

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.09.2012  
Date of Reporting : 12.09.2012

### 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 |
| 36342                       | 3185     | 39526       | 49.94      | 34558                   | 2663     | 37221       | 49.98      | 843.1               | 63.87    |

\* 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) | UI [OD:(+ve), UD: (-ve)] |                     |
|--------------|--|--------------|---------------------|---------------|-----------------------------|---------------------------|----------------|--------------------------|---------------------|
|              | Thermal                                  | Hydro        | Renewable/others \$ | Total         |                             |                           |                | Consumption<br>(Net MU)  | Shortages *<br>(MU) |
| Punjab       | 50.55                                    | 14.96        |                     | 65.51         | 108.77                      | 108.53                    | -0.24          | 174.05                   | 1.80                |
| Haryana      | 65.58                                    | 0.77         |                     | 66.35         | 58.58                       | 58.71                     | 0.13           | 125.06                   | 11.90               |
| Rajasthan    | 67.13                                    | 2.49         | 4.44                | 74.06         | 53.28                       | 53.25                     | -0.03          | 127.31                   | 0.90                |
| Delhi        | 24.48                                    |              |                     | 24.48         | 74.61                       | 72.32                     | -2.29          | 96.80                    | 0.13                |
| UP           | 92.92                                    | 15.96        | 0.48                | 109.36        | 119.43                      | 119.62                    | 0.18           | 228.98                   | 44.81               |
| Uttarakhand  |  | 18.74        |                     | 18.74         | 11.29                       | 11.02                     | -0.27          | 29.76                    | 2.53                |
| HP           |  | 24.37        |                     | 24.37         | 0.98                        | -0.16                     | -1.14          | 24.21                    | 0.10                |
| J & K        |  | 15.21        | 0.00                | 15.21         | 19.15                       | 16.10                     | -3.05          | 31.31                    | 1.70                |
| Chandigarh   |  |              |                     | 0.00          | 5.82                        | 5.57                      | -0.25          | 5.57                     | 0.00                |
| <b>Total</b> | <b>300.67</b>                            | <b>92.50</b> | <b>4.92</b>         | <b>398.09</b> | <b>451.91</b>               | <b>444.96</b>             | <b>-6.95</b>   | <b>843.05</b>            | <b>63.87</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 |             |             |                     | Day Energy MU |
|--------------|-----------------------------|-------------|-------------|---------------------|-------------------------|-------------|-------------|---------------------|---------------|
|              | Demand Met                  | Shortage    | UI          | STOA/PX transaction | Demand Met              | Shortage    | UI          | STOA/PX transaction |               |
| Punjab       | 7404                        | 600         | -56         | 1460                | 6962                    | 0           | -128        | 2063                | 46.95         |
| Haryana      | 5419                        | 1055        | -46         | 428                 | 5022                    | 1006        | 42          | 516                 | 11.96         |
| Rajasthan    | 5703                        | 0           | -49         | 437                 | 4922                    | 227         | 232         | 154                 | 3.63          |
| Delhi        | 4424                        | 0           | -84         | 514                 | 3612                    | 0           | -160        | 281                 | 9.45          |
| UP           | 8948                        | 1360        | -446        | 604                 | 10726                   | 1430        | 109         | 923                 | 22.06         |
| Uttarakhand  | 1408                        | 70          | 4           | -38                 | 1246                    | 0           | -25         | -97                 | -2.02         |
| HP           | 1132                        | 0           | -31         | -1047               | 881                     | 0           | -112        | -1002               | -25.14        |
| J&K          | 1642                        | 100         | 12          | -224                | 983                     | 0           | -276        | -368                | -7.15         |
| Chandigarh   | 263                         | 0           | -14         | -5                  | 205                     | 0           | 12          | 0                   | 0.36          |
| <b>Total</b> | <b>36342</b>                | <b>3185</b> | <b>-710</b> | <b>2128</b>         | <b>34558</b>            | <b>2663</b> | <b>-306</b> | <b>2469</b>         | <b>60.10</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) | UI [OG:(+ve), UG: (-ve)] |               |              |
|---|-------------------------|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------------|---------------|--------------|
|   |                         |                                  |                          |                    |                        |                    |                        | Schedule<br>Net MU       | UI<br>Net MU  |              |
| A. NTPC                                 | Singrauli STPS          | 2000                             | 1417                     | 1559               | 1538                   | 34.22              | 1426                   | 33.93                    | 0.28          |              |
|   | Rihand I STPS           | 1000                             | 834                      | 1041               | 997                    | 20.02              | 834                    | 19.96                    | 0.05          |              |
|   | Rihand II STPS          | 1000                             | 965                      | 1040               | 1001                   | 23.11              | 963                    | 23.13                    | -0.02         |              |
|   | Rihand III STPS         | 500                              |                          | 0                  | 0                      | 0.00               | 0                      |                          | 0.00          |              |
|   | Dadri I STPS            | 840                              | 595                      | 640                | 456                    | 12.41              | 517                    | 12.17                    | 0.24          |              |
|   | Dadri II STPS           | 980                              | 970                      | 998                | 770                    | 20.61              | 859                    | 21.00                    | -0.39         |              |
|   | Unchahar I TPS          | 420                              | 197                      | 20                 | 201                    | 4.58               | 191                    | 4.64                     | -0.06         |              |
|   | Unchahar II TPS         | 420                              | 400                      | 239                | 419                    | 9.26               | 386                    | 9.26                     | 0.00          |              |
|   | Unchahar III TPS        | 210                              | 199                      | 216                | 177                    | 4.56               | 190                    | 4.57                     | -0.01         |              |
|   | ISTPP (Jhajihar)        | 1000                             | 881                      | 456                | 412                    | 11.17              | 465                    | 12.61                    | -1.44         |              |
|   | Dadri GPS               | 830                              | 782                      | 571                | 387                    | 9.90               | 413                    | 10.78                    | -0.88         |              |
|   | Anta GPS                | 419                              | 393                      | 260                | 191                    | 5.22               | 218                    | 5.35                     | -0.13         |              |
|   | Auraiya GPS             | 663                              | 624                      | 306                | 310                    | 7.13               | 297                    | 7.93                     | -0.80         |              |
|   | <b>Sub Total (A)</b>    |                                  | <b>10282</b>             | <b>8257</b>        | <b>7346</b>            | <b>6859</b>        | <b>162.19</b>          | <b>6758</b>              | <b>165.33</b> | <b>-3.15</b> |
|   | B. NPC                  | NAPS                             | 440                      | 259                | 298                    | 287                | 6.21                   | 259                      | 6.22          | -0.01        |
|   |                         | RAPS- B                          | 440                      | 397                | 444                    | 449                | 9.68                   | 403                      | 9.53          | 0.15         |
| RAPS- C                                 |                         | 440                              | 410                      | 261                | 265                    | 9.85               | 411                    | 9.84                     | 0.01          |              |
| <b>Sub Total (B)</b>                    |                         |                                  | <b>1320</b>              | <b>1066</b>        | <b>1003</b>            | <b>25.73</b>       | <b>1072</b>            | <b>25.58</b>             | <b>0.15</b>   |              |
| C. NHPC                                 | Chamera I HPS           | 540                              | 534                      | 540                | 540                    | 12.81              | 534                    | 12.81                    | 0.00          |              |
|   | Chamera II HPS          | 300                              | 300                      | 301                | 302                    | 7.19               | 300                    | 7.21                     | -0.02         |              |
|   | Chamera III HPS         | 231                              | 227                      | 233                | 233                    | 5.48               | 228                    | 5.45                     | 0.03          |              |
|   | Bairasuil HPS           | 180                              | 120                      | 120                | 120                    | 2.80               | 117                    | 2.66                     | 0.14          |              |
|   | Salal-HPS               | 690                              | 665                      | 664                | 634                    | 15.91              | 663                    | 15.96                    | -0.05         |              |
|   | Tanakpur-HPS            | 94                               | 87                       | 93                 | 60                     | 2.19               | 91                     | 2.24                     | -0.05         |              |
|   | Uri-HPS                 | 480                              | 457                      | 479                | 474                    | 11.25              | 469                    | 11.34                    | -0.09         |              |
|   | Dhauliganga-HPS         | 280                              | 277                      | 279                | 277                    | 6.73               | 281                    | 6.71                     | 0.02          |              |
|   | Dulhasti-HPS            | 390                              | 387                      | 106                | 408                    | 9.26               | 386                    | 9.31                     | -0.05         |              |
|   | Sewa-II HPS             | 120                              | 80                       | 85                 | 42                     | 1.76               | 73                     | 1.77                     | -0.01         |              |
|   | <b>Sub Total (C)</b>    |                                  | <b>3305</b>              | <b>3134</b>        | <b>2900</b>            | <b>3090</b>        | <b>75.37</b>           | <b>3141</b>              | <b>75.46</b>  | <b>-0.08</b> |
| D.NJPC                                  | Nathpa Jhakri           | 1500                             | 1605                     | 1517               | 1518                   | 36.32              | 1513                   | 36.00                    | 0.32          |              |
|   | <b>Sub Total (D)</b>    |                                  | <b>1500</b>              | <b>1605</b>        | <b>1517</b>            | <b>1518</b>        | <b>36.32</b>           | <b>1513</b>              | <b>36.00</b>  |              |
| E. THDC                                 | Tehri HPS               | 1000                             | 1050                     | 1057               | 693                    | 19.25              | 802                    | 19.00                    | 0.25          |              |
|   | Koteshwar HPS           | 400                              | 323                      | 303                | 301                    | 7.72               | 322                    | 7.74                     | -0.02         |              |
| <b>Sub Total (E)</b>                    |                         | <b>1400</b>                      | <b>1373</b>              | <b>1360</b>        | <b>994</b>             | <b>26.97</b>       | <b>1124</b>            | <b>26.74</b>             | <b>0.23</b>   |              |
| F. BBMB                                 | Bhakra HPS              | 1480                             | 770                      | 1232               | 545                    | 19.11              | 796                    | 18.49                    | 0.62          |              |
|   | Dehar HPS               | 990                              | 617                      | 660                | 600                    | 14.97              | 624                    | 14.80                    | 0.17          |              |
|   | Pong HPS                | 396                              | 228                      | 366                | 186                    | 5.67               | 236                    | 5.01                     | 0.66          |              |
|   | <b>Sub Total (F)</b>    |                                  | <b>2866</b>              | <b>1615</b>        | <b>2258</b>            | <b>1331</b>        | <b>39.75</b>           | <b>1656</b>              | <b>38.30</b>  | <b>1.46</b>  |
| G. IPP(s)/JV(s)                         | ADHPL HPS(IPP)          | 192                              | 0                        | 193                | 106                    | 3.15               | 131                    | 3.02                     | 0.13          |              |
|   | KWHEP HPS(IPP)          | 1000                             | 0                        | 972                | 1012                   | 22.36              | 932                    | 21.71                    | 0.65          |              |
|   | Malana Stg-II HPS       | 100                              | 0                        | 102                | 96                     | 2.15               | 90                     | 1.74                     | 0.41          |              |
|   | Shree Cement TPS        | 300                              | 0                        | 110                | 87                     | 1.99               | 83                     | 1.93                     | 0.06          |              |
|   | Budhil HPS(IPP)         | 70                               | 0                        | 35                 | 72                     | 0.63               | 26                     | 0.17                     | 0.46          |              |
|   | <b>Sub Total (G)</b>    |                                  | <b>1662</b>              | <b>0</b>           | <b>1412</b>            | <b>1373</b>        | <b>30.28</b>           | <b>1262</b>              | <b>28.57</b>  | <b>1.71</b>  |
| <b>H. Total Regional Entities (A-G)</b> |                         | <b>22336</b>                     | <b>17049</b>             | <b>17796</b>       | <b>16166</b>           | <b>396.62</b>      | <b>16526</b>           | <b>395.98</b>            | <b>0.63</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                              | 1251         | 1248         | 27.47         | 1145                 |      |
|   | Guru Nanak Dev TPS(Bhatinda)    | 440                               | 145          | 95           | 2.32          | 97                   |      |
|   | Guru Hargobind Singh TPS(L.mbt) | 920                               | 932          | 949          | 20.77         | 865                  |      |
|   | Thermal (Total)                 | 2620                              | 2328         | 2292         | 50.55         | 2106                 |      |
|   | Total Hydro                     | 1148                              | 814          | 369          | 14.96         | 623                  |      |
|   | <b>Total Punjab</b>             | <b>3768</b>                       | <b>3142</b>  | <b>2661</b>  | <b>65.51</b>  | <b>2730</b>          |      |
| Haryana   | Panipat TPS                     | 1367                              | 1095         | 1080         | 26.38         | 1099                 |      |
|   | DCRTPP (Yamuna nagar)           | 600                               | 0            | 0            | 0.00          | 0                    |      |
|   | Faridabad GPS (NTPC)            | 432                               | 394          | 396          | 9.99          | 416                  |      |
|   | RGTPP (khedar) (IPP)            | 1200                              | 779          | 791          | 19.19         | 800                  |      |
|   | Magnum Diesel (IPP)             | 25                                | 0            | 0            | 0.00          | 0                    |      |
|   | Jhajjar(CLP)                    | 1320                              | 524          | 432          | 10.02         | 417                  |      |
|   | Thermal (Total)                 | 4944                              | 2792         | 2699         | 65.58         | 2732                 |      |
|   | Total Hydro                     | 62                                | 32           | 30           | 0.77          | 32                   |      |
|   | <b>Total Haryana</b>            | <b>5006</b>                       | <b>2824</b>  | <b>2729</b>  | <b>66.35</b>  | <b>2765</b>          |      |
|   | Rajasthan                       | kota TPS                          | 1240         | 684          | 677           | 16.20                | 675  |
|   |                                 | suratgarh TPS                     | 1500         | 1100         | 833           | 23.97                | 999  |
| Chabra TPS  |                                 | 500                               | 422          | 382          | 9.63          | 401                  |      |
| Dholpur GPS   |                                 | 330                               | 140          | 135          | 3.56          | 149                  |      |
| Ramgarh GPS   |                                 | 111                               | 41           | 41           | 1.04          | 43                   |      |
| RAPS A (NPC)  |                                 | 300                               | 179          | 186          | 4.17          | 174                  |      |
| Barsingsar (NLC)  |                                 | 250                               | 0            | 0            | 0.00          | 0                    |      |
| Giral LTPS  |                                 | 250                               | 0            | 0            | 0.00          | 0                    |      |
| Rajwest LTPS (IPP)  |                                 | 540                               | 437          | 351          | 8.55          | 356                  |      |
| VSLP LTPS (IPP)   |                                 | 135                               | 0            | 0            | 0.00          | 0                    |      |
| Thermal (Total)   |                                 | 5156                              | 3003         | 2605         | 67.13         | 2797                 |      |
| Total Hydro   |                                 | 550                               | 128          | 116          | 2.49          | 104                  |      |
| Wind power  |                                 | 1843                              | 0            | 46           | 1.25          | 52                   |      |
| Biomass   |                                 | 91                                | 23           | 23           | 0.56          | 23                   |      |
| Solar   |                                 | 128                               | 0            | 0            | 0.15          | 6                    |      |
| Renewable/Others (Total)  |                                 | 2062                              | 23           | 69           | 4.44          | 185                  |      |
| <b>Total Rajasthan</b>  |                                 | <b>7767</b>                       | <b>3154</b>  | <b>2790</b>  | <b>74.06</b>  | <b>3086</b>          |      |
| UP  |                                 | Anpara TPS                        | 1630         | 1143         | 1131          | 24.30                | 1013 |
|   | Obra TPS                        | 1382                              | 362          | 488          | 8.80          | 367                  |      |
|   | Paricha TPS                     | 890                               | 424          | 422          | 9.00          | 375                  |      |
|   | Panki TPS                       | 210                               | 110          | 35           | 2.20          | 92                   |      |
|   | Harduaganj TPS                  | 665                               | 291          | 119          | 4.70          | 196                  |      |
|   | Tanda TPS (NTPC)                | 440                               | 288          | 289          | 6.94          | 289                  |      |
|   | Roza TPS (IPP)                  | 1200                              | 815          | 812          | 19.18         | 799                  |      |
|   | Anpara-C (IPP)                  | 1200                              | 470          | 473          | 11.25         | 469                  |      |
|   | Bajaj Energy Pvt.Ltd(IPP) TPS   | 450                               | 243          | 284          | 6.55          | 273                  |      |
|   | Thermal (Total)                 | 8067                              | 4146         | 4053         | 92.92         | 3872                 |      |
|   | Vishnuparyag HPS (IPP)          | 400                               | 436          | 436          | 10.46         | 436                  |      |
|   | Other Hydro                     | 527                               | 238          | 0            | 5.50          | 229                  |      |
|   | Cogeneration                    | 981                               | 20           | 20           | 0.48          | 20                   |      |
|   | <b>Total UP</b>                 | <b>9975</b>                       | <b>4840</b>  | <b>4509</b>  | <b>109.36</b> | <b>4121</b>          |      |
| Uttarakhand   | Total Hydro                     | 1303                              | 812          | 899          | 18.74         | 781                  |      |
|   | <b>Total Uttarakhand</b>        | <b>1303</b>                       | <b>812</b>   | <b>899</b>   | <b>18.74</b>  | <b>781</b>           |      |
| Delhi   | Raighat TPS                     | 135                               | 46           | 73           | 1.38          | 57                   |      |
|   | Delhi Gas Turbine               | 282                               | 186          | 188          | 4.52          | 188                  |      |
|   | Pragati Gas Turbine             | 330                               | 293          | 276          | 6.92          | 288                  |      |
|   | Rithala GPS                     | 108                               | 36           | 14           | 0.53          | 22                   |      |
|   | Bawana GPS                      | 677                               | 0            | 0            | 0.00          | 0                    |      |
|   | Badarpur TPS (NTPC)             | 705                               | 500          | 485          | 11.13         | 464                  |      |
|   | Thermal (Total)                 | 2237                              | 1061         | 1036         | 24.48         | 1020                 |      |
|   | <b>Total Delhi</b>              | <b>2237</b>                       | <b>1061</b>  | <b>1036</b>  | <b>24.48</b>  | <b>1020</b>          |      |
| HP  | Baspa HPS (IPP)                 | 330                               | 336          | 305          | 7.35          | 306                  |      |
|   | Malana HPS (IPP)                | 86                                | 96           | 83           | 2.03          | 85                   |      |
|   | Other Hydro                     | 589                               | 633          | 642          | 14.99         | 625                  |      |
|   | <b>Total HP</b>                 | <b>1005</b>                       | <b>1065</b>  | <b>1030</b>  | <b>24</b>     | <b>1015</b>          |      |
| J & K   | Baglihar HPS (IPP)              | 450                               | 434          | 436          | 10.48         | 437                  |      |
|   | Other Hydro                     | 323                               | 185          | 210          | 4.73          | 197                  |      |
|   | Gas/Diesel/Others               | 183                               | 0            | 0            | 0.00          | 0                    |      |
|   | <b>Total J &amp; K</b>          | <b>956</b>                        | <b>619</b>   | <b>646</b>   | <b>15.21</b>  | <b>634</b>           |      |
| <b>Total State Control Area Generation</b>                        |                                 | <b>32017</b>                      | <b>17517</b> | <b>16300</b> | <b>398.09</b> | <b>16151</b>         |      |
| <b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b> |                                 |                                   | <b>1664</b>  | <b>3145</b>  | <b>66.91</b>  | <b>2788</b>          |      |
| <b>Total Regional Availability(Gross)</b>                         |                                 | <b>54353</b>                      | <b>36977</b> | <b>35611</b> | <b>861.62</b> | <b>35465</b>         |      |

#### IV. Total Hydro Generation:

|                             |              |              |              |               |              |
|-----------------------------|--------------|--------------|--------------|---------------|--------------|
| Regional Entities Hydro     | 10364        | 9302         | 8147         | 206.07        | 8586         |
| State Control Area Hydro    | 5368         | 3708         | 3090         | 92.50         | 3418         |
| <b>Total Regional Hydro</b> | <b>15731</b> | <b>13010</b> | <b>11237</b> | <b>298.57</b> | <b>12005</b> |

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

| Element                   | Peak(20:00 Hrs)<br>MW | Off Peak(03:00 Hrs)<br>MW | Maximum Interchange (MW) |        | Energy (MU)  |             | Net Energy<br>MU |
|---------------------------|-----------------------|---------------------------|--------------------------|--------|--------------|-------------|------------------|
|                           |                       |                           | Import                   | Export | Import       | Export      |                  |
| Vindhychal B/B            | 100                   | 300                       | 500                      | 0      | 6.57         | 0.00        | 6.57             |
| Gwalior-Agra (D/C)        | 96                    | 436                       | 841                      | 0      | 11.33        | 0.00        | 11.33            |
| Zerda-Kankroli            | -65                   | 20                        | 90                       | 144    | 0.00         | 0.46        | -0.46            |
| Zerda-Bhinmal             | -42                   | 73                        | 184                      | 139    | 0.54         | 0.00        | 0.54             |
| Malanpur-Auraiya          | -86                   | -20                       | 0                        | 164    | 0.00         | 0.86        | -0.86            |
| Badod-Kota/Morak          | -26                   | 27                        | 140                      | 58     | 0.77         | 0.00        | 0.77             |
| Mundra-Mohindergarh(HVDC) | 279                   | 344                       | 357                      | 0      | 7.32         | 0.00        | 7.32             |
| <b>Sub Total WR</b>       | <b>256</b>            | <b>1180</b>               |                          |        | <b>26.53</b> | <b>1.31</b> | <b>25.22</b>     |
| Pusauli Bypass            | 300                   | 200                       | 300                      | 0      | 5.96         | 0.00        | 5.96             |
| MZP- GKP (D/C)            | 510                   | 724                       | 782                      | 0      | 15.24        | 0.00        | 15.24            |
| Patna-Balia(D/C)          | 295                   | 260                       | 392                      | 0      | 6.91         | 0.00        | 6.91             |
| B'Sharif-Balia (D/C)      | 179                   | 340                       | 379                      | 0      | 6.73         | 0.00        | 6.73             |
| Barh - Balia(D/C)         | 0                     | 258                       | 266                      | 0      | 2.81         | 0.00        | 2.81             |
| Pusauli-Balia             | -109                  | -22                       | -121                     | 0      | 0.00         | 1.02        | -1.02            |
| Gaya-Fatehpur (765 Kv)    | 121                   | 56                        | 204                      | 22     | 2.26         | 0.00        | 2.26             |
| Pusauli-Sahupuri          | 157                   | 174                       | 179                      | 0      | 3.60         | 0.00        | 3.60             |
| K'nasa-Sahupuri           | 0                     | 0                         | 0                        | 0      | 0.00         | 0.00        | 0.00             |
| Son Ngr-Rihand            | -45                   | -25                       | 0                        | 48     | 0.00         | 0.79        | -0.79            |
| Garhwa-Rihand             | 0                     | 0                         | 0                        | 0      | 0.00         | 0.00        | 0.00             |
| <b>Sub Total ER</b>       | <b>1408</b>           | <b>1965</b>               |                          |        | <b>43.50</b> | <b>1.82</b> | <b>41.69</b>     |
| <b>Total IR Exch</b>      | <b>1664</b>           | <b>3145</b>               |                          |        | <b>70.04</b> | <b>3.13</b> | <b>66.91</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 |
| 29.66 | 2.94                  | 32.60 | 16.67                   | 14.26      | -0.51                    | 0.55       | 5.97          | -5.90      |

| Total IR Schedule (MU) |                        |       | Total IR Actual (MU) |            |       | Net IR UI (MU) |            |       |
|------------------------|------------------------|-------|----------------------|------------|-------|----------------|------------|-------|
| Through ER             | Through WR Incld Mndra | Total | Through ER           | Through WR | Total | Through ER     | Through WR | Total |
| 54.72                  | 14.86                  | 69.58 | 41.69                | 25.22      | 66.91 | -13.03         | 10.36      | -2.67 |

**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  | 0.10   | 0.80   | 6.10  | 92.20       | 86.90       | 44.20   | 7.00   |

| <----- Frequency (Hz) -----> |       |         |      | Average<br>Frequency<br>Hz | Frequency<br>Variation<br>Index | Std. Dev. | Frequency in 15 Min Block |             |
|------------------------------|-------|---------|------|----------------------------|---------------------------------|-----------|---------------------------|-------------|
| Maximum                      |       | Minimum |      |                            |                                 |           | MAX<br>(Hz)               | MIN<br>(Hz) |
| Freq                         | Time  | Freq    | Time |                            |                                 |           |                           |             |
| 50.38                        | 18.32 | 49.19   | 0.08 | 49.96                      | 0.28                            | 0.16      | 50.33                     | 49.72       |

**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         | 08:06 | 402          | 00:40 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Gorakhpur  | 400                | 431         | 04:30 | 409          | 22:16 | 0.0                    | 0.0     | 44.1    | 2.3     |
| Bareilly   | 400                | 420         | 08:06 | 399          | 00:08 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Kanpur     | 400                | 423         | 04:03 | 404          | 23:04 | 0.0                    | 0.0     | 1.3     | 0.0     |
| Dadri      | 400                | 412         | 08:04 | 398          | 10:30 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Ballabgarh | 400                | 419         | 04:05 | 403          | 10:42 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Bawana     | 400                | 414         | 08:02 | 400          | 10:30 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Bassi      | 400                | 435         | 00:49 | 412          | 19:24 | 0.0                    | 0.0     | 65.0    | 12.7    |
| Hissar     | 400                | 407         | 18:01 | 396          | 14:28 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Moga       | 400                | 409         | 03:04 | 395          | 10:42 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Abdullapur | 400                | 410         | 04:07 | 397          | 10:39 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Nalagarh   | 400                | 412         | 04:04 | 396          | 12:13 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Kishenpur  | 400                | 413         | 03:04 | 399          | 19:22 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Wagoora    | 400                | 412         | 00:50 | 385          | 19:23 | 0.0                    | 5.9     | 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 (m <sup>3</sup> /s) | Usage (m <sup>3</sup> /s) |
| Bhakra            | 513.59     | 445.62   | 501.69             | 1166.44     | 512.09    | 1650.87     | 929.81                     | 550.25                    |
| Pong              | 426.72     | 384.05   | 418.91             | 834.82      | 423.08    | 1035.89     | 50.27                      | 330.34                    |
| Tehri             | 829.79     | 740.04   | 821.80             | 1040.00     | 818.65    | 982.26      | 414.93                     | 422.00                    |
| Koteswar          | 612.50     | 598.50   | 609.70             | 4.21        | NA        | NA          | 422.00                     | 512.00                    |
| Chamera-I         | 760.00     | 748.75   | NA                 | NA          | NA        | NA          | 326.52                     | 347.63                    |
| Rihand            | 268.22     | 252.98   | 262.28             | 435.50      | 264.05    | 548.10      | 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   | 512.92             | NA          | 523.98    | NA          | 388.51                     | 166.90                    |

\* NA: Not Available  
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 11.09.2012 :  
1: Normal weather.

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 : 11.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER