

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त महायक कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.10.2014  
Date of Reporting : 26.10.2014

### 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 |
| 35827                       | 900      | 36727       | 0.00       | 30576                   | 1075     | 31651       | 0.00       | 756.1               | 20.02    |

\* 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<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       | 31.19                                    | 10.20        |                     | 41.39         | 53.45                       | 54.53                     | 1.08           | 95.92                   | 0.00                |
| Haryana      | 49.62                                    | 0.53         |                     | 50.16         | 57.40                       | 57.64                     | 0.24           | 107.79                  | 0.00                |
| Rajasthan    | 120.41                                   | 4.57         | 3.80                | 128.78        | 46.68                       | 47.01                     | 0.33           | 175.79                  | 0.00                |
| Delhi        | 24.36                                    |              |                     | 24.36         | 39.38                       | 39.89                     | 0.51           | 64.24                   | 0.00                |
| UP           | 120.90                                   | 7.30         | 1.20                | 129.40        | 101.71                      | 99.09                     | -2.61          | 228.49                  | 19.94               |
| Uttarakhand  |  | 9.90         |                     | 9.90          | 17.87                       | 18.18                     | 0.31           | 28.08                   | 0.08                |
| HP           |  | 8.03         |                     | 8.03          | 11.20                       | 11.12                     | -0.08          | 19.15                   | 0.00                |
| J & K        |  | 6.30         | 0.00                | 6.30          | 24.67                       | 27.02                     | 2.35           | 33.31                   | 0.00                |
| Chandigarh   |  |              |                     | 0.00          | 3.36                        | 3.38                      | 0.02           | 3.38                    | 0.00                |
| <b>Total</b> | <b>346.47</b>                            | <b>46.83</b> | <b>5.00</b>         | <b>398.30</b> | <b>355.71</b>               | <b>357.85</b>             | <b>2.14</b>    | <b>756.15</b>           | <b>20.02</b>        |

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

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

| State        | Evening Peak (20:00 Hrs) MW |            |             |                     | Off Peak (03:00 Hrs) MW |             |            |                     | # Max(hourly) Demand<br>Met of Day (MW) |
|--------------|-----------------------------|------------|-------------|---------------------|-------------------------|-------------|------------|---------------------|---|
|              | Demand Met                  | Shortage   | UI          | STOA/PX transaction | Demand Met              | Shortage    | UI         | STOA/PX transaction |   |
| Punjab       | 4835                        | 0          | -215        | -1                  | 3520                    | 0           | 128        | -83                 | 4872                                    |
| Haryana      | 5797                        | 0          | -16         | -2                  | 4141                    | 0           | 80         | 31                  | 6055                                    |
| Rajasthan    | 7195                        | 0          | -192        | 209                 | 7393                    | 0           | -139       | 153                 | 8054                                    |
| Delhi        | 3181                        | 0          | -41         | -322                | 2527                    | 0           | 100        | -552                | 3221                                    |
| UP           | 10634                       | 860        | 261         | 608                 | 10161                   | 1075        | 88         | 714                 | 10634                                   |
| Uttarakhand  | 1372                        | 40         | -45         | 304                 | 1011                    | 0           | 47         | 359                 | 1455                                    |
| HP           | 989                         | 0          | -26         | -439                | 542                     | 0           | 19         | -37                 | 1055                                    |
| J&K          | 1647                        | 0          | -68         | 76                  | 1181                    | 0           | 50         | 31                  | 2037                                    |
| Chandigarh   | 177                         | 0          | -19         | 0                   | 100                     | 0           | -12        | 0                   | 181                                     |
| <b>Total</b> | <b>35827</b>                | <b>900</b> | <b>-360</b> | <b>433</b>          | <b>30576</b>            | <b>1075</b> | <b>361</b> | <b>618</b>          | <b>35827</b>                            |

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

# figures may not be at simultaneous hour.

Diversity is 1.05

### III. Regional Entities :

| Station/<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<br>Net MU |
|---|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
|   |                                  |                          |                    |                        |                    |                        |                    |              |
| <b>A. NTPC</b>                          |                                  |                          |                    |                        |                    |                        |                    |              |
| Singrauli STPS (5*200+2*500)            | 2000                             | 1300                     | 1377               | 1403                   | 31.37              | 1307                   | 31.16              | 0.21         |
| Rihand I STPS (2*500)                   | 1000                             | 880                      | 855                | 930                    | 21.47              | 895                    | 19.84              | 1.63         |
| Rihand II STPS (2*500)                  | 1000                             | 463                      | 474                | 492                    | 11.24              | 468                    | 10.22              | 1.01         |
| Rihand III STPS (2*500)                 | 1000                             | 965                      | 958                | 924                    | 22.91              | 955                    | 21.83              | 1.08         |
| Dadri I STPS (4*210)                    | 840                              | 815                      | 641                | 597                    | 14.84              | 619                    | 13.91              | 0.94         |
| Dadri II STPS (2*490)                   | 980                              | 980                      | 722                | 713                    | 17.54              | 731                    | 17.35              | 0.19         |
| Unchahar I TPS (2*210)                  | 420                              | 400                      | 365                | 321                    | 8.88               | 370                    | 8.25               | 0.63         |
| Unchahar II TPS (2*210)                 | 420                              | 404                      | 330                | 311                    | 8.09               | 337                    | 7.53               | 0.56         |
| Unchahar III TPS (1*220)                | 210                              | 203                      | 172                | 154                    | 4.07               | 170                    | 3.73               | 0.34         |
| I-STPP (Jhajhar) (3*500)                | 1500                             | 990                      | 765                | 780                    | 16.76              | 698                    | 17.74              | -0.98        |
| Dadri GPS (4*130.19+2*154.51)           | 830                              | 800                      | 372                | 414                    | 9.07               | 378                    | 9.00               | 0.08         |
| Anta GPS (3*88.71+1*153.2)              | 419                              | 397                      | 237                | 236                    | 5.90               | 246                    | 5.83               | 0.06         |
| Auraiva GPS (4*111.19+2*109.30)         | 663                              | 591                      | 192                | 161                    | 4.42               | 184                    | 4.26               | 0.17         |
| Dadri Solar                             | 5                                | 1                        | 0                  | 0                      | 0.02               | 1                      | 0.03               | -0.01        |
| Unchahar Solar                          | 10                               | 3                        | 0                  | 0                      | 0.02               | 1                      | 0.07               | -0.05        |
| <b>Sub Total (A)</b>                    | <b>11297</b>                     | <b>9193</b>              | <b>7460</b>        | <b>7436</b>            | <b>177</b>         | <b>7358</b>            | <b>171</b>         | <b>6</b>     |
| <b>B. NPC</b>                           |                                  |                          |                    |                        |                    |                        |                    |              |
| NAPS (2*220)                            | 440                              | 281                      | 321                | 323                    | 6.80               | 283                    | 6.74               | 0.05         |
| RAPS- B (2*220)                         | 440                              | 400                      | 443                | 446                    | 9.62               | 401                    | 9.60               | 0.02         |
| RAPS- C (2*220)                         | 440                              | 190                      | 209                | 211                    | 4.40               | 183                    | 4.56               | -0.16        |
| <b>Sub Total (B)</b>                    | <b>1320</b>                      | <b>871</b>               | <b>973</b>         | <b>980</b>             | <b>20.81</b>       | <b>867</b>             | <b>20.90</b>       | <b>-0.09</b> |
| <b>C. NHPC</b>                          |                                  |                          |                    |                        |                    |                        |                    |              |
| Chamera I HPS (3*180)                   | 540                              | 534                      | 351                | 0                      | 1.61               | 67                     | 1.60               | 0.01         |
| Chamera III HPS (3*100)                 | 300                              | 300                      | 300                | 0                      | 2.14               | 89                     | 2.10               | 0.04         |
| Chamera III HPS (3*77)                  | 231                              | 229                      | 149                | 0                      | 1.33               | 56                     | 1.30               | 0.03         |
| Bairasuli HPS(3*60)                     | 180                              | 178                      | 179                | 0                      | 0.83               | 35                     | 0.75               | 0.09         |
| Salal-HPS (6*115)                       | 690                              | 213                      | 185                | 345                    | 5.46               | 227                    | 5.12               | 0.34         |
| Tanakpur-HPS (3*40)                     | 94                               | 55                       | 55                 | 55                     | 1.31               | 55                     | 1.31               | 0.00         |
| Uri-I HPS (4*120)                       | 480                              | 267                      | 310                | 262                    | 6.65               | 277                    | 6.42               | 0.23         |
| Uri-II HPS (4*60)                       | 240                              | 159                      | 202                | 163                    | 3.86               | 161                    | 3.82               | 0.04         |
| Dhauliganga-HPS (4*70)                  | 280                              | 72                       | 210                | 70                     | 1.79               | 75                     | 1.73               | 0.06         |
| Dulhasti-HPS (3*130)                    | 390                              | 387                      | 401                | 225                    | 5.63               | 235                    | 5.50               | 0.13         |
| Sewa-II HPS (3*40)                      | 120                              | 119                      | 120                | 0                      | 0.38               | 16                     | 0.38               | 0.01         |
| Parbati 3 (4*130)                       | 520                              | 260                      | 260                | 0                      | 0.69               | 29                     | 0.66               | 0.03         |
| <b>Sub Total (C)</b>                    | <b>4065</b>                      | <b>2774</b>              | <b>2722</b>        | <b>1120</b>            | <b>32</b>          | <b>1321</b>            | <b>31</b>          | <b>1</b>     |
| <b>D.SJVNL</b>                          |                                  |                          |                    |                        |                    |                        |                    |              |
| NJPC (6*250)                            | 1500                             | 1605                     | 1435               | 169                    | 12.22              | 509                    | 12.27              | -0.05        |
| Rampur HEP (4*68.67)                    | 275                              | 289                      | 372                | 46                     | 3.38               | 141                    | 3.24               | 0.14         |
| <b>Sub Total (D)</b>                    | <b>1775</b>                      | <b>1894</b>              | <b>1807</b>        | <b>215</b>             | <b>15.60</b>       | <b>650</b>             | <b>15.51</b>       | <b>0.08</b>  |
| <b>E. THDC</b>                          |                                  |                          |                    |                        |                    |                        |                    |              |
| Tehri HPS (4*250)                       | 1000                             | 1060                     | 725                | 0                      | 5.01               | 209                    | 4.98               | 0.03         |
| Koteshwar HPS (4*100)                   | 400                              | 91                       | 100                | 0                      | 1.76               | 73                     | 1.75               | 0.01         |
| <b>Sub Total (E)</b>                    | <b>1400</b>                      | <b>1151</b>              | <b>825</b>         | <b>0</b>               | <b>6.77</b>        | <b>282</b>             | <b>6.73</b>        | <b>0.04</b>  |
| <b>F. BBMB</b>                          |                                  |                          |                    |                        |                    |                        |                    |              |
| Bhakra HPS (3*108+2*126+6*157)          | 1514                             | 630                      | 1180               | 495                    | 15.07              | 628                    | 15.12              | -0.05        |
| Dehar HPS (6*165)                       | 990                              | 197                      | 495                | 145                    | 4.93               | 205                    | 4.73               | 0.20         |
| Pong HPS (6*66)                         | 396                              | 245                      | 324                | 192                    | 5.75               | 239                    | 5.87               | -0.12        |
| <b>Sub Total (F)</b>                    | <b>2900</b>                      | <b>1071</b>              | <b>1999</b>        | <b>832</b>             | <b>25.75</b>       | <b>1073</b>            | <b>25.72</b>       | <b>0.03</b>  |
| <b>G. IPP(s)/JV(s)</b>                  |                                  |                          |                    |                        |                    |                        |                    |              |
| ALLAIN DUHANGAN HPS(IPP) (2*96)         | 192                              | 0                        | 113                | 0                      | 0.86               | 36                     | 0.84               | 0.02         |
| KARCHAM WANGTOO HPS(IPP) (4*250)        | 1000                             | 0                        | 820                | 175                    | 6.38               | 266                    | 6.49               | -0.10        |
| Malana Stg-II HPS (2*50)                | 100                              | 0                        | 0                  | 0                      | 0.00               | 0                      | 0.00               | 0.00         |
| Shree Cement TPS (2*150)                | 300                              | 0                        | 239                | 237                    | 5.81               | 242                    | 5.84               | -0.03        |
| Budhil HPS(IPP)                         | 70                               | 0                        | 69                 | 0                      | 0.37               | 15                     | 0.37               | 0.00         |
| <b>Sub Total (G)</b>                    | <b>1662</b>                      | <b>0</b>                 | <b>1241</b>        | <b>412</b>             | <b>13.42</b>       | <b>559</b>             | <b>13.54</b>       | <b>-0.12</b> |
| <b>H. Total Regional Entities (A-G)</b> | <b>24419</b>                     | <b>16955</b>             | <b>17026</b>       | <b>10995</b>           | <b>290.63</b>      | <b>12109</b>           | <b>283.80</b>      | <b>6.83</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) (6*210)         | 1260                              | 500          | 510          | 11.51         | 480                  |
|   | Guru Nanak Dev TPS(Bhatinda) (4*110)          | 440                               | 80           | 80           | 1.76          | 73                   |
|   | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920                               | 203          | 397          | 6.34          | 264                  |
|   | Goindwal(GVK)                                 |                                   | 0            | 0            | 0.00          | 0                    |
|   | Rajpura (2*700)                               | 1400                              | 667          | 370          | 11.58         | 483                  |
|   | Talwandi Saboo (1*660)                        | 660                               | 0            | 0            | 0.00          | 0                    |
|   | <b>Thermal (Total)</b>                        | <b>4680</b>                       | <b>1450</b>  | <b>1357</b>  | <b>31.19</b>  | <b>1299</b>          |
|   | Total Hydro                                   | 1148                              | 415          | 450          | 10.20         | 425                  |
| <b>Total Punjab</b>   | <b>5828</b>                                   | <b>1865</b>                       | <b>1807</b>  | <b>41.39</b> | <b>1725</b>   |                      |
| Haryana   | Panipat TPS (4*110+2*210+2*250)               | 1367                              | 206          | 205          | 4.94          | 206                  |
|   | DCRTPP (Yamuna nagar) (2*300)                 | 600                               | 235          | 235          | 5.63          | 234                  |
|   | Faridabad GPS (NTPC)                          | 432                               | 184          | 173          | 4.24          | 177                  |
|   | RGTPP (khedar) (IPP) (2*600)                  | 1200                              | 348          | 712          | 14.99         | 624                  |
|   | Magnum Diesel (IPP)                           | 25                                | 0            | 0            | 0.00          | 0                    |
|   | Jhajjar(CLP) (2*660)                          | 1320                              | 1140         | 740          | 19.83         | 826                  |
|   | <b>Thermal (Total)</b>                        | <b>4944</b>                       | <b>2113</b>  | <b>2065</b>  | <b>49.62</b>  | <b>2068</b>          |
|   | Total Hydro                                   | 62                                | 21           | 24           | 0.53          | 22                   |
|   | <b>Total Haryana</b>                          | <b>5006</b>                       | <b>2134</b>  | <b>2089</b>  | <b>50.16</b>  | <b>2090</b>          |
|   | Rajasthan                                     | kota TPS (2*110+2*195+3*210)      | 1240         | 808          | 751           | 17.31                |
| suratgarh TPS (6*250)   |   | 1500                              | 922          | 960          | 24.03         | 1001                 |
| Chabra TPS (3*250)  |   | 750                               | 213          | 413          | 6.22          | 259                  |
| Dholpur GPS (3*110)   |   | 330                               | 109          | 94           | 2.53          | 105                  |
| Ramgarh GPS (1*3 + 1*35.5 +2*37.5 +1*110 +1*50)                   |   | 271                               | 163          | 170          | 3.99          | 166                  |
| RAPS A (NPC) (1*100+1*200)  |   | 300                               | 177          | 164          | 4.39          | 183                  |
| Barsingsar (NLC) (2*125)  |   | 250                               | 184          | 184          | 4.30          | 179                  |
| Giral LTPS (2*125)  |   | 250                               | 63           | 59           | 1.27          | 53                   |
| Rajwest LTPS (IPP) (8*135)  |   | 1080                              | 441          | 713          | 17.23         | 718                  |
| VS LIGNITE LTPS (IPP) (1*135)                                     |   | 135                               | 0            | 0            | 0.00          | 0                    |
| Kalisindh Thermal(1*600)  |   | 600                               | 0            | 501          | 11.07         | 461                  |
| Kawai(Adani) (2*660)  |   | 1320                              | 1154         | 1174         | 28.08         | 1170                 |
| <b>Thermal (Total)</b>  |   | <b>8026</b>                       | <b>4234</b>  | <b>5183</b>  | <b>120</b>    | <b>5017</b>          |
| Total Hydro   |   | 550                               | 231          | 105          | 4.57          | 191                  |
| Wind power  |   | 2798                              | 109          | 298          | 2.84          | 118                  |
| Biomass   |   | 99                                | 34           | 34           | 0.81          | 34                   |
| Solar   |   | 730                               | 0            | 0            | 0.14          | 6                    |
| Renewable/Others (Total)  |   | 3627                              | 143          | 332          | 3.80          | 158                  |
| <b>Total Rajasthan</b>  |   | <b>12203</b>                      | <b>4608</b>  | <b>5620</b>  | <b>128.78</b> | <b>5366</b>          |
| UP  | Anpara TPS (3*210+2*500)                      | 1630                              | 896          | 932          | 22.30         | 929                  |
|   | Obra TPS (2*50+2*94+5*200)                    | 1194                              | 448          | 450          | 10.30         | 429                  |
|   | Paricha TPS (2*110+2*220+2*250)               | 1140                              | 757          | 786          | 18.50         | 771                  |
|   | Panki TPS (2*105)                             | 210                               | 122          | 135          | 3.10          | 129                  |
|   | Harduaganj TPS (1*60+1*105+2*250)             | 665                               | 462          | 473          | 11.30         | 471                  |
|   | Tanda TPS (NTPC) (4*110)                      | 440                               | 357          | 370          | 8.70          | 363                  |
|   | Roza TPS (IPP) (4*300)                        | 1200                              | 810          | 824          | 19.70         | 821                  |
|   | Anpara-C (IPP) (2*600)                        | 1200                              | 762          | 792          | 19.10         | 796                  |
|   | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)         | 450                               | 320          | 361          | 7.90          | 329                  |
|   | <b>Thermal (Total)</b>                        | <b>8129</b>                       | <b>4934</b>  | <b>5123</b>  | <b>120.90</b> | <b>5038</b>          |
|   | Vishnuparyag HPS (IPP)                        | 400                               | 143          | 153          | 3.40          | 142                  |
|   | Other Hydro                                   | 527                               | 112          | 262          | 3.90          | 163                  |
|   | Cogeneration                                  | 981                               | 50           | 50           | 1.20          | 50                   |
|   | <b>Total UP</b>                               | <b>10037</b>                      | <b>5239</b>  | <b>5588</b>  | <b>129.40</b> | <b>5250</b>          |
|   | Uttarakhand                                   | Total Hydro                       | 1398         | 506          | 313           | 9.90                 |
| <b>Total Uttarakhand</b>  |   | <b>1398</b>                       | <b>506</b>   | <b>313</b>   | <b>9.90</b>   | <b>413</b>           |
| Delhi   | Raighat TPS (2*67.5)                          | 135                               | 0            | 0            | -0.01         | -1                   |
|   | Delhi Gas Turbine (6x30 + 3x34)               | 282                               | 78           | 78           | 1.84          | 77                   |
|   | Pragati Gas Turbine (2x104+ 1x122)            | 330                               | 263          | 265          | 6.40          | 267                  |
|   | Rithala GPS (3*36)                            | 95                                | 0            | 0            | 0.00          | 0                    |
|   | Bawana GPS (6*250)                            | 1370                              | 315          | 318          | 6.78          | 283                  |
|   | Badarpur TPS (NTPC) (3*95+2*210)              | 705                               | 382          | 383          | 9.36          | 390                  |
|   | <b>Thermal (Total)</b>                        | <b>2917</b>                       | <b>1038</b>  | <b>1044</b>  | <b>24.36</b>  | <b>1015</b>          |
| <b>Total Delhi</b>  | <b>2917</b>                                   | <b>1038</b>                       | <b>1044</b>  | <b>24.36</b> | <b>1015</b>   |                      |
| HP  | Baspa HPS (IPP) (2*150)                       | 300                               | 32           | 42           | 1.82          | 76                   |
|   | Malana HPS (IPP) (2*43)                       | 86                                | 59           | 0            | 0.47          | 19                   |
|   | Other Hydro                                   | 728                               | 229          | 244          | 5.74          | 239                  |
|   | <b>Total HP</b>                               | <b>1114</b>                       | <b>320</b>   | <b>286</b>   | <b>8.03</b>   | <b>334</b>           |
| J & K   | Baqilhar HPS (IPP) (3*150)                    | 450                               | 384          | 216          | 6.30          | 262                  |
|   | Other Hydro/IPP                               | 436                               | 0            | 0            | 0.00          | 0                    |
|   | Gas/Diesel/Others                             | 209                               | 0            | 0            | 0.00          | 0                    |
|   | <b>Total J &amp; K</b>                        | <b>1094</b>                       | <b>384</b>   | <b>216</b>   | <b>6.30</b>   | <b>262</b>           |
| <b>Total State Control Area Generation</b>                        |   | <b>39597</b>                      | <b>16094</b> | <b>16963</b> | <b>398.30</b> | <b>16454</b>         |
| <b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b> |   |                                   | <b>3474</b>  | <b>3959</b>  | <b>99.04</b>  | <b>4127</b>          |
| <b>Total Regional Availability(Gross)</b>                         |   | <b>64017</b>                      | <b>36594</b> | <b>31917</b> | <b>787.96</b> | <b>32690</b>         |

#### IV. Total Hydro Generation:

|                             |              |              |             |               |             |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| Regional Entities Hydro     | 11432        | 8286         | 2342        | 87.04         | 3627        |
| State Control Area Hydro    | 5684         | 1989         | 1656        | 46.83         | 1809        |
| <b>Total Regional Hydro</b> | <b>17116</b> | <b>10275</b> | <b>3998</b> | <b>133.87</b> | <b>5436</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             | 50              | 50                  | 300                      | 0      | 1.81          | 0.00         | 1.81          |
| Gwalior-Agra (D/C)         | 1374            | 1284                | 1918                     | 0      | 32.66         | 0.00         | 32.66         |
| Zerda-Kankroli             | -138            | -227                | 0                        | 236    | 0.00          | 3.97         | -3.97         |
| Zerda-Bhinmal              | -83             | -153                | 42                       | 181    | 0.00          | 2.21         | -2.21         |
| Malanpur-Auraiya           | -102            | -101                | 0                        | 118    | 0.00          | 2.13         | -2.13         |
| Badod-Kota/Morak           | -167            | -248                | 0                        | 249    | 0.00          | 5.22         | -5.22         |
| Mundra-Mohindergarh(HVDC)  | 1902            | 1899                | 1906                     | 0      | 45.96         | 0.00         | 45.96         |
| Vindhychal - Rihand        | 0               | 316                 | 345                      | 0      | 2.10          | 0.00         | 2.10          |
| <b>Sub Total WR</b>        | <b>2836</b>     | <b>2820</b>         |                          |        | <b>82.53</b>  | <b>13.53</b> | <b>69.00</b>  |
| Pusauli Bypass             | 400             | 400                 | 400                      | 0      | 9.67          | 0.00         | 9.67          |
| MZP- GKP (D/C)             | 140             | 236                 | 538                      | 0      | 6.79          | 0.00         | 6.79          |
| Patna-Balia(D/C)           | 104             | 224                 | 411                      | 0      | 6.33          | 0.00         | 6.33          |
| B'Sharif-Balia (D/C)       | 70              | 125                 | 309                      | 0      | 4.11          | 0.00         | 4.11          |
| Pusauli-Balia              | -79             | -66                 | 0                        | 86     | 0.00          | 1.43         | -1.43         |
| Gaya-Fatehpur (765 Kv)     | 0               | 146                 | 250                      | 0      | 1.76          | 0.00         | 1.76          |
| Pusauli-Sahupuri           | 146             | 152                 | 157                      | 0      | 3.05          | 0.00         | 3.05          |
| K'nasa-Sahupuri            | 0               | 0                   | 0                        | 0      | 0.00          | 0.00         | 0.00          |
| Son Ngr-Rihand             | -40             | -40                 | 0                        | 44     | 0.00          | 0.93         | -0.93         |
| Garhwa-Rihand              | 0               | 0                   | 0                        | 0      | 0.00          | 0.00         | 0.00          |
| Sasaram - Fatehpur(765 KV) | -103            | -38                 | 205                      | 122    | 0.70          | 0.00         | 0.70          |
| <b>Sub Total ER</b>        | <b>638</b>      | <b>1139</b>         |                          |        | <b>32.41</b>  | <b>2.37</b>  | <b>30.04</b>  |
| <b>Total IR Exch</b>       | <b>3474</b>     | <b>3959</b>         |                          |        | <b>114.93</b> | <b>15.89</b> | <b>99.04</b>  |

**V(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 |
| 22.19 | 1.53                  | 23.72 | 5.65                    | -0.34      | 1.39                     | 0.76       | 0.62          | -0.62      |

| 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 |
| 31.38                  | 56.34                   | 87.72 | 30.04                | 69.00      | 99.04 | -1.34          | 12.66      | 11.32 |

**VI. Frequency Profile**

| % of Time Frequency |       |       |       |       |            |             |             |        |        |
|---------------------|-------|-------|-------|-------|------------|-------------|-------------|--------|--------|
| <49.2               | <49.7 | <49.8 | <49.9 | <50.0 | 49.9-50.05 | 50.05-50.10 | 50.10-50.20 | >50.20 | >50.50 |
| 0.00                | 0.00  | 0.71  | 10.26 | 45.50 | 58.67      | 18.18       | 11.72       | 1.88   | NA     |

| 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                |                           |           |                           |          |
| 50.28          | 18.34 | 49.74   | 22.07 | 50.01             | 0.08                      | 0.09      | 0.00                      | 0.00     |

**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                | 417         | 21:27 | 408          | 00:03 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Gorakhpur  | 400                | 414         | 06:19 | 399          | 00:00 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Bareilly   | 400                | 419         | 21:00 | 404          | 18:13 | 0.2                    | 0.2     | 0.0     | 0.0     |
| Kanpur     | 400                | 420         | 16:02 | 408          | 18:11 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Dadri      | 400                | 418         | 16:04 | 407          | 18:15 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Ballabgarh | 400                | 424         | 02:30 | 410          | 18:15 | 0.0                    | 0.0     | 37.0    | 0.0     |
| Bawana     | 400                | 423         | 17:02 | 408          | 18:15 | 0.0                    | 0.0     | 10.9    | 0.0     |
| Bassi      | 400                | 426         | 20:56 | 409          | 09:13 | 0.0                    | 0.0     | 19.1    | 0.0     |
| Hissar     | 400                | 415         | 01:57 | 399          | 18:12 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Moga       | 400                | 422         | 02:00 | 404          | 18:16 | 0.0                    | 0.0     | 11.0    | 0.0     |
| Abdullapur | 400                | 424         | 01:59 | 396          | 18:20 | 0.0                    | 0.0     | 33.7    | 0.0     |
| Nalagarh   | 400                | 431         | 23:29 | 410          | 18:21 | 0.0                    | 0.0     | 78.6    | 0.2     |
| Kishenpur  | 400                | 418         | 01:57 | 397          | 18:39 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Wagoora    | 400                | 411         | 13:03 | 381          | 18:42 | 0.0                    | 13.6    | 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                | 774         | 17:05 | 745          | 18:20 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Balia    | 765                | 770         | 16:04 | 747          | 00:02 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Moga     | 765                | 799         | 03:03 | 767          | 18:27 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Agra     | 765                | 792         | 16:06 | 766          | 18:12 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Bhiwani  | 765                | 802         | 17:04 | 769          | 18:18 | 0.0                    | 0.0     | 1.1     | 0.0     |
| Unnao    | 765                | 764         | 16:04 | 744          | 00:04 | 0.0                    | 0.0     | 0.0     | 0.0     |

**IX. Reservoir Parameters:**

| Name of Reservoir | Parameters |          | Present Parameters |             | Last Year |             | Last day                   |                           |
|-------------------|------------|----------|--------------------|-------------|-----------|-------------|----------------------------|---------------------------|
|                   | FRL (m)    | MDDL (m) | Level (m)          | Energy (MU) | Level (m) | Energy (MU) | Inflow (m <sup>3</sup> /s) | Usage (m <sup>3</sup> /s) |
| Bhakra            | 513.59     | 445.62   | 507.69             | 1440.82     | 511.05    | 1605.30     | 249.36                     | 431.21                    |
| Pong              | 426.72     | 384.05   | 414.39             | 656.23      | 420.87    | 931.43      | 87.33                      | 359.60                    |
| Tehri             | 829.79     | 740.04   | 823.95             | 1086.79     | 824.65    | 1107.95     | 85.65                      | 109.00                    |
| Koteshwar         | 612.50     | 598.50   | 608.59             | 3.98        | 611.70    | 5.45        | 109.00                     | 117.00                    |
| Chamera-I         | 760.00     | 748.75   | 756.92             | 0.00        | 0.00      | 0.00        | 63.07                      | 43.72                     |
| Rihand            | 268.22     | 252.98   | 854.20             | 324.70      | 859.00    | 407.50      | 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   | 510.48             | 2.94        | 518.18    | 3.16        | 60.71                      | 131.64                    |

\* NA: Not Available

**X(A). Short-Term Open Access Details:**

| State        | Off- Peak Hours (03:00 Hrs) |            |           | Peak Hours (20:00 Hrs) |             |           | Day Energy (MU) |                 |              |
|--------------|-----------------------------|------------|-----------|------------------------|-------------|-----------|-----------------|-----------------|--------------|
|              | Bilateral (MW)              | IEX (MW)   | PXIL (MW) | Bilateral (MW)         | IEX (MW)    | PXIL (MW) | Bilateral (MU)  | IEX / PXIL (MU) | Total (MU)   |
| Punjab       | -203                        | 120        | 0         | -203                   | 202         | 0         | -4.88           | 4.60            | -0.28        |
| Delhi        | -428                        | -117       | -7        | -91                    | -224        | -7        | -4.80           | -3.19           | -7.99        |
| Haryana      | -42                         | 73         | 0         | -24                    | 21          | 0         | -0.90           | -1.57           | -2.47        |
| HP           | 81                          | -118       | 0         | 81                     | -520        | 0         | 1.94            | -2.02           | -0.08        |
| J&K          | 31                          | 0          | 0         | 27                     | 49          | 0         | 1.37            | 0.39            | 1.76         |
| CHD          | 0                           | 0          | 0         | 0                      | 0           | 0         | 0.00            | 0.00            | 0.00         |
| Rajasthan    | -64                         | 218        | 0         | -64                    | 274         | 0         | -1.54           | 4.15            | 2.61         |
| UP           | 714                         | 0          | 0         | 608                    | 0           | 0         | 14.74           | 0.00            | 14.74        |
| Uttarakhand  | 318                         | 42         | 0         | 220                    | 84          | 0         | 5.77            | 2.06            | 7.83         |
| <b>Total</b> | <b>407</b>                  | <b>218</b> | <b>-7</b> | <b>553</b>             | <b>-113</b> | <b>-7</b> | <b>11.70</b>    | <b>4.43</b>     | <b>16.13</b> |

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

| State       | Bilateral (MW) |         | IEX (MW) |         | PXIL (MW) |         |
|-------------|----------------|---------|----------|---------|-----------|---------|
|             | Maximum        | Minimum | Maximum  | Minimum | Maximum   | Minimum |
| Punjab      | -203           | -203    | 313      | 6       | 0         | 0       |
| Delhi       | -72            | -428    | -13      | -291    | -7        | -7      |
| Haryana     | -24            | -42     | 74       | -639    | 0         | 0       |
| HP          | 81             | 81      | 162      | -571    | 0         | 0       |
| J&K         | 133            | -18     | 98       | 0       | 0         | 0       |
| CHD         | 0              | 0       | 0        | 0       | 0         | 0       |
| Rajasthan   | -64            | -64     | 274      | -194    | 0         | 0       |
| UP          | 745            | 531     | 0        | 0       | 0         | 0       |
| Uttarakhand | 318            | 220     | 161      | 22      | 0         | 0       |

**XI. System Constraints:****XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 25.10.2014 :**  
Normal**XIV. Synchronisation of new generating units :**  
0.00**XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :****XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**