

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.06.2013  
Date of Reporting : 01.07.2013

### 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 |
| 35225                       | 1908     | 37132       | 49.94      | 29550                   | 400      | 29950       | 50.58      | 801.6               | 31.04    |

\* 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       | 32.84                                    | 14.07        |                     | 46.91         | 107.86                      | 93.33                     | -14.53         | 140.23                   | 9.60                |
| Haryana      | 47.93                                    | 0.51         |                     | 48.44         | 96.04                       | 95.63                     | -0.40          | 144.08                   | 1.11                |
| Rajasthan    | 77.59                                    | 0.00         | 26.41               | 104.00        | 58.88                       | 52.87                     | -6.01          | 156.87                   | 0.00                |
| Delhi        | 26.76                                    |              |                     | 26.76         | 69.63                       | 69.83                     | 0.20           | 96.59                    | 1.48                |
| UP           | 85.19                                    | 3.37         | 3.60                | 92.16         | 86.14                       | 84.27                     | -1.86          | 176.43                   | 16.93               |
| Uttarakhand  |  | 11.88        |                     | 11.88         | 18.70                       | 19.56                     | 0.86           | 31.44                    | 0.22                |
| HP           |  | 23.26        |                     | 23.26         | 2.35                        | 0.14                      | -2.22          | 23.40                    | 0.00                |
| J & K        |  | 13.82        | 0.00                | 13.82         | 12.16                       | 14.16                     | 2.00           | 27.98                    | 1.70                |
| Chandigarh   |  |              |                     | 0.00          | 5.53                        | 4.63                      | -0.90          | 4.63                     | 0.00                |
| <b>Total</b> | <b>270.31</b>                            | <b>66.91</b> | <b>30.01</b>        | <b>367.22</b> | <b>457.28</b>               | <b>434.41</b>             | <b>-22.86</b>  | <b>801.64</b>            | <b>31.04</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 | STOA/PX transaction |  |
| Punjab       | 7602                        | 400         | -109        | 1717                | 2325                    | 400        | -1748        | 1748                | 41.41               |  |
| Haryana      | 6575                        | 18          | 82          | 1047                | 5273                    | 0          | -1173        | 1058                | 24.12               |  |
| Rajasthan    | 5968                        | 0           | -92         | -46                 | 6796                    | 0          | -159         | 244                 | 4.20                |  |
| Delhi        | 3969                        | 120         | -38         | -167                | 4313                    | 0          | 120          | -160                | -2.37               |  |
| UP           | 7440                        | 1270        | -229        | 103                 | 7385                    | 0          | 246          | 358                 | 4.69                |  |
| Uttarakhand  | 1405                        | 0           | 66          | 346                 | 1387                    | 0          | 110          | 293                 | 7.26                |  |
| HP           | 816                         | 0           | -179        | -999                | 901                     | 0          | -205         | -987                | -23.32              |  |
| J&K          | 1231                        | 100         | 9           | -226                | 989                     | 0          | 105          | -502                | -8.85               |  |
| Chandigarh   | 218                         | 0           | -32         | 0                   | 182                     | 0          | -52          | 0                   | 0.00                |  |
| <b>Total</b> | <b>35225</b>                | <b>1908</b> | <b>-521</b> | <b>1774</b>         | <b>29550</b>            | <b>400</b> | <b>-4200</b> | <b>2052</b>         | <b>47.14</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                             | 1935                     | 2018               | 1475                   | 39.37              | 1640                   | 39.64              | -0.27        |
|   | Rihand I STPS           | 1000                             | 479                      | 463                | 325                    | 8.65               | 361                    | 9.08               | -0.43        |
|   | Rihand II STPS          | 1000                             | 955                      | 945                | 677                    | 17.58              | 732                    | 18.17              | -0.60        |
|   | Rihand III STPS         | 500                              | 480                      | 480                | 320                    | 8.71               | 363                    | 9.05               | -0.35        |
|   | Dadri I STPS            | 840                              | 810                      | 772                | 621                    | 14.81              | 617                    | 15.35              | -0.54        |
|   | Dadri II STPS           | 980                              | 641                      | 997                | 352                    | 12.18              | 507                    | 12.70              | -0.53        |
|   | Unchahar I TPS          | 420                              | 394                      | 347                | 328                    | 7.11               | 296                    | 7.21               | -0.10        |
|   | Unchahar II TPS         | 420                              | 201                      | 206                | 155                    | 3.64               | 152                    | 3.67               | -0.04        |
|   | Unchahar III TPS        | 210                              | 200                      | 209                | 156                    | 3.61               | 151                    | 3.64               | -0.03        |
|   | ISTPP (Jhajhar)         | 1500                             | 1410                     | 435                | 634                    | 8.55               | 356                    | 10.83              | -2.28        |
|   | Dadri GPS               | 830                              | 804                      | 183                | 375                    | 5.14               | 214                    | 7.11               | -1.97        |
|   | Anta GPS                | 419                              | 398                      | 249                | 240                    | 5.69               | 237                    | 5.69               | 0.00         |
|   | Auraiya GPS             | 663                              | 632                      | 155                | 318                    | 4.20               | 175                    | 5.93               | -1.73        |
|   | <b>Sub Total (A)</b>    | <b>10782</b>                     | <b>9337</b>              | <b>7459</b>        | <b>5976</b>            | <b>139.24</b>      | <b>5802</b>            | <b>148.08</b>      | <b>-8.84</b> |
| B. NPC                                  | NAPS                    | 440                              | 295                      | 333                | 343                    | 7.14               | 297                    | 7.08               | 0.05         |
|   | RAPS- B                 | 440                              | 389                      | 429                | 432                    | 9.23               | 385                    | 9.34               | -0.11        |
|   | RAPS- C                 | 440                              | 420                      | 455                | 468                    | 9.86               | 411                    | 10.08              | -0.23        |
|   | <b>Sub Total (B)</b>    | <b>1320</b>                      | <b>1104</b>              | <b>1217</b>        | <b>1243</b>            | <b>26.22</b>       | <b>1092</b>            | <b>26.50</b>       | <b>-0.28</b> |
| C. NHPC                                 | Chamera I HPS           | 540                              | 540                      | 540                | 0                      | 11.63              | 484                    | 11.54              | 0.09         |
|   | Chamera II HPS          | 300                              | 306                      | 306                | 304                    | 7.31               | 305                    | 7.34               | -0.03        |
|   | Chamera III HPS         | 231                              | 231                      | 235                | 103                    | 5.28               | 220                    | 5.28               | 0.00         |
|   | Bairasuil HPS           | 180                              | 179                      | 179                | 60                     | 2.10               | 88                     | 2.24               | -0.14        |
|   | Salal-HPS               | 690                              | 555                      | 553                | 560                    | 13.24              | 552                    | 13.32              | -0.08        |
|   | Tanakpur-HPS            | 94                               | 18                       | 0                  | 75                     | 0.42               | 18                     | 0.44               | -0.01        |
|   | Uri-HPS                 | 480                              | 465                      | 474                | 458                    | 11.24              | 469                    | 11.13              | 0.11         |
|   | Dhauliganga-HPS         | 280                              | 0                        | 0                  | 0                      | 0.00               | 0                      | 0.00               | 0.00         |
|   | Dulhasi-HPS             | 390                              | 70                       | 0                  | 0                      | 0.76               | 32                     | 0.65               | 0.11         |
|   | Sewa-II HPS             | 120                              | 119                      | 82                 | 8                      | 0.91               | 38                     | 0.90               | 0.01         |
| <b>Sub Total (C)</b>                    | <b>3305</b>             | <b>2483</b>                      | <b>2369</b>              | <b>1568</b>        | <b>52.90</b>           | <b>2204</b>        | <b>52.83</b>           | <b>0.06</b>        |              |
| D. NJPC                                 | Natpaa Jhakri           | 1500                             | 1570                     | 1602               | 1507                   | 36.91              | 1538                   | 37.68              | -0.77        |
|   | <b>Sub Total (D)</b>    | <b>1500</b>                      | <b>1570</b>              | <b>1602</b>        | <b>1507</b>            | <b>36.91</b>       | <b>1538</b>            | <b>37.68</b>       | <b>-0.77</b> |
| E. THDC                                 | Tehri HPS               | 1000                             | 815                      | 818                | 0                      | 16.10              | 671                    | 16.26              | -0.16        |
|   | <b>Sub Total (E)</b>    | <b>1400</b>                      | <b>1192</b>              | <b>1205</b>        | <b>0</b>               | <b>22.50</b>       | <b>938</b>             | <b>22.76</b>       | <b>-0.26</b> |
| F. BBMB                                 | Bhakra HPS              | 1480                             | 1245                     | 1260               | 1148                   | 29.97              | 1249                   | 29.88              | 0.09         |
|   | Dehar HPS               | 990                              | 608                      | 825                | 590                    | 14.90              | 621                    | 14.59              | 0.32         |
|   | Pong HPS                | 396                              | 169                      | 368                | 66                     | 4.18               | 174                    | 4.06               | 0.12         |
|   | <b>Sub Total (F)</b>    | <b>2866</b>                      | <b>2022</b>              | <b>2453</b>        | <b>1804</b>            | <b>49.05</b>       | <b>2044</b>            | <b>48.53</b>       | <b>0.52</b>  |
| G. IPP(s)/JV(s)                         | ADHPL HPS(IPP)          | 192                              | 0                        | 230                | 230                    | 4.61               | 192                    | 4.90               | -0.29        |
|   | KWHEP HPS(IPP)          | 1000                             | 0                        | 1206               | 1100                   | 28.04              | 1168                   | 28.53              | -0.50        |
|   | Malana Stg-II HPS       | 100                              | 0                        | 110                | 113                    | 2.05               | 85                     | 1.91               | 0.14         |
|   | Shree Cement TPS        | 300                              | 0                        | 262                | 235                    | 6.21               | 259                    | 6.37               | -0.17        |
|   | Budhil HPS(IPP)         | 70                               | 0                        | 69                 | 69                     | 1.65               | 69                     | 1.65               | 0.00         |
|   | <b>Sub Total (G)</b>    | <b>1662</b>                      | <b>0</b>                 | <b>1877</b>        | <b>1747</b>            | <b>42.55</b>       | <b>1773</b>            | <b>43.37</b>       | <b>-0.82</b> |
| <b>H. Total Regional Entities (A-G)</b> | <b>22836</b>            | <b>17708</b>                     | <b>18182</b>             | <b>13845</b>       | <b>369.36</b>          | <b>15390</b>       | <b>379.75</b>          | <b>-10.39</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                              | 680          | 680          | 15.59         | 650                  |             |
|   | Guru Nanak Dev TPS(Bhatinda)    | 440                               | 204          | 95           | 2.74          | 114                  |             |
|   | Guru Hargobind Singh TPS(L.mbt) | 920                               | 914          | 493          | 14.51         | 605                  |             |
|   | Goindwal(GVK)                   |                                   | 0            | 0            | 0.00          | 0                    |             |
|   | Thermal (Total)                 | 2620                              | 1798         | 1268         | 32.84         | 1368                 |             |
|   | Total Hydro                     | 1148                              | 778          | 70           | 14.07         | 586                  |             |
|   | <b>Total Punjab</b>             | <b>3768</b>                       | <b>2576</b>  | <b>1338</b>  | <b>46.91</b>  | <b>1954</b>          |             |
| Haryana   | Panipat TPS                     | 1367                              | 629          | 598          | 14.51         | 605                  |             |
|   | DCRTPP (Yamuna nagar)           | 600                               | 279          | 257          | 6.20          | 259                  |             |
|   | Faridabad GPS (NTPC)            | 432                               | 151          | 198          | 4.20          | 175                  |             |
|   | RGTPP (khedar) (IPP)            | 1200                              | 551          | 915          | 13.04         | 544                  |             |
|   | Magnum Diesel (IPP)             | 25                                | 0            | 0            | 0.00          | 0                    |             |
|   | Jhajjar(CLP)                    | 1320                              | 385          | 419          | 9.98          | 416                  |             |
|   | Thermal (Total)                 | 4944                              | 1995         | 2387         | 47.93         | 1997                 |             |
|   | Total Hydro                     | 62                                | 22           | 12           | 0.51          | 21                   |             |
|   |                                 | <b>Total Haryana</b>              | <b>5006</b>  | <b>2017</b>  | <b>2399</b>   | <b>48.44</b>         | <b>2018</b> |
|   | Rajasthan                       | kota TPS                          | 1240         | 721          | 724           | 17.09                | 712         |
| suratgarh TPS   |                                 | 1500                              | 726          | 730          | 17.66         | 736                  |             |
| Chabra TPS  |                                 | 500                               | 192          | 192          | 4.73          | 197                  |             |
| Dholpur GPS   |                                 | 330                               | 0            | 110          | 1.59          | 66                   |             |
| Ramgarh GPS   |                                 | 111                               | 11           | 66           | 1.11          | 46                   |             |
| RAPS A (NPC)  |                                 | 300                               | 178          | 178          | 4.28          | 178                  |             |
| Barsingar (NLC)   |                                 | 250                               | 160          | 168          | 4.10          | 171                  |             |
| Giral LTSP  |                                 | 250                               | 0            | 0            | 0.00          | 0                    |             |
| Rajwest LTSP (IPP)  |                                 | 1080                              | 519          | 510          | 14.28         | 595                  |             |
| VSLP LTSP (IPP)   |                                 | 135                               | 0            | 0            | 0.00          | 0                    |             |
| Kalisindh Thermal   |                                 | 600                               | 0            | 0            | 0.00          | 0                    |             |
| Kawai(Adani)  |                                 | 660                               | 513          | 457          | 12.75         | 531                  |             |
| Thermal (Total)   |                                 | 6956                              | 3020         | 3135         | 77.59         | 3233                 |             |
| Total Hydro   |                                 | 550                               | 0            | 0            | 0.00          | 0                    |             |
| Wind power  |                                 | 2191                              | 870          | 1244         | 24.78         | 1033                 |             |
| Biomass   |                                 | 91                                | 33           | 33           | 0.80          | 33                   |             |
| Solar   |                                 | 201                               | 0            | 0            | 0.83          | 34                   |             |
| Renewable/Others (Total)  |                                 | 2483                              | 903          | 1277         | 26.41         | 1100                 |             |
|   |                                 | <b>Total Rajasthan</b>            | <b>9989</b>  | <b>3923</b>  | <b>4412</b>   | <b>104.00</b>        | <b>4333</b> |
| UP  |                                 | Anpara TPS                        | 1630         | 1124         | 912           | 24.80                | 1033        |
|   | Obra TPS                        | 1288                              | 469          | 454          | 10.90         | 454                  |             |
|   | Paricha TPS                     | 1140                              | 325          | 650          | 13.00         | 542                  |             |
|   | Panki TPS                       | 210                               | 113          | 122          | 2.70          | 113                  |             |
|   | Harduaganj TPS                  | 665                               | 117          | 0            | 1.10          | 46                   |             |
|   | Tanda TPS (NTPC)                | 440                               | 172          | 164          | 4.67          | 194                  |             |
|   | Roza TPS (IPP)                  | 1200                              | 581          | 738          | 15.20         | 633                  |             |
|   | Anpara-C (IPP)                  | 1200                              | 546          | 362          | 9.99          | 416                  |             |
|   | Bajaj Energy Pvt.Ltd(IPP) TPS   | 450                               | 0            | 313          | 2.83          | 118                  |             |
|   | Thermal (Total)                 | 8223                              | 3447         | 3715         | 85.19         | 3549                 |             |
|   | Vishnuparyag HPS (IPP)          | 400                               | 0            | 0            | 0.00          | 0                    |             |
|   | Other Hydro                     | 527                               | 169          | 127          | 3.37          | 140                  |             |
|   | Cogeneration                    | 981                               | 150          | 150          | 3.60          | 150                  |             |
|   |                                 | <b>Total UP</b>                   | <b>10131</b> | <b>3766</b>  | <b>3992</b>   | <b>92.16</b>         | <b>3840</b> |
| Uttarakhand   | Total Hydro                     | 1303                              | 498          | 508          | 11.88         | 495                  |             |
|   | <b>Total Uttarakhand</b>        | <b>1303</b>                       | <b>498</b>   | <b>508</b>   | <b>11.88</b>  | <b>495</b>           |             |
| Delhi   | Rajghat TPS                     | 135                               | 80           | 79           | 2.02          | 84                   |             |
|   | Delhi Gas Turbine               | 282                               | 75           | 160          | 2.51          | 105                  |             |
|   | Pragati Gas Turbine             | 330                               | 261          | 271          | 6.56          | 273                  |             |
|   | Rithala GPS                     | 95                                | 0            | 0            | 0.00          | 0                    |             |
|   | Bawana GPS                      | 686                               | 201          | 212          | 4.65          | 194                  |             |
|   | Badarpur TPS (NTPC)             | 705                               | 490          | 505          | 11.02         | 459                  |             |
|   | Thermal (Total)                 | 2232                              | 1107         | 1227         | 26.76         | 1115                 |             |
|   |                                 | <b>Total Delhi</b>                | <b>2232</b>  | <b>1107</b>  | <b>1227</b>   | <b>26.76</b>         | <b>1115</b> |
| HP  | Baspa HPS (IPP)                 | 330                               | 325          | 296          | 7.23          | 301                  |             |
|   | Malana HPS (IPP)                | 86                                | 104          | 102          | 2.26          | 94                   |             |
|   | Other Hydro                     | 589                               | 483          | 607          | 13.77         | 574                  |             |
|   | <b>Total HP</b>                 | <b>1005</b>                       | <b>912</b>   | <b>1005</b>  | <b>23.26</b>  | <b>969</b>           |             |
| J & K   | Baglihar HPS (IPP)              | 450                               | 438          | 440          | 10.54         | 439                  |             |
|   | Other Hydro                     | 323                               | 120          | 135          | 3.29          | 137                  |             |
|   | Gas/Diesel/Others               | 183                               | 0            | 0            | 0.00          | 0                    |             |
|   |                                 | <b>Total J &amp; K</b>            | <b>956</b>   | <b>558</b>   | <b>575</b>    | <b>13.82</b>         | <b>576</b>  |
| <b>Total State Control Area Generation</b>                        |                                 | <b>34390</b>                      | <b>15357</b> | <b>15456</b> | <b>367.22</b> | <b>15301</b>         |             |
| <b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b> |                                 |                                   | <b>4967</b>  | <b>930</b>   | <b>76.31</b>  | <b>3180</b>          |             |
| <b>Total Regional Availability(Gross)</b>                         |                                 | <b>57226</b>                      | <b>38506</b> | <b>30231</b> | <b>812.89</b> | <b>33871</b>         |             |

#### IV. Total Hydro Generation:

|                             |              |              |             |               |              |
|-----------------------------|--------------|--------------|-------------|---------------|--------------|
| Regional Entities Hydro     | 10364        | 9175         | 6322        | 196.05        | 8169         |
| State Control Area Hydro    | 5368         | 2937         | 2297        | 66.91         | 2788         |
| <b>Total Regional Hydro</b> | <b>15731</b> | <b>12112</b> | <b>8619</b> | <b>262.96</b> | <b>10957</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              | -300                | 250                      | 500    | 1.54         | 3.89         | -2.35         |
| Gwalior-Agra (D/C)         | 1817            | 92                  | 1817                     | 0      | 22.98        | 0.00         | 22.98         |
| Zerda-Kankroli             | 17              | -371                | 17                       | 390    | 0.00         | 5.50         | -5.50         |
| Zerda-Bhinmal              | 19              | -353                | 40                       | 398    | 0.00         | 4.83         | -4.83         |
| Malanpur-Auraiya           | -20             | -118                | 0                        | 123    | 0.00         | 1.28         | -1.28         |
| Badod-Kota/Morak           | -33             | -155                | 0                        | 160    | 0.00         | 1.93         | -1.93         |
| Mundra-Mohindergarh(HVDC)  | 1449            | 1055                | 1449                     | 0      | 30.76        | 0.00         | 30.76         |
| <b>Sub Total WR</b>        | <b>3299</b>     | <b>-150</b>         |                          |        | <b>55.28</b> | <b>17.43</b> | <b>37.85</b>  |
| Pusauli Bypass             | -222            | -207                | 0                        | 306    | 0.00         | 4.56         | -4.56         |
| MZP- GKP (D/C)             | 734             | 600                 | 916                      | 0      | 17.90        | 0.00         | 17.90         |
| Patna-Balia(D/C)           | 539             | 277                 | 602                      | 0      | 10.28        | 0.00         | 10.28         |
| B'Sharif-Balia (D/C)       | 244             | 170                 | 323                      | 0      | 5.94         | 0.00         | 5.94          |
| Pusauli-Balia              | -18             | -17                 | 0                        | 30     | 0.00         | 0.45         | -0.45         |
| Gaya-Fatehpur (765 Kv)     | 59              | 18                  | 146                      | 9      | 1.87         | 0.00         | 1.87          |
| Pusauli-Sahupuri           | 97              | 89                  | 129                      | 0      | 2.29         | 0.00         | 2.29          |
| K'nasa-Sahupuri            | 0               | 0                   | 0                        | 0      | 0.00         | 0.00         | 0.00          |
| Son Ngr-Rihand             | -38             | -40                 | 0                        | 45     | 0.00         | 0.90         | -0.90         |
| Garhwa-Rihand              | 0               | 0                   | 0                        | 0      | 0.00         | 0.00         | 0.00          |
| Sasaram - Fatehpur(765 KV) | 273             | 190                 | 352                      | 0      | 6.08         | 0.00         | 6.08          |
| <b>Sub Total ER</b>        | <b>1668</b>     | <b>1080</b>         |                          |        | <b>44.36</b> | <b>5.90</b>  | <b>38.46</b>  |
| <b>Total IR Exch</b>       | <b>4967</b>     | <b>930</b>          |                          |        | <b>99.64</b> | <b>23.33</b> | <b>76.31</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 |
| 38.13                 | 3.89   | 42.02 | -2.48                   | 14.80      | -0.82                    | -3.52      | 0.59          | -0.59      |

  

| 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 |
| 39.32                  | 53.01                   | 92.33 | 38.46                | 37.85      | 76.31 | -0.86          | -15.16     |

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

| <48.80 | <49.0 | <49.20 | <49.50 | <49.7 | 49.5 - 50.2 | 49.7-49.8 | 49.7 - 50.2 | > 50.00 | > 50.2 |
|--------|-------|--------|--------|-------|-------------|-----------|-------------|---------|--------|
| 0.00   | 0.00  | 0.00   | 0.00   | 0.30  | 66.10       | 2.20      | 65.80       | 78.50   | 33.90  |

| 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  |                      |                           |           |                           |          |
| 50.64          | 4.02 | 49.59   | 20.05 | 50.14                | 0.56                      | 0.19      | 50.68                     | 49.91    |

**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                | 420         | 02:05 | 405          | 22:38 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Gorakhpur  | 400                | 427         | 03:22 | 400          | 22:52 | 0.0                    | 0.0     | 45.8    | 0.0     |
| Bareilly   | 400                | 427         | 03:48 | 395          | 23:07 | 0.0                    | 0.0     | 5.2     | 0.0     |
| Kanpur     | 400                | 430         | 03:46 | 402          | 22:14 | 0.0                    | 0.0     | 36.0    | 0.0     |
| Dadri      | 400                | 422         | 03:57 | 396          | 22:06 | 0.0                    | 0.0     | 1.6     | 0.0     |
| Ballabgarh | 400                | 429         | 03:57 | 401          | 22:06 | 0.0                    | 0.0     | 9.9     | 0.0     |
| Bawana     | 400                | 424         | 03:57 | 398          | 22:09 | 0.0                    | 0.0     | 4.0     | 0.0     |
| Bassi      | 400                | 431         | 03:57 | 402          | 23:06 | 0.0                    | 0.0     | 11.5    | 0.1     |
| Hissar     | 400                | 420         | 03:58 | 388          | 22:06 | 0.0                    | 0.9     | 0.0     | 0.0     |
| Moga       | 400                | 425         | 01:17 | 396          | 22:04 | 0.0                    | 0.0     | 2.4     | 0.0     |
| Abdullapur | 400                | 420         | 03:45 | 399          | 22:09 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Nalagarh   | 400                | 425         | 03:04 | 394          | 14:50 | 0.0                    | 0.0     | 7.9     | 0.0     |
| Kishenpur  | 400                | 412         | 19:00 | 401          | 21:58 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Wagoora    | 400                | 418         | 03:28 | 394          | 21:33 | 0.0                    | 0.0     | 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                | 797         | 03:57 | 744          | 22:15 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Balia    | 765                | 773         | 02:06 | 724          | 22:14 | 2.6                    | 17.5    | 0.0     | 0.0     |
| Moga     | 765                | 806         | 01:08 | 742          | 09:43 | 0.0                    | 0.0     | 2.2     | 0.0     |
| Agra     | 765                | 823         | 03:57 | 765          | 22:09 | 0.0                    | 0.0     | 13.0    | 0.5     |
| Bhiwani  | 765                | 791         | 03:46 | 751          | 22:09 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Unnao    | 765                | 778         | 03:33 | 731          | 23:15 | 0.0                    | 17.0    | 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 (m³/s) | Usage (m³/s) |
| Bhakra            | 513.59     | 445.62   | 490.71             | 758.57      | 467.71    | 230.40      | 1988.19       | 927.94       |
| Pong              | 426.72     | 384.05   | 404.22             | 320.28      | 394.31    | 116.59      | 601.84        | 227.44       |
| Tehri             | 829.79     | 740.04   | 780.05             | 322.00      | 818.65    | 982.26      | 603.78        | 462.00       |
| Koteswar          | 612.50     | 598.50   | NA                 | NA          | NA        | NA          | NA            | NA           |
| Chamera-I         | 760.00     | 748.75   | NA                 | NA          | NA        | NA          | 351.16        | 373.15       |
| Rihand            | 268.22     | 252.98   | 254.69             | 64.30       | 254.42    | 53.70       | 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   | 513.15             | NA          | 499.58    | NA          | 447.92        | 427.73       |

\* NA: Not Available

**X. System Constraints:**

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

**XII. Weather Conditions For 30.06.2013 :**

1. Scattered Rain in NR.

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

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

- 1: 400kV Amritsar - Banala ckt-2 first time charged at 22.04 hrs of dt. 30.06.2013
- 2: 400kV Amritsar - Banala ckt- 1 first time charged at 22.20 hrs of dt. 30.06.2013
- 3: 8 nos 400kV Bays first time charged at Banala in between 23.10 to 23.40 hrs of dt. 30.06.2013.

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

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

1. Dhautiganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg( UPPCL) ( 400 MW ) Closed due to High Silt level in river water.

Report for : 30.06.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER