

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.02.2013  
Date of Reporting : 12.02.2013

### I. Regional Availability/Demand:

| Demand Met | Evening Peak (19:00 Hrs) MW |             |            | Demand Met | Off Peak (03:00 Hrs) MW |             |            | Demand Met | Day Energy (Net MU) |
|------------|-----------------------------|-------------|------------|------------|-------------------------|-------------|------------|------------|---------------------|
|            | Shortage                    | Requirement | Freq* (Hz) |            | Shortage                | Requirement | Freq* (Hz) |            | Shortage            |
| 32121      | 2761                        | 34882       | 49.93      | 25039      | 630                     | 25669       | 50.36      | 710.3      | 52.26               |

\* 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       | 34.11                                    | 9.66         |                     | 43.77         | 42.69                       | 43.27                     | 0.58           | 87.04                   | 2.34               |
| Haryana      | 42.17                                    | 0.35         |                     | 42.51         | 48.38                       | 48.57                     | 0.19           | 91.08                   | 0.11               |
| Rajasthan    | 85.58                                    | 3.74         | 12.13               | 101.46        | 69.33                       | 66.48                     | -2.85          | 167.94                  | 0.00               |
| Delhi        | 26.88                                    |              |                     | 26.88         | 33.77                       | 31.63                     | -2.14          | 58.51                   | 0.01               |
| UP           | 109.50                                   | 5.86         | 19.20               | 134.56        | 74.83                       | 74.71                     | -0.13          | 209.26                  | 47.79              |
| Uttarakhand  |  | 10.72        |                     | 10.72         | 20.75                       | 19.96                     | -0.78          | 30.68                   | 0.24               |
| HP           |  | 5.94         |                     | 5.94          | 18.02                       | 17.28                     | -0.74          | 23.22                   | 0.06               |
| J & K        |  | 6.98         | 0.00                | 6.98          | 34.40                       | 32.03                     | -2.37          | 39.01                   | 1.70               |
| Chandigarh   |  |              |                     | 0.00          | 3.71                        | 3.59                      | -0.13          | 3.59                    | 0.00               |
| <b>Total</b> | <b>298.24</b>                            | <b>43.25</b> | <b>31.33</b>        | <b>372.82</b> | <b>345.86</b>               | <b>337.50</b>             | <b>-8.36</b>   | <b>710.32</b>           | <b>52.26</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 (19:00 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 |               |
| Punjab       | 4519                        | 600         | -2          | -150                | 2750                    | 0          | 22          | 133                 | 0.42          |
| Haryana      | 4663                        | 11          | 13          | 14                  | 2868                    | 0          | 113         | -689                | -8.63         |
| Rajasthan    | 6623                        | 0           | -253        | 1031                | 6265                    | 0          | -127        | 832                 | 28.47         |
| Delhi        | 3013                        | 0           | 17          | -965                | 1290                    | 0          | -166        | -1655               | -30.64        |
| UP           | 8721                        | 2050        | 2           | -6                  | 8458                    | 630        | -198        | -71                 | -1.86         |
| Uttarakhand  | 1556                        | 0           | 35          | 518                 | 1017                    | 0          | -169        | 509                 | 11.48         |
| HP           | 1079                        | 0           | -89         | 116                 | 664                     | 0          | -127        | 380                 | 6.45          |
| J&K          | 1755                        | 100         | -233        | 400                 | 1639                    | 0          | -79         | 476                 | 10.11         |
| Chandigarh   | 193                         | 0           | -9          | -8                  | 89                      | 0          | -13         | -31                 | -0.31         |
| <b>Total</b> | <b>32121</b>                | <b>2761</b> | <b>-518</b> | <b>950</b>          | <b>25039</b>            | <b>630</b> | <b>-745</b> | <b>-116</b>         | <b>15.48</b>  |

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

### III. Regional Entities :

| Entity                                  | 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 |
|---|-------------------------|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|
|   |                         |                                  |                          |                    |                        |                    |                        |                    |              |
| A. NTPC                                 | Singrauli STPS          | 2000                             | 1960                     | 2095               | 1797                   | 45.73              | 1905                   | 45.45              | 0.28         |
|   | Rihand I STPS           | 1000                             | 925                      | 1001               | 705                    | 20.86              | 869                    | 20.87              | -0.01        |
|   | Rihand II STPS          | 1000                             | 975                      | 1042               | 733                    | 21.65              | 902                    | 21.67              | -0.02        |
|   | Rihand III STPS         | 500                              | 485                      | 520                | 308                    | 10.57              | 440                    | 10.62              | -0.06        |
|   | Dadri I STPS            | 840                              | 810                      | 825                | 617                    | 15.86              | 661                    | 16.53              | -0.66        |
|   | Dadri II STPS           | 980                              | 975                      | 947                | 695                    | 19.24              | 801                    | 20.38              | -1.14        |
|   | Unchahar I TPS          | 420                              | 407                      | 439                | 326                    | 8.82               | 367                    | 8.86               | -0.04        |
|   | Unchahar II TPS         | 420                              | 405                      | 439                | 311                    | 8.48               | 353                    | 8.46               | 0.02         |
|   | Unchahar III TPS        | 210                              | 202                      | 221                | 154                    | 4.22               | 176                    | 4.22               | 0.00         |
|   | ISTPP (Jhajjar)         | 1500                             | 980                      | 422                | 378                    | 8.88               | 370                    | 9.11               | -0.23        |
|   | Dadri GPS               | 830                              | 831                      | 371                | 352                    | 8.38               | 349                    | 8.45               | -0.07        |
|   | Anta GPS                | 419                              | 421                      | 218                | 200                    | 4.88               | 203                    | 4.93               | -0.05        |
|   | Auraiva GPS             | 663                              | 661                      | 321                | 293                    | 7.18               | 299                    | 6.91               | 0.26         |
|   | <b>Sub Total (A)</b>    | <b>10782</b>                     | <b>10037</b>             | <b>8861</b>        | <b>6869</b>            | <b>184.75</b>      | <b>7698</b>            | <b>186.47</b>      | <b>-1.72</b> |
| B. NPC                                  | NAPS                    | 440                              | 307                      | 337                | 343                    | 7.29               | 304                    | 7.37               | -0.07        |
|   | RAPS- B                 | 440                              | 426                      | 468                | 972                    | 10.26              | 427                    | 10.22              | -0.03        |
|   | RAPS- C                 | 440                              | 430                      | 473                | 477                    | 10.25              | 427                    | 10.32              | -0.07        |
|   | <b>Sub Total (B)</b>    | <b>1320</b>                      | <b>1163</b>              | <b>1278</b>        | <b>1792</b>            | <b>27.80</b>       | <b>1158</b>            | <b>27.91</b>       | <b>-0.11</b> |
| C. NHPC                                 | Chamera I HPS           | 540                              | 550                      | 540                | 0                      | 2.69               | 112                    | 2.70               | -0.01        |
|   | Chamera II HPS          | 300                              | 204                      | 0                  | 0                      | 1.68               | 70                     | 1.76               | -0.08        |
|   | Chamera III HPS         | 231                              | 154                      | 153                | 0                      | 0.82               | 34                     | 0.77               | 0.05         |
|   | Bairasuil HPS           | 180                              | 182                      | 60                 | 50                     | 0.81               | 34                     | 0.75               | 0.05         |
|   | Salal-HPS               | 690                              | 155                      | 315                | 80                     | 3.75               | 156                    | 3.77               | -0.02        |
|   | Tanakpur-HPS            | 94                               | 32                       | 50                 | 35                     | 0.78               | 32                     | 0.75               | 0.02         |
|   | Uri-HPS                 | 480                              | 316                      | 354                | 281                    | 7.12               | 297                    | 6.58               | 0.55         |
|   | Dhauliganga-HPS         | 280                              | 224                      | 209                | 0                      | 1.03               | 43                     | 1.00               | 0.03         |
|   | Dulhasti-HPS            | 390                              | 0                        | 0                  | 0                      | 0.00               | 0                      | 0.00               | 0.00         |
|   | Sewa-II HPS             | 120                              | 80                       | 84                 | 39                     | 1.74               | 73                     | 1.67               | 0.07         |
|   | <b>Sub Total (C)</b>    | <b>3305</b>                      | <b>1896</b>              | <b>1765</b>        | <b>485</b>             | <b>20.43</b>       | <b>851</b>             | <b>19.75</b>       | <b>0.67</b>  |
|   | D.NJPC                  | Natpaha Jhakri                   | 1500                     | 1350               | 1088                   | 0                  | 6.58                   | 274                | 6.10         |
| <b>Sub Total (D)</b>                    |                         | <b>1500</b>                      | <b>1350</b>              | <b>1088</b>        | <b>0</b>               | <b>6.58</b>        | <b>274</b>             | <b>6.10</b>        | <b>0.49</b>  |
| E. THDC                                 | Tehri HPS               | 1000                             | 877                      | 684                | 0                      | 5.61               | 234                    | 5.80               | -0.19        |
|   | Koteshwar HPS           | 400                              | 100                      | 101                | 99                     | 2.35               | 98                     | 2.40               | -0.05        |
|   | <b>Sub Total (E)</b>    | <b>1400</b>                      | <b>977</b>               | <b>785</b>         | <b>99</b>              | <b>7.97</b>        | <b>332</b>             | <b>8.20</b>        | <b>-0.23</b> |
| F. BBMB                                 | Bhakra HPS              | 1480                             | 561                      | 950                | 371                    | 13.72              | 572                    | 13.46              | 0.26         |
|   | Dehar HPS               | 990                              | 166                      | 495                | 0                      | 4.03               | 168                    | 3.99               | 0.04         |
|   | Pong HPS                | 396                              | 196                      | 312                | 0                      | 4.91               | 205                    | 5.01               | -0.10        |
|   | <b>Sub Total (F)</b>    | <b>2866</b>                      | <b>923</b>               | <b>1757</b>        | <b>371</b>             | <b>22.66</b>       | <b>944</b>             | <b>22.45</b>       | <b>0.21</b>  |
| G. IPP(s)/JV(s)                         | ADHPL HPS(IPP)          | 192                              | 0                        | 0                  | 0                      | 0.32               | 13                     | 0.26               | 0.06         |
|   | KWHEP HPS(IPP)          | 1000                             | 0                        | 0                  | 0                      | 3.33               | 139                    | 2.59               | 0.74         |
|   | Malana Stg-II HPS       | 100                              | 0                        | 0                  | 0                      | 0.13               | 5                      | 0.11               | 0.02         |
|   | Shree Cement TPS        | 300                              | 0                        | 264                | 250                    | 6.33               | 264                    | 6.40               | -0.07        |
|   | Budhil HPS(IPP)         | 70                               | 0                        | 0                  | 0                      | 0.00               | 0                      | 0.00               | 0.00         |
|   | <b>Sub Total (G)</b>    | <b>1662</b>                      | <b>0</b>                 | <b>264</b>         | <b>250</b>             | <b>10.10</b>       | <b>421</b>             | <b>9.36</b>        | <b>0.74</b>  |
| <b>H. Total Regional Entities (A-G)</b> | <b>22836</b>            | <b>16345</b>                     | <b>15798</b>             | <b>9866</b>        | <b>280.28</b>          | <b>11678</b>       | <b>280.24</b>          | <b>0.04</b>        |              |

| I. State Entities   | Station                         | Effective Installed Capacity (MW) | Peak MW      | Off Peak MW  | Energy(MU)    | Average(Sent out MW) |
|---|---------------------------------|-----------------------------------|--------------|--------------|---------------|----------------------|
| <b>Punjab</b>   | Guru Gobind Singh TPS (Ropar)   | 1260                              | 844          | 670          | 17.18         | 716                  |
|   | Guru Nanak Dev TPS(Bhatinda)    | 440                               | 120          | 105          | 2.39          | 100                  |
|   | Guru Hargobind Singh TPS(L.mbt) | 920                               | 731          | 555          | 14.54         | 606                  |
|   | Thermal (Total)                 | 2620                              | 1695         | 1330         | 34.11         | 1421                 |
|   | Total Hydro                     | 1148                              | 526          | 321          | 9.66          | 403                  |
|   | <b>Total Punjab</b>             | <b>3768</b>                       | <b>2221</b>  | <b>1651</b>  | <b>43.77</b>  | <b>1824</b>          |
| <b>Haryana</b>  | Panipat TPS                     | 1367                              | 669          | 619          | 15.89         | 662                  |
|   | DCRTPP (Yamuna nagar)           | 600                               | 558          | 524          | 13.07         | 544                  |
|   | Faridabad GPS (NTPC)            | 432                               | 0            | 0            | 0.00          | 0                    |
|   | RGTPP (khedar) (IPP)            | 1200                              | 0            | 0            | 0.00          | 0                    |
|   | Magnum Diesel (IPP)             | 25                                | 0            | 0            | 0.00          | 0                    |
|   | Jhajjar(CLP)                    | 1320                              | 593          | 354          | 13.21         | 550                  |
|   | Thermal (Total)                 | 4944                              | 1820         | 1497         | 42.17         | 1757                 |
|   | Total Hydro                     | 62                                | 14           | 13           | 0.35          | 15                   |
|   | <b>Total Haryana</b>            | <b>5006</b>                       | <b>1834</b>  | <b>1510</b>  | <b>42.51</b>  | <b>1771</b>          |
|   | <b>Rajasthan</b>                | kota TPS                          | 1240         | 1059         | 1040          | 26.48                |
| suratgarh TPS   |                                 | 1500                              | 961          | 953          | 23.68         | 986                  |
| Chabra TPS  |                                 | 500                               | 399          | 373          | 9.60          | 400                  |
| Dholpur GPS   |                                 | 330                               | 131          | 128          | 3.01          | 125                  |
| Ramgarh GPS   |                                 | 111                               | 42           | 143          | 1.09          | 45                   |
| RAPS A (NPC)  |                                 | 300                               | 185          | 197          | 4.86          | 203                  |
| Barsingsar (NLC)  |                                 | 250                               | 205          | 204          | 4.82          | 201                  |
| Giral LTPS  |                                 | 250                               | 0            | 0            | 0.00          | 0                    |
| Rajwest LTPS (IPP)  |                                 | 675                               | 600          | 436          | 12.04         | 502                  |
| VSLP LTPS (IPP)   |                                 | 135                               | 0            | 0            | 0.00          | 0                    |
| Thermal (Total)   |                                 | 5291                              | 3582         | 3474         | 85.58         | 3566                 |
| Total Hydro   |                                 | 550                               | 105          | 75           | 3.74          | 156                  |
| Wind power  |                                 | 2191                              | 143          | 848          | 11.50         | 479                  |
| Biomass   |                                 | 91                                | 21           | 21           | 0.50          | 21                   |
| Solar   |                                 | 201                               | 3            | 0            | 0.13          | 6                    |
| Renewable/Others (Total)  |                                 | 2483                              | 164          | 869          | 12.13         | 506                  |
| <b>Total Rajasthan</b>  |                                 | <b>8324</b>                       | <b>3851</b>  | <b>4418</b>  | <b>101.46</b> | <b>4227</b>          |
| <b>UP</b>   | Anpara TPS                      | 1630                              | 1359         | 1366         | 29.20         | 1217                 |
|   | Obra TPS                        | 1382                              | 541          | 566          | 12.00         | 500                  |
|   | Paricha TPS                     | 890                               | 718          | 673          | 14.80         | 617                  |
|   | Panki TPS                       | 210                               | 0            | 65           | 0.90          | 38                   |
|   | Harduaganj TPS                  | 665                               | 203          | 215          | 4.40          | 183                  |
|   | Tanda TPS (NTPC)                | 440                               | 404          | 405          | 9.83          | 410                  |
|   | Roza TPS (IPP)                  | 1200                              | 698          | 702          | 18.49         | 770                  |
|   | Anpara-C (IPP)                  | 1200                              | 457          | 453          | 10.85         | 452                  |
|   | Bajaj Energy Pvt.Ltd(IPP) TPS   | 450                               | 344          | 400          | 9.03          | 376                  |
|   | Thermal (Total)                 | 8067                              | 4724         | 4845         | 109.50        | 4562                 |
|   | Vishnuparyag HPS (IPP)          | 400                               | 69           | 69           | 1.68          | 70                   |
|   | Other Hydro                     | 527                               | 142          | 107          | 4.18          | 174                  |
|   | Cogeneration                    | 981                               | 800          | 800          | 19.20         | 800                  |
|   | <b>Total UP</b>                 | <b>9975</b>                       | <b>5735</b>  | <b>5821</b>  | <b>134.56</b> | <b>5537</b>          |
| <b>Uttarakhand</b>  | Total Hydro                     | 1303                              | 486          | 361          | 10.72         | 447                  |
|   | <b>Total Uttarakhand</b>        | <b>1303</b>                       | <b>486</b>   | <b>361</b>   | <b>10.72</b>  | <b>447</b>           |
| <b>Delhi</b>  | Rajghat TPS                     | 135                               | 112          | 110          | 2.76          | 115                  |
|   | Delhi Gas Turbine               | 282                               | 87           | 127          | 2.61          | 109                  |
|   | Pragati Gas Turbine             | 330                               | 305          | 265          | 7.44          | 310                  |
|   | Rithala GPS                     | 108                               | 0            | 0            | 0.00          | 0                    |
|   | Bawana GPS                      | 677                               | 110          | 210          | 5.10          | 213                  |
|   | Badarpur TPS (NTPC)             | 705                               | 435          | 405          | 8.96          | 373                  |
|   | Thermal (Total)                 | 2237                              | 1049         | 1117         | 26.88         | 1120                 |
|   | <b>Total Delhi</b>              | <b>2237</b>                       | <b>1049</b>  | <b>1117</b>  | <b>26.88</b>  | <b>1120</b>          |
| <b>HP</b>   | Baspa HPS (IPP)                 | 330                               | 50           | 30           | 1.18          | 49                   |
|   | Malana HPS (IPP)                | 86                                | 33           | 0            | 0.20          | 8                    |
|   | Other Hydro                     | 589                               | 225          | 155          | 4.56          | 190                  |
|   | <b>Total HP</b>                 | <b>1005</b>                       | <b>308</b>   | <b>185</b>   | <b>5.94</b>   | <b>248</b>           |
| <b>J &amp; K</b>  | Baglihar HPS (IPP)              | 450                               | 150          | 148          | 3.58          | 149                  |
|   | Other Hydro                     | 323                               | 95           | 130          | 3.40          | 142                  |
|   | Gas/Diesel/Others               | 183                               | 0            | 0            | 0.00          | 0                    |
|   | <b>Total J &amp; K</b>          | <b>956</b>                        | <b>245</b>   | <b>278</b>   | <b>6.98</b>   | <b>291</b>           |
| <b>Total State Control Area Generation</b>                        |                                 | <b>32574</b>                      | <b>15729</b> | <b>15341</b> | <b>372.82</b> | <b>15464</b>         |
| <b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b> |                                 |                                   | <b>3008</b>  | <b>911</b>   | <b>61.80</b>  | <b>2575</b>          |
| <b>Total Regional Availability(Gross)</b>                         |                                 | <b>55410</b>                      | <b>34535</b> | <b>26118</b> | <b>714.90</b> | <b>29718</b>         |

#### IV. Total Hydro Generation:

|                             |              |             |             |               |             |
|-----------------------------|--------------|-------------|-------------|---------------|-------------|
| Regional Entities Hydro     | 10364        | 5395        | 955         | 61.40         | 2559        |
| State Control Area Hydro    | 5368         | 1826        | 1340        | 43.25         | 1732        |
| <b>Total Regional Hydro</b> | <b>15731</b> | <b>7221</b> | <b>2295</b> | <b>104.65</b> | <b>4291</b> |

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

| Element                   | Peak(19:00 Hrs) | Off Peak(03:00 Hrs) | Maximum Interchange (MW) |        | Energy (MU)  |              | Net Energy MU |
|---------------------------|-----------------|---------------------|--------------------------|--------|--------------|--------------|---------------|
|                           | MW              | MW                  | Import                   | Export | Import       | Export       |               |
| Vindhychal B/B            | 200             | -150                | 200                      | 250    | 1.48         | 1.85         | -0.37         |
| Gwalior-Agra (D/C)        | 412             | 21                  | 704                      | 0      | 9.55         | 0.00         | 9.55          |
| Zerda-Kankroli            | 33              | -324                | 133                      | 352    | 0.00         | 1.87         | -1.87         |
| Zerda-Bhinmal             | 92              | -276                | 235                      | 335    | 0.00         | 0.08         | -0.08         |
| Malanpur-Auraiya          | -131            | -165                | 0                        | 173    | 0.00         | 2.67         | -2.67         |
| Badod-Kota/Morak          | 25              | -113                | 53                       | 272    | 0.00         | 2.39         | -2.39         |
| Mundra-Mohindergarh(HVDC) | 1266            | 1267                | 1268                     | 0      | 30.48        | 0.00         | 30.48         |
| <b>Sub Total WR</b>       | <b>1897</b>     | <b>260</b>          |                          |        | <b>41.51</b> | <b>8.86</b>  | <b>32.64</b>  |
| Pusauli Bypass            | 50              | 50                  | 200                      | 0      | 1.89         | 0.00         | 1.89          |
| MZP- GKP (D/C)            | 166             | 68                  | 390                      | 0      | 5.12         | 0.00         | 5.12          |
| Patna-Balia(D/C)          | 636             | 416                 | 716                      | 0      | 14.06        | 0.00         | 14.06         |
| B'Sharif-Balia (D/C)      | 226             | 76                  | 270                      | 0      | 4.72         | 0.00         | 4.72          |
| Barh - Balia(D/C)         | 0               | 0                   | 0                        | 0      | 0.00         | 0.00         | 0.00          |
| Pusauli-Balia             | -21             | -61                 | 0                        | 82     | 0.00         | 0.83         | -0.83         |
| Gaya-Fatehpur (765 Kv)    | -80             | -20                 | 4                        | 281    | 2.33         | 0.00         | 2.33          |
| Pusauli-Sahupuri          | 134             | 122                 | 142                      | 0      | 2.80         | 0.00         | 2.80          |
| K'nasa-Sahupuri           | 0               | 0                   | 0                        | 0      | 0.00         | 0.00         | 0.00          |
| Son Ngr-Rihand            | 0               | 0                   | 0                        | 0      | 0.00         | 0.93         | -0.93         |
| Garhwa-Rihand             | 0               | 0                   | 0                        | 0      | 0.00         | 0.00         | 0.00          |
| <b>Sub Total ER</b>       | <b>1111</b>     | <b>651</b>          |                          |        | <b>30.92</b> | <b>1.76</b>  | <b>29.16</b>  |
| <b>Total IR Exch</b>      | <b>3008</b>     | <b>911</b>          |                          |        | <b>72.42</b> | <b>10.62</b> | <b>61.80</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 |
| 34.20                         | 0.12                    | 34.32 | -1.64                       | 6.56       | -0.40                    | 1.19                  | 4.22          | -4.22      |
| <b>Total IR Schedule (MU)</b> |                         |       | <b>Total IR Actual (MU)</b> |            |                          | <b>Net IR UI (MU)</b> |               |            |
| Through ER                    | Through WR Inclds Mndra | Total | Through ER                  | Through WR | Total                    | Through ER            | Through WR    | Total      |
| 36.50                         | 49.11                   | 85.60 | 29.16                       | 32.64      | 61.80                    | -7.34                 | -16.46        | -23.81     |

**VI. Frequency Profile <----- % of Time Frequency ----->**

| <48.80 | <49.0 | <49.20 | <49.50 | <49.7 | 49.5 - 50.2 | 49.7 - 50.2 | > 50.00 | > 50.2 |
|--------|-------|--------|--------|-------|-------------|-------------|---------|--------|
| 0.00   | 0.00  | 0.00   | 0.30   | 1.30  | 82.10       | 81.10       | 63.10   | 17.60  |

| Frequency (Hz) |       |         |       | Average Frequency Hz | Frequency Variation Index | Std. Dev. | Frequency in 15 Min Block |          |
|----------------|-------|---------|-------|----------------------|---------------------------|-----------|---------------------------|----------|
| Maximum        |       | Minimum |       |                      |                           |           | MAX (Hz)                  | MIN (Hz) |
| Freq           | Time  | Freq    | Time  |                      |                           |           |                           |          |
| 50.46          | 13.01 | 49.41   | 18.26 | 50.06                | 0.27                      | 0.16      | 50.45                     | 49.80    |

**VII. Voltage profile**

| 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                | 413         | 4:02 | 415          | 6:00  | 18.7                   | 18.7    | 0.0     | 0.0     |
| Gorakhpur   | 400                | 431         | 4:06 | 414          | 6:23  | 0.0                    | 0.0     | 53.4    | 4.3     |
| Bareilly    | 400                | 428         | 4:06 | 400          | 6:48  | 0.0                    | 0.0     | 40.5    | 0.0     |
| Kanpur      | 400                | 425         | 4:04 | 397          | 6:18  | 0.0                    | 0.0     | 9.7     | 0.0     |
| Dadri       | 400                | 425         | 4:05 | 401          | 11:12 | 0.0                    | 0.0     | 19.1    | 0.0     |
| Ballabhgarh | 400                | 432         | 4:04 | 402          | 6:51  | 0.0                    | 0.0     | 24.3    | 1.0     |
| Bawana      | 400                | 428         | 4:01 | 405          | 6:11  | 0.0                    | 0.0     | 23.6    | 0.0     |
| Bassi       | 400                | 432         | 4:02 | 395          | 8:36  | 0.0                    | 0.0     | 17.8    | 4.6     |
| Hissar      | 400                | 419         | 4:05 | 391          | 6:11  | 0.0                    | 0.0     | 0.0     | 0.0     |
| Moga        | 400                | 419         | 4:02 | 396          | 6:10  | 0.0                    | 0.0     | 0.0     | 0.0     |
| Abdullapur  | 400                | 427         | 0:00 | 290          | 20:14 | 0.1                    | 0.1     | 19.7    | 0.0     |
| Nalagarh    | 400                | 426         | 4:08 | 402          | 6:10  | 0.0                    | 0.0     | 27.9    | 0.0     |
| Kishenpur   | 400                | 417         | 4:02 | 395          | 7:12  | 0.0                    | 0.0     | 0.0     | 0.0     |
| Wagoora     | 400                | 400         | 3:17 | 376          | 19:48 | 10.1                   | 68.6    | 0.0     | 0.0     |

**VIII. 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 (m³/s) | Usage (m³/s) |
| Bhakra            | 513.59     | 445.62   | 487.12             | 644.48      | 492.98    | 827.99      | 195.58        | 372.28       |
| Pong              | 426.72     | 384.05   | 405.61             | 361.18      | 410.25    | 504.32      | 98.20         | 335.43       |
| Tehri             | 829.79     | 740.04   | 792.60             | 498.30      | 818.65    | 982.26      | 38.60         | 148.00       |
| Koteswar          | 612.50     | 598.50   | 610.10             | 4.44        | NA        | NA          | 143.00        | 156.00       |
| Chamera-I         | 760.00     | 748.75   | NA                 | NA          | NA        | NA          | 61.53         | 72.96        |
| Rihand            | 268.22     | 252.98   | 259.75             | 500.10      | 262.28    | 617.70      | 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   | 510.50             | NA          | 500.86    | NA          | 52.39         | 157.50       |

\* NA: Not Available

**IX. System Constraints:**

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

**XI. Weather Conditions For 11.02.2013 :**

1.Clear Weather in NR.

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

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

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

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

Report for : 11.02.2013

पारी प्रभाती अशियंता / SHIFT CHARGE ENGINEER