| Chamera I HPS                           | 540                              | 540                      | 540                | 0                      | 7.81               | 325                    | 7.80               | 0.00        |        |
| Chamera II HPS                          | 300                              | 300                      | 289                | 99                     | 3.32               | 138                    | 3.24               | 0.08        |        |
| Chamera III HPS                         | 231                              | 231                      | 155                | 0                      | 1.80               | 75                     | 1.78               | 0.02        |        |
| Bairasui HPS                            | 180                              | 122                      | 122                | 122                    | 2.96               | 123                    | 2.93               | 0.03        |        |
| Salal-HPS                               | 690                              | 407                      | 438                | 447                    | 9.82               | 409                    | 9.76               | 0.06        |        |
| Tanakpur-HPS                            | 94                               | 24                       | 30                 | 25                     | 0.61               | 25                     | 0.59               | 0.02        |        |
| Uri-HPS                                 | 480                              | 475                      | 470                | 475                    | 11.52              | 480                    | 11.40              | 0.12        |        |
| Uri-II HPS                              | 240                              | 180                      | 181                | 187                    | 4.49               | 187                    | 4.32               | 0.17        |        |
| Dhauliganga-HPS                         | 280                              | 0                        | 0                  | 0                      | 0.00               | 0                      | 0.00               | 0.00        |        |
| Dulhasti-HPS                            | 390                              | 387                      | 392                | 0                      | 3.22               | 134                    | 3.20               | 0.01        |        |
| Sewa-II HPS                             | 120                              | 122                      | 129                | 130                    | 3.07               | 128                    | 2.93               | 0.14        |        |
| Parbati 3                               | 390                              | 111                      | 129                | 0                      | 0.82               | 34                     | 0.80               | 0.02        |        |
| <b>Sub Total ©</b>                      | <b>3935</b>                      | <b>2899</b>              | <b>2874</b>        | <b>1485</b>            | <b>49</b>          | <b>2060</b>            | <b>49</b>          | <b>1</b>    |        |
| <b>D. SJVNL</b>                         |                                  |                          |                    |                        |                    |                        |                    |             |        |
| NJPC                                    | 1500                             | 1605                     | 698                | 0                      | 9.21               | 384                    | 9.09               | 0.13        |        |
| Rampur HEP                              | 206                              |                          | 0                  | 0                      | 0.00               | 0                      |                    | 0.00        |        |
| <b>Sub Total (D)</b>                    | <b>1706</b>                      | <b>1605</b>              | <b>698</b>         | <b>0</b>               | <b>9.21</b>        | <b>384</b>             | <b>9.09</b>        | <b>0.13</b> |        |
| <b>E. THDC</b>                          |                                  |                          |                    |                        |                    |                        |                    |             |        |
| Tehri HPS                               | 1000                             | 538                      | 510                | 0                      | 7.99               | 333                    | 8.00               | -0.01       |        |
| Koteshwar HPS                           | 400                              | 146                      | 280                | 91                     | 3.54               | 148                    | 3.50               | 0.04        |        |
| <b>Sub Total (E)</b>                    | <b>1400</b>                      | <b>684</b>               | <b>790</b>         | <b>91</b>              | <b>11.53</b>       | <b>480</b>             | <b>11.50</b>       | <b>0.03</b> |        |
| <b>F. BBMB</b>                          |                                  |                          |                    |                        |                    |                        |                    |             |        |
| Bhakra HPS                              | 1514                             | 327                      | 326                | 279                    | 7.89               | 329                    | 7.85               | 0.04        |        |
| Dehar HPS                               | 990                              | 312                      | 660                | 330                    | 8.05               | 335                    | 7.49               | 0.56        |        |
| Pong HPS                                | 396                              | 39                       | 244                | 0                      | 1.05               | 44                     | 0.95               | 0.11        |        |
| <b>Sub Total (F)</b>                    | <b>2900</b>                      | <b>679</b>               | <b>1230</b>        | <b>609</b>             | <b>16.99</b>       | <b>708</b>             | <b>16.29</b>       | <b>0.71</b> |        |
| <b>G. IPP(s)/JV(s)</b>                  |                                  |                          |                    |                        |                    |                        |                    |             |        |
| ADHPL HPS(IPP)                          | 192                              | 0                        | 394                | 0                      | 4.70               | 196                    | 0.46               | 4.24        |        |
| KWHEP HPS(IPP)                          | 1000                             | 0                        | 334                | 150                    | 4.70               | 196                    | 4.70               | 0.00        |        |
| Malana Stg-II HPS                       | 100                              | 0                        | 0                  | 0                      | 0.32               | 13                     | 0.31               | 0.02        |        |
| Shree Cement TPS                        | 300                              | 0                        | 263                | 231                    | 6.13               | 255                    | 6.08               | 0.05        |        |
| Budhil HPS(IPP)                         | 70                               | 0                        | 35                 | 0                      | 0.04               | 2                      | 0.58               | -0.55       |        |
| <b>Sub Total (G)</b>                    | <b>1662</b>                      | <b>0</b>                 | <b>1026</b>        | <b>381</b>             | <b>15.89</b>       | <b>662</b>             | <b>12.13</b>       | <b>3.76</b> |        |
| <b>H. Total Regional Entities (A-G)</b> | <b>24221</b>                     | <b>16201</b>             | <b>15567</b>       | <b>10841</b>           | <b>294.86</b>      | <b>12286</b>           | <b>290.79</b>      | <b>4.08</b> |        |

| 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)   | 1260                              | 450          | 660           | 13.77         | 574                  |
|   | Guru Nanak Dev TPS(Bhatinda)    | 440                               | 120          | 115           | 2.57          | 107                  |
|   | Guru Hargobind Singh TPS(L.mbt) | 920                               | 369          | 308           | 7.18          | 299                  |
|   | Goindwal(GVK)                   |                                   | 0            | 0             | 0.00          | 0                    |
|   | Rajpura                         | 700                               | 652          | 654           | 16.02         | 668                  |
|   | Talwandi Saboo                  | 660                               | 0            | 0             | 0.00          | 0                    |
|   | Thermal (Total)                 | 3980                              | 1591         | 1737          | 39.54         | 1647                 |
|   | Total Hydro                     | 1148                              | 305          | 210           | 5.28          | 220                  |
| <b>Total Punjab</b>   | <b>5128</b>                     | <b>1896</b>                       | <b>1947</b>  | <b>44.81</b>  | <b>1867</b>   |                      |
| Haryana   | Panipat TPS                     | 1367                              | 223          | 209           | 5.21          | 217                  |
|   | DCRTPP (Yamuna nagar)           | 600                               | 248          | 242           | 5.78          | 241                  |
|   | Faridabad GPS (NTPC)            | 432                               | 353          | 385           | 7.75          | 323                  |
|   | RGTPP (khedar) (IPP)            | 1200                              | 0            | 0             | 0.00          | 0                    |
|   | Magnum Diesel (IPP)             | 25                                | 0            | 0             | 0.00          | 0                    |
|   | Jhajjar(CLP)                    | 1320                              | 570          | 370           | 10.80         | 450                  |
|   | Thermal (Total)                 | 4944                              | 1394         | 1206          | 29.54         | 1231                 |
|   | Total Hydro                     | 62                                | 22           | 21            | 0.45          | 19                   |
|   | <b>Total Haryana</b>            | <b>5006</b>                       | <b>1416</b>  | <b>1227</b>   | <b>30.00</b>  | <b>1250</b>          |
|   | Rajasthan                       | kota TPS                          | 1240         | 1112          | 1061          | 25.68                |
| suratgarh TPS   |                                 | 1500                              | 1069         | 1010          | 24.46         | 1019                 |
| Chabra TPS  |                                 | 750                               | 420          | 357           | 9.87          | 411                  |
| Dholpur GPS   |                                 | 330                               | 136          | 139           | 3.32          | 138                  |
| Ramgarh GPS   |                                 | 221                               | 56           | 73            | 1.41          | 59                   |
| RAPS A (NPC)  |                                 | 300                               | 75           | 75            | 4.10          | 171                  |
| Barsingsar (NLC)  |                                 | 250                               | 177          | 175           | 3.99          | 166                  |
| Giral LTPS  |                                 | 250                               | 0            | 0             | 0.00          | 0                    |
| Rajwest LTPS (IPP)  |                                 | 1080                              | 949          | 637           | 20.57         | 857                  |
| VSLP LTPS (IPP)   |                                 | 135                               | 0            | 0             | 0.00          | 0                    |
| Kalisindh Thermal   |                                 | 600                               | 0            | 0             | 0.00          | 0                    |
| Kawai(Adani)  |                                 | 1320                              | 579          | 481           | 13.10         | 546                  |
| Thermal (Total)   |                                 | 7976                              | 4573         | 4008          | 106.50        | 4437                 |
| Total Hydro   |                                 | 550                               | 57           | 22            | 0.65          | 27                   |
| Wind power  |                                 | 2191                              | 251          | 441           | 7.41          | 309                  |
| Biomass   |                                 | 91                                | 28           | 28            | 0.66          | 28                   |
| Solar   |                                 | 201                               | 0            | 0             | 0.35          | 14                   |
| Renewable/Others (Total)  | 2483                            | 279                               | 469          | 8.41          | 351           |                      |
| <b>Total Rajasthan</b>  | <b>11009</b>                    | <b>4909</b>                       | <b>4499</b>  | <b>115.56</b> | <b>4815</b>   |                      |
| UP  | Anpara TPS                      | 1630                              | 927          | 974           | 21.30         | 888                  |
|   | Obra TPS                        | 1288                              | 307          | 368           | 7.90          | 329                  |
|   | Paricha TPS                     | 1140                              | 535          | 698           | 15.10         | 629                  |
|   | Panki TPS                       | 210                               | 0            | 0             | 0.00          | 0                    |
|   | Harduaganj TPS                  | 665                               | 356          | 360           | 8.40          | 350                  |
|   | Tanda TPS (NTPC)                | 440                               | 388          | 298           | 8.36          | 348                  |
|   | Roza TPS (IPP)                  | 1200                              | 756          | 756           | 19.66         | 819                  |
|   | Anpara-C (IPP)                  | 1200                              | 1083         | 1067          | 23.65         | 986                  |
|   | Bajaj Energy Pvt.Ltd(IPP) TPS   | 450                               | 280          | 280           | 6.78          | 283                  |
|   | Thermal (Total)                 | 8223                              | 4632         | 4801          | 111.14        | 4631                 |
|   | Vishnuparyag HPS (IPP)          | 400                               | 78           | 83            | 1.92          | 80                   |
|   | Other Hydro                     | 527                               | 121          | 67            | 2.02          | 84                   |
|   | Cogeneration                    | 981                               | 500          | 500           | 12.00         | 500                  |
|   | <b>Total UP</b>                 | <b>10131</b>                      | <b>5331</b>  | <b>5451</b>   | <b>127.08</b> | <b>5215</b>          |
| Uttarakhand   | Total Hydro                     | 1303                              | 445          | 391           | 9.60          | 400                  |
|   | <b>Total Uttarakhand</b>        | <b>1303</b>                       | <b>445</b>   | <b>391</b>    | <b>9.60</b>   | <b>400</b>           |
| Delhi   | Rajghat TPS                     | 135                               | 0            | 0             | 0.00          | 0                    |
|   | Delhi Gas Turbine               | 282                               | 79           | 81            | 1.88          | 78                   |
|   | Pragati Gas Turbine             | 330                               | 144          | 152           | 3.54          | 148                  |
|   | Rithala GPS                     | 95                                | 0            | 0             | 0.00          | 0                    |
|   | Bawana GPS                      | 1370                              | 0            | 0             | 0.00          | 0                    |
|   | Badarpur TPS (NTPC)             | 705                               | 355          | 340           | 7.32          | 305                  |
|   | Thermal (Total)                 | 2917                              | 578          | 573           | 12.74         | 531                  |
| <b>Total Delhi</b>  | <b>2917</b>                     | <b>578</b>                        | <b>573</b>   | <b>12.74</b>  | <b>531</b>    |                      |
| HP  | Baspa HPS (IPP)                 | 300                               | 91           | 0             | 1.31          | 55                   |
|   | Malana HPS (IPP)                | 86                                | 61           | 0             | 0.46          | 19                   |
|   | Other Hydro                     | 728                               | 427          | 391           | 9.75          | 406                  |
|   | <b>Total HP</b>                 | <b>1114</b>                       | <b>579</b>   | <b>391</b>    | <b>11.51</b>  | <b>480</b>           |
| J & K   | Baglihar HPS (IPP)              | 450                               | 382          | 376           | 9.11          | 380                  |
|   | Other Hydro/IPP                 | 436                               | 132          | 128           | 3.14          | 131                  |
|   | Gas/Diesel/Others               | 209                               | 0            | 0             | 0.00          | 0                    |
|   | <b>Total J &amp; K</b>          | <b>1094</b>                       | <b>514</b>   | <b>504</b>    | <b>12.25</b>  | <b>510</b>           |
| <b>Total State Control Area Generation</b>                        |                                 | <b>37702</b>                      | <b>15668</b> | <b>14983</b>  | <b>363.54</b> | <b>15068</b>         |
| <b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b> |                                 |                                   | <b>4307</b>  | <b>3811</b>   | <b>94.87</b>  | <b>3953</b>          |
| <b>Total Regional Availability(Gross)</b>                         |                                 | <b>61923</b>                      | <b>35542</b> | <b>29635</b>  | <b>753.27</b> | <b>31306</b>         |

rsd 600.00  
shanan 110.00  
ubdc 93.00  
mukera 205.00  
anandpur sahib 135.00

10 magpie  
7.5 pnr  
15 cpp

864.00  
506.00

#### IV. Total Hydro Generation:

|                             |              |             |             |               |             |
|-----------------------------|--------------|-------------|-------------|---------------|-------------|
| Regional Entities Hydro     | 11233        | 6321        | 2335        | 96.89         | 4037        |
| State Control Area Hydro    | 5589         | 2043        | 1606        | 43.67         | 1740        |
| <b>Total Regional Hydro</b> | <b>16823</b> | <b>8364</b> | <b>3941</b> | <b>140.56</b> | <b>5777</b> |

**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 B/B             | 500             | 300                 | 500                      | 350    | 8.13          | 0.72         | 7.42          |
| Gwalior-Agra (D/C)         | 1769            | 1517                | 1870                     | 0      | 38.69         | 0.00         | 38.69         |
| Zerda-Kankroli             | -216            | -281                | 0                        | 332    | 0.00          | 6.25         | -6.25         |
| Zerda-Bhinmal              | -196            | -226                | 0                        | 318    | 0.00          | 4.80         | -4.80         |
| Malanpur-Auraiya           | -48             | -38                 | 0                        | 53     | 0.00          | 0.58         | -0.58         |
| Badod-Kota/Morak           | -65             | -123                | 0                        | 157    | 0.00          | 2.71         | -2.71         |
| Mundra-Mohindergarh(HVDC)  | 2002            | 2003                | 2006                     | 0      | 48.34         | 0.00         | 48.34         |
| <b>Sub Total WR</b>        | <b>3746</b>     | <b>3152</b>         |                          |        | <b>95.16</b>  | <b>15.05</b> | <b>80.12</b>  |
| Pusauli Bypass             | 100             | 300                 | 300                      | 0      | 4.00          | 0.00         | 4.00          |
| MZP- GKP (D/C)             | 36              | 185                 | 283                      | 0      | 1.98          | 0.00         | 1.98          |
| Patna-Balia(D/C)           | 341             | 277                 | 471                      | 0      | 7.22          | 0.00         | 7.22          |
| B'Sharif-Balia (D/C)       | 213             | 97                  | 307                      | 0      | 3.62          | 0.00         | 3.62          |
| Pusauli-Balia              | -42             | -119                | 0                        | 134    | 0.00          | 1.56         | -1.56         |
| Gaya-Fatehpur (765 Kv)     | -144            | -132                | 49                       | 198    | 0.00          | 2.30         | -2.30         |
| Pusauli-Sahupuri           | 155             | 208                 | 209                      | 0      | 3.66          | 0.00         | 3.66          |
| K'nasa-Sahupuri            | 0               | 0                   | 0                        | 0      | 0.00          | 0.00         | 0.00          |
| Son Ngr-Rihand             | -28             | -30                 | 0                        | 32     | 0.00          | 0.64         | -0.64         |
| Garhwa-Rihand              | 0               | 0                   | 0                        | 0      | 0.00          | 0.00         | 0.00          |
| Sasaram - Fatehpur(765 KV) | -70             | -127                | 119                      | 163    | 0.00          | 1.22         | -1.22         |
| <b>Sub Total ER</b>        | <b>561</b>      | <b>659</b>          |                          |        | <b>20.47</b>  | <b>5.72</b>  | <b>14.75</b>  |
| <b>Total IR Exch</b>       | <b>4307</b>     | <b>3811</b>         |                          |        | <b>115.64</b> | <b>20.77</b> | <b>94.87</b>  |

**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 |
| 26.94                 | 0.32   | 27.26 | 6.37                    | -1.73      | -1.16                    | 0.72       | 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           | Through WR | Total | Through ER     | Through WR | Total |
| 32.47                  | 67.51                   | 99.98 | 14.75                | 80.12      | 94.87 | -17.72         | 12.61      | -5.11 |

**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 | >50.50 |
|-------|-------|-------|-------|-------|------------|-------------|--------|--------|--------|
| 0.00  | 0.20  | 4.18  | 21.31 | 58.00 | 58.25      | 12.53       | 7.90   | 0.00   | 0.00   |

| Frequency (Hz) |      |         |       | Average Frequency | Frequency Variation Index | Std. Dev. | Frequency in 15 Min Block |          |
|----------------|------|---------|-------|-------------------|---------------------------|-----------|---------------------------|----------|
| Maximum        |      | Minimum |       |                   |                           |           | MAX (Hz)                  | MIN (Hz) |
| Freq           | Time | Freq    | Time  | Hz                |                           |           |                           |          |
| 50.35          | 6.03 | 49.67   | 14.44 | 49.98             | 0.10                      | 0.10      | 50.29                     | 49.83    |

**VII. Voltage profile 400 kV**

| Station    | Voltage Level (kV) | Maximum     |       | Minimum      |       | Voltage (in % of Time) |         |         |         |
|------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|
|            |                    | Voltage(KV) | Time  | Voltage (KV) | Time  | <380 kV                | <390 kV | >420 kV | >430 kV |
| Rihand     | 400                | 407         | 11:57 | 398          | 09:06 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Gorakhpur  | 400                | 440         | 13:03 | 412          | 23:35 | 0.0                    | 0.0     | 71.4    | 28.4    |
| Bareilly   | 400                | 421         | 03:22 | 403          | 19:12 | 0.3                    | 0.3     | 1.7     | 0.0     |
| Kanpur     | 400                | 419         | 13:02 | 401          | 19:14 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Dadri      | 400                | 424         | 02:58 | 404          | 19:12 | 0.0                    | 0.0     | 13.8    | 0.0     |
| Ballabgarh | 400                | 430         | 02:59 | 410          | 19:12 | 0.0                    | 0.0     | 53.5    | 0.0     |
| Bawana     | 400                | 427         | 02:41 | 406          | 19:12 | 0.0                    | 0.0     | 24.5    | 0.0     |
| Bassi      | 400                | 431         | 03:03 | 415          | 09:51 | 0.0                    | 0.0     | 68.6    | 0.7     |
| Hissar     | 400                | 416         | 02:36 | 396          | 19:11 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Moga       | 400                | 416         | 02:27 | 395          | 19:12 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Abdullapur | 400                | 426         | 13:02 | 406          | 19:12 | 0.0                    | 0.0     | 21.7    | 0.0     |
| Nalagarh   | 400                | 426         | 02:59 | 404          | 19:12 | 0.0                    | 0.0     | 18.9    | 0.0     |
| Kishenpur  | 400                | 421         | 03:53 | 398          | 19:12 | 0.0                    | 0.0     | 0.4     | 0.0     |
| Wagoora    | 400                | 410         | 04:07 | 384          | 20:26 | 0.0                    | 8.6     | 0.0     | 0.0     |

**VIII. Voltage profile 765 kV**

| Station  | Voltage Level (kV) | Maximum     |       | Minimum      |       | Voltage (in % of Time) |         |         |         |
|----------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|
|          |                    | Voltage(KV) | Time  | Voltage (KV) | Time  | <728 kV                | <742 kV | >800 kV | >820 kV |
| Fatehpur | 765                | 776         | 11:30 | 740          | 19:13 | 0.0                    | 0.6     | 0.0     | 0.0     |
| Balia    | 765                | 771         | 13:05 | 723          | 22:32 | 8.6                    | 35.4    | 0.0     | 0.0     |
| Moga     | 765                | 794         | 02:42 | 754          | 19:12 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Agra     | 765                | 798         | 13:02 | 750          | 00:41 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Bhiwani  | 765                | 802         | 13:02 | 769          | 19:12 | 0.0                    | 0.0     | 0.5     | 0.0     |
| Unnao    | 765                | 758         | 13:04 | 717          | 09:05 | 1.6                    | 48.8    | 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 <sup>3</sup> /s) | Usage (m <sup>3</sup> /s) |
| Bhakra            | 513.59     | 445.62   | 482.04             | 503.43      | 478.33    | 420.92      | 493.48                     | 284.98                    |
| Pong              | 426.72     | 384.05   | 402.12             | 266.33      | 400.15    | 223.85      | 89.42                      | 30.64                     |
| Tehri             | 829.79     | 740.04   | 772.90             | 238.00      | 818.65    | 982.26      | 77.02                      | 216.00                    |
| Koteshwar         | 612.50     | 598.50   | 610.92             | 4.95        | 612.40    | 5.73        | 196.00                     | 208.00                    |
| Chamera-I         | 760.00     | 748.75   | NA                 | NA          | NA        | NA          | 81.53                      | 107.03                    |
| Rihand            | 268.22     | 252.98   | 259.45             | 274.80      | 258.99    | 250.70      | NA                         | NA                        |
| RPS               | 352.80     | 343.81   | NA                 | NA          | NA        | NA          | NA                         | NA                        |
| Jawahar Sagar     | 298.70     | 295.78   | NA                 | NA          | NA        | NA          | NA                         | NA                        |
| RSD               | 527.91     | 487.91   | 514.74             | 144.00      | 506.85    | 144.00      | 224.78                     | 127.17                    |

\* NA: Not Available

**X. System Constraints:**

**XI. Grid Disturbance / Any Other Significant Event:**

**XII. Weather Conditions For 14.04.2014 :**

1. Normal Weather in NR.

**XIII. Synchronisation of new generating units :**

0.00

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

**XV. Tripping of lines in pooling stations :**

**XVI. Complete generation loss in a generating station :**

Dhauliganga (280MW) are out of operation since 16.06.2013.

Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood Dhauliganga expected by April, 2014 .

Report for : 14.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER