

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.05.2012  
Date of Reporting : 28.05.2012

### I. Regional Availability/Demand:

| Demand Met | Evening Peak (20:00 Hrs) MW |             |            | Demand Met | Off Peak (03:00 Hrs) MW |             |            | Day Energy (Net MU) |          |
|------------|-----------------------------|-------------|------------|------------|-------------------------|-------------|------------|---------------------|----------|
|            | Shortage                    | Requirement | Freq* (Hz) |            | Shortage                | Requirement | Freq* (Hz) | Demand Met          | Shortage |
| 33547      | 3262                        | 36809       | 49.90      | 34936      | 2194                    | 37130       | 49.65      | 816.4               | 64.01    |

\* 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 (Net MU) | Actual Drawal (Net MU) | UI (Net MU)  | Consumption (Net MU) | Shortages * (MU) |
|--------------|--|--------------|---------------------|---------------|--------------------------|------------------------|--------------|----------------------|------------------|
|              | Thermal                                  | Hydro        | Renewable/others \$ | Total         |                          |                        |              |                      |                  |
| Punjab       | 49.49                                    | 15.01        |                     | 64.50         | 74.14                    | 78.66                  | 4.52         | 143.16               | 1.80             |
| Haryana      | 46.28                                    | 0.79         |                     | 47.07         | 46.45                    | 59.79                  | 13.34        | 106.86               | 16.56            |
| Rajasthan    | 81.66                                    | 0.00         | 6.59                | 88.25         | 52.04                    | 56.19                  | 4.15         | 144.44               | 1.41             |
| Delhi        | 28.02                                    |              |                     | 28.02         | 79.65                    | 65.51                  | -14.14       | 93.53                | 0.16             |
| UP           | 87.48                                    | 14.79        | 7.20                | 109.47        | 101.57                   | 129.19                 | 27.62        | 238.66               | 40.76            |
| Uttarakhand  |  | 19.34        |                     | 19.34         | 12.41                    | 13.52                  | 1.11         | 32.85                | 0.37             |
| HP           |  | 15.68        |                     | 15.68         | 10.28                    | 7.95                   | -2.33        | 23.64                | 0.00             |
| J & K        |  | 14.25        | 0.00                | 14.25         | 16.38                    | 14.07                  | -2.31        | 28.32                | 2.95             |
| Chandigarh   |  |              |                     | 0.00          | 5.51                     | 4.99                   | -0.52        | 4.99                 | 0.00             |
| <b>Total</b> | <b>292.93</b>                            | <b>79.86</b> | <b>13.79</b>        | <b>386.58</b> | <b>398.42</b>            | <b>429.87</b>          | <b>31.45</b> | <b>816.45</b>        | <b>64.01</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       | 5753                        | 450         | 431         | 417                 | 5979                    | 0           | -137       | 417                 | 9.99          |
| Haryana      | 4447                        | 737         | 497         | 107                 | 4021                    | 889         | 161        | 107                 | 2.56          |
| Rajasthan    | 5866                        | 28          | 319         | -531                | 6396                    | 19          | 158        | -481                | -12.44        |
| Delhi        | 3911                        | 2           | -595        | 599                 | 4015                    | 14          | -615       | 588                 | 14.28         |
| UP           | 9626                        | 1895        | 773         | 70                  | 10964                   | 1172        | 1636       | 75                  | 1.71          |
| Uttarakhand  | 1562                        | 0           | 175         | 27                  | 1391                    | 0           | 37         | 27                  | 0.65          |
| HP           | 826                         | 0           | -349        | -634                | 930                     | 0           | -126       | -416                | -11.62        |
| J&K          | 1339                        | 150         | -32         | -388                | 1027                    | 100         | -248       | -408                | -9.88         |
| Chandigarh   | 217                         | 0           | -33         | 0                   | 213                     | 0           | -1         | 0                   | 0.57          |
| <b>Total</b> | <b>33547</b>                | <b>3262</b> | <b>1186</b> | <b>-333</b>         | <b>34936</b>            | <b>2194</b> | <b>865</b> | <b>-92</b>          | <b>-4.18</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                             | 1894                     | 2062               | 2068                   | 45.96              | 1915                   | 45.45              | 0.51         |
|   | Rihand I STPS           | 1000                             | 887                      | 961                | 975                    | 21.42              | 893                    | 21.29              | 0.13         |
|   | Rihand II STPS          | 1000                             | 935                      | 1002               | 1007                   | 21.63              | 901                    | 22.44              | -0.81        |
|   | Dadri I STPS            | 840                              | 763                      | 869                | 849                    | 18.69              | 779                    | 17.94              | 0.76         |
|   | Dadri II STPS           | 980                              | 958                      | 1013               | 1023                   | 22.86              | 952                    | 23.00              | -0.14        |
|   | Unchahar I TPS          | 420                              | 402                      | 441                | 440                    | 9.68               | 403                    | 9.65               | 0.03         |
|   | Unchahar II TPS         | 420                              | 404                      | 440                | 443                    | 9.66               | 402                    | 9.70               | -0.04        |
|   | Unchahar III TPS        | 210                              | 201                      | 221                | 219                    | 4.82               | 201                    | 4.82               | 0.00         |
|   | ISTPP (Jhajjar)         | 1000                             | 470                      | 397                | 507                    | 9.46               | 394                    | 9.51               | -0.05        |
|   | Dadri GPS               | 830                              | 734                      | 578                | 750                    | 15.36              | 640                    | 15.50              | -0.14        |
|   | Anta GPS                | 419                              | 379                      | 298                | 389                    | 8.00               | 333                    | 7.99               | 0.01         |
|   | Auraiya GPS             | 663                              | 584                      | 496                | 608                    | 12.69              | 529                    | 12.48              | 0.21         |
|   | <b>Sub Total (A)</b>    | <b>9782</b>                      | <b>8611</b>              | <b>8778</b>        | <b>9278</b>            | <b>200.22</b>      | <b>8342</b>            | <b>199.75</b>      | <b>0.47</b>  |
|   | B. NPC                  | NAPS                             | 440                      | 260                | 293                    | 292                | 6.18                   | 258                | 6.24         |
| RAPS- B                                 |                         | 440                              | 386                      | 433                | 435                    | 9.36               | 390                    | 9.26               | 0.10         |
| RAPS- C                                 |                         | 440                              | 210                      | 221                | 235                    | 4.93               | 205                    | 5.04               | -0.11        |
| <b>Sub Total (B)</b>                    |                         | <b>1320</b>                      | <b>856</b>               | <b>947</b>         | <b>962</b>             | <b>20.47</b>       | <b>853</b>             | <b>20.54</b>       | <b>-0.07</b> |
| C. NHPC                                 | Chamera I HPS           | 540                              | 534                      | 540                | 540                    | 12.70              | 529                    | 12.81              | -0.11        |
|   | Chamera II HPS          | 300                              | 297                      | 301                | 299                    | 7.13               | 297                    | 7.16               | -0.03        |
|   | Bairasuil HPS           | 180                              | 182                      | 182                | 150                    | 3.35               | 140                    | 3.73               | -0.38        |
|   | Salal-HPS               | 690                              | 93                       | 17                 | 0                      | 2.42               | 101                    | 2.24               | 0.18         |
|   | Tanakpur-HPS            | 94                               | 55                       | 70                 | 60                     | 1.57               | 65                     | 1.57               | -0.01        |
|   | Uri-HPS                 | 480                              | 476                      | 480                | 478                    | 11.59              | 483                    | 11.59              | 0.01         |
|   | Dhauliganga-HPS         | 280                              | 277                      | 288                | 285                    | 4.83               | 201                    | 4.88               | -0.06        |
|   | Dulhasti-HPS            | 390                              | 388                      | 416                | 415                    | 9.14               | 381                    | 9.20               | -0.06        |
|   | Sewa-II HPS             | 120                              | 80                       | 85                 | 85                     | 1.90               | 79                     | 1.89               | 0.01         |
|   | <b>Sub Total (C)</b>    | <b>3074</b>                      | <b>2381</b>              | <b>2379</b>        | <b>2312</b>            | <b>54.62</b>       | <b>2276</b>            | <b>55.07</b>       | <b>-0.46</b> |
| D. NJPC                                 | Nathpa Jhakri           | 1500                             | 1600                     | 1621               | 1621                   | 31.18              | 1299                   | 32.35              | -1.17        |
|   | <b>Sub Total (D)</b>    | <b>1500</b>                      | <b>1600</b>              | <b>1621</b>        | <b>1621</b>            | <b>31.18</b>       | <b>1299</b>            | <b>32.35</b>       | <b>-1.17</b> |
| E. THDC                                 | Tehri HPS               | 1000                             | 520                      | 520                | 245                    | 5.03               | 210                    | 5.00               | 0.03         |
|   | Koteshwar HPS           | 400                              | 400                      | 90                 | 90                     | 2.63               | 110                    | 2.60               | 0.03         |
|   | <b>Sub Total (E)</b>    | <b>1400</b>                      | <b>920</b>               | <b>610</b>         | <b>335</b>             | <b>7.66</b>        | <b>319</b>             | <b>7.60</b>        | <b>0.06</b>  |
| F. BBMB                                 | Bhakra HPS              | 1480                             | 694                      | 1133               | 534                    | 17.10              | 713                    | 16.66              | 0.44         |
|   | Dehar HPS               | 990                              | 602                      | 660                | 600                    | 14.88              | 620                    | 14.45              | 0.44         |
|   | Pong HPS                | 396                              | 243                      | 300                | 240                    | 6.06               | 253                    | 5.84               | 0.22         |
|   | <b>Sub Total (F)</b>    | <b>2866</b>                      | <b>1539</b>              | <b>2093</b>        | <b>1374</b>            | <b>38.04</b>       | <b>1585</b>            | <b>36.95</b>       | <b>1.09</b>  |
| G. IPP(s)/JV(s)                         | ADHPL HPS(IPP)          | 192                              | 0                        | 186                | 147                    | 3.19               | 133                    | 3.22               | -0.02        |
|   | KWHEP HPS(IPP)          | 1000                             | 0                        | 1000               | 901                    | 17.12              | 713                    | 18.04              | -0.92        |
|   | Malana Stg-II HPS       | 100                              | 0                        | 50                 | 57                     | 1.30               | 54                     | 0.00               | 1.30         |
|   | Shree Cement TPS        | 300                              | 0                        | 256                | 265                    | 6.08               | 253                    | 5.17               | 0.91         |
|   | <b>Sub Total (G)</b>    | <b>1592</b>                      | <b>0</b>                 | <b>1492</b>        | <b>1370</b>            | <b>27.69</b>       | <b>1154</b>            | <b>26.43</b>       | <b>1.26</b>  |
| <b>H. Total Regional Entities (A-G)</b> | <b>21535</b>            | <b>15908</b>                     | <b>17920</b>             | <b>17252</b>       | <b>379.88</b>          | <b>15828</b>       | <b>378.69</b>          | <b>1.19</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                              | 1045         | 1050         | 23.60         | 983                  |
|   | Guru Nanak Dev TPS(Bhatinda)    | 440                               | 211          | 210          | 4.55          | 190                  |
|   | Guru Hargobind Singh TPS(L.mbt) | 920                               | 956          | 961          | 21.34         | 889                  |
|   | Thermal (Total)                 | 2620                              | 2212         | 2221         | 49.49         | 2062                 |
|   | Total Hydro                     | 1148                              | 469          | 599          | 15.01         | 625                  |
|   | <b>Total Punjab</b>             | <b>3768</b>                       | <b>2681</b>  | <b>2820</b>  | <b>64.50</b>  | <b>2687</b>          |
| Haryana   | Panipat TPS                     | 1367                              | 1113         | 1082         | 26.61         | 1109                 |
|   | DCRTPP (Yamuna nagar)           | 600                               | 0            | 0            | 0.00          | 0                    |
|   | Faridabad GPS (NTPC)            | 432                               | 363          | 372          | 8.82          | 368                  |
|   | RGTPP (khedar) (IPP)            | 1200                              | 480          | 449          | 10.84         | 452                  |
|   | Magnum Diesel (IPP)             | 25                                | 0            | 0            | 0.00          | 0                    |
|   | Jhajjar(CLP)                    | 1320                              | 0            | 0            | 0.00          | 0                    |
|   | Thermal (Total)                 | 4944                              | 1956         | 1903         | 46.28         | 1928                 |
|   | Total Hydro                     | 62                                | 20           | 21           | 0.79          | 33                   |
|   | <b>Total Haryana</b>            | <b>5006</b>                       | <b>1976</b>  | <b>1924</b>  | <b>47.07</b>  | <b>1961</b>          |
| Rajasthan   | kota TPS                        | 1240                              | 956          | 960          | 22.79         | 950                  |
|   | suratgarh TPS                   | 1500                              | 1321         | 1267         | 31.30         | 1304                 |
|   | Chabra TPS                      | 500                               | 0            | 0            | 0.00          | 0                    |
|   | Dholpur GPS                     | 330                               | 124          | 186          | 2.83          | 118                  |
|   | Ramgarh GPS                     | 111                               | 53           | 53           | 1.34          | 56                   |
|   | RAPS A (NPC)                    | 300                               | 179          | 165          | 4.29          | 179                  |
|   | Barsingsar (NLC)                | 250                               | 209          | 189          | 5.36          | 223                  |
|   | Giral LTPS                      | 250                               | 56           | 130          | 2.09          | 87                   |
|   | Rajwest LTPS (IPP)              | 540                               | 460          | 460          | 11.66         | 486                  |
|   | VSLP LTPS (IPP)                 | 135                               | 0            | 0            | 0.00          | 0                    |
|   | Thermal (Total)                 | 5156                              | 3358         | 3410         | 81.66         | 3402                 |
|   | Total Hydro                     | 550                               | 0            | 0            | 0.00          | 0                    |
|   | Wind power                      | 1843                              | 0            | 445          | 5.53          | 230                  |
|   | Biomass                         | 91                                | 45           | 45           | 1.07          | 45                   |
|   | Solar                           | 128                               | 0            | 0            | 0.00          | 0                    |
|   | Renewable/Others (Total)        | 2062                              | 45           | 490          | 6.59          | 275                  |
|   | <b>Total Rajasthan</b>          | <b>7767</b>                       | <b>3403</b>  | <b>3900</b>  | <b>88.25</b>  | <b>3677</b>          |
|   | UP                              | Anpara TPS                        | 1630         | 1220         | 1231          | 26.30                |
| Obra TPS  |                                 | 1382                              | 320          | 346          | 7.10          | 296                  |
| Paricha TPS   |                                 | 640                               | 403          | 414          | 6.70          | 279                  |
| Panki TPS   |                                 | 210                               | 130          | 125          | 2.10          | 88                   |
| Harduaganj TPS  |                                 | 665                               | 242          | 237          | 5.20          | 217                  |
| Tanda TPS (NTPC)  |                                 | 440                               | 236          | 184          | 5.13          | 214                  |
| Roza TPS (IPP)  |                                 | 1200                              | 819          | 825          | 19.70         | 821                  |
| Anpara-C (IPP)  |                                 | 1200                              | 319          | 311          | 7.57          | 315                  |
| Bajaj Energy Pvt.Ltd(IPP) TPS                                     |                                 | 450                               | 302          | 310          | 7.69          | 320                  |
| Thermal (Total)   |                                 | 7817                              | 3991         | 3983         | 87.48         | 3645                 |
| Vishnuparyag HPS (IPP)  |                                 | 400                               | 436          | 436          | 10.04         | 419                  |
| Other Hydro   |                                 | 527                               | 236          | 0            | 4.75          | 198                  |
| Cogeneration  |                                 | 981                               | 300          | 300          | 7.20          | 300                  |
| <b>Total UP</b>   |                                 | <b>9725</b>                       | <b>4963</b>  | <b>4719</b>  | <b>109.47</b> | <b>4143</b>          |
| Uttarakhand   |                                 | Total Hydro                       | 1303         | 822          | 800           | 19.34                |
|   | <b>Total Uttarakhand</b>        | <b>1303</b>                       | <b>822</b>   | <b>800</b>   | <b>19.34</b>  | <b>806</b>           |
| Delhi   | Rajghat TPS                     | 135                               | 49           | 0            | 1.07          | 45                   |
|   | Delhi Gas Turbine               | 282                               | 194          | 222          | 5.42          | 226                  |
|   | Pragati Gas Turbine             | 330                               | 273          | 272          | 5.51          | 230                  |
|   | Rithala GPS                     | 108                               | 31           | 31           | 0.76          | 32                   |
|   | Bawana GPS                      | 677                               | 0            | 245          | 4.58          | 191                  |
|   | Badarpur TPS (NTPC)             | 705                               | 495          | 495          | 10.68         | 445                  |
|   | Thermal (Total)                 | 2237                              | 1042         | 1265         | 28.02         | 1168                 |
|   | <b>Total Delhi</b>              | <b>2237</b>                       | <b>1042</b>  | <b>1265</b>  | <b>28.02</b>  | <b>1168</b>          |
| HP  | Baspa HPS (IPP)                 | 330                               | 248          | 218          | 5.06          | 211                  |
|   | Malana HPS (IPP)                | 86                                | 51           | 44           | 1.16          | 48                   |
|   | Other Hydro                     | 589                               | 383          | 416          | 9.46          | 394                  |
|   | <b>Total HP</b>                 | <b>1005</b>                       | <b>682</b>   | <b>678</b>   | <b>16</b>     | <b>653</b>           |
| J & K   | Baglihar HPS (IPP)              | 450                               | 474          | 437          | 10.50         | 437                  |
|   | Other Hydro                     | 323                               | 166          | 155          | 3.76          | 156                  |
|   | Gas/Diesel/Others               | 183                               | 0            | 0            | 0.00          | 0                    |
|   | <b>Total J &amp; K</b>          | <b>956</b>                        | <b>640</b>   | <b>592</b>   | <b>14.25</b>  | <b>594</b>           |
| <b>Total State Control Area Generation</b>                        |                                 | <b>31767</b>                      | <b>16209</b> | <b>16698</b> | <b>386.58</b> | <b>15689</b>         |
| <b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b> |                                 |                                   | <b>671</b>   | <b>3271</b>  | <b>62.56</b>  | <b>2607</b>          |
| <b>Total Regional Availability(Gross)</b>                         |                                 | <b>53302</b>                      | <b>34800</b> | <b>37221</b> | <b>829.02</b> | <b>34124</b>         |

#### IV. Total Hydro Generation:

|                             |              |              |             |               |             |
|-----------------------------|--------------|--------------|-------------|---------------|-------------|
| Regional Entities Hydro     | 10133        | 7939         | 6747        | 153.11        | 6379        |
| State Control Area Hydro    | 5368         | 2869         | 2690        | 69.82         | 2909        |
| <b>Total Regional Hydro</b> | <b>15500</b> | <b>10808</b> | <b>9437</b> | <b>222.92</b> | <b>9289</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         | 0               | -200                | 0                        | 200    | 0.00         | 1.56        | -1.56         |
| Gwalior-Agra (D/C)     | 302             | 1211                | 1307                     | 0      | 21.91        | 0.00        | 21.91         |
| Zerda-Kankroli         | -45             | 131                 | 171                      | 188    | 0.70         | 0.00        | 0.70          |
| Zerda-Bhinmal          | -21             | 123                 | 238                      | 180    | 1.13         | 0.00        | 1.13          |
| Malanpur-Auraiya       | -85             | 0                   | 0                        | 166    | 0.00         | 1.25        | -1.25         |
| Badod-Kota/Morak       | 53              | 28                  | 115                      | 0      | 1.21         | 0.00        | 1.21          |
| <b>Sub Total WR</b>    | <b>204</b>      | <b>1293</b>         |                          |        | <b>24.94</b> | <b>2.81</b> | <b>22.14</b>  |
| Pusauli Bypass         | -372            | 77                  | 131                      | 372    | 1.00         | 1.05        | -0.05         |
| MZP- GKP (D/C)         | 218             | 638                 | 750                      | 0      | 14.08        | 0.00        | 14.08         |
| Patna-Balia(D/C)       | 279             | 273                 | 476                      | 0      | 7.43         | 0.00        | 7.43          |
| B'Sharif-Balia (D/C)   | 198             | 564                 | 637                      | 0      | 11.46        | 0.00        | 11.46         |
| Barh - Balia(D/C)      | 0               | 272                 | 393                      | 0      | 5.43         | 0.00        | 5.43          |
| Pusauli-Balia          | 0               | 0                   | 0                        | 0      | 0.00         | 0.00        | 0.00          |
| Gaya-Fatehpur (765 Kv) | 0               | 0                   | 0                        | 0      | 0.00         | 0.00        | 0.00          |
| Pusauli-Sahupuri       | 136             | 126                 | 153                      | 0      | 2.90         | 0.00        | 2.90          |
| K'nasa-Sahupuri        | 48              | 60                  | 60                       | 0      | 0.00         | 0.00        | 0.00          |
| Son Ngr-Rihand         | -40             | -32                 | 0                        | 47     | 0.00         | 0.84        | -0.84         |
| Garhwa-Rihand          | 0               | 0                   | 0                        | 0      | 0.00         | 0.00        | 0.00          |
| <b>Sub Total ER</b>    | <b>467</b>      | <b>1978</b>         |                          |        | <b>42.30</b> | <b>1.88</b> | <b>40.42</b>  |
| <b>Total IR Exch</b>   | <b>671</b>      | <b>3271</b>         |                          |        | <b>67.25</b> | <b>4.69</b> | <b>62.56</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 |
| 31.81                 | 0.76   | 32.58 | -2.94                   | 0.95       | -0.18                    | 3.00       | 2.99          | -2.99      |

| Total IR Schedule (MU) |            |       | Total IR Actual (MU) |            |       | Net IR UI (MU) |            |       |
|------------------------|------------|-------|----------------------|------------|-------|----------------|------------|-------|
| Through ER             | Through WR | Total | Through ER           | Through WR | Total | Through ER     | Through WR | Total |
| 32.45                  | 1.19       | 33.64 | 40.42                | 22.14      | 62.56 | 7.97           | 20.95      | 28.92 |

**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  | 0.20   | 10.10  | 37.00 | 87.40       | 60.50       | 12.70   | 2.50   |

| ----- Frequency (Hz) -----> |       |         |       | Average Frequency | Frequency Variation Index | Std. Dev. | Frequency in 15 Min Block |       |
|-----------------------------|-------|---------|-------|-------------------|---------------------------|-----------|---------------------------|-------|
| Maximum                     |       | Minimum |       |                   |                           |           | MAX                       | MIN   |
| Freq                        | Time  | Freq    | Time  | Hz                | (Hz)                      | (Hz)      |                           |       |
| 50.75                       | 18.04 | 49.17   | 23.04 | 49.78             | 0.96                      | 0.21      | 50.46                     | 49.40 |

**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                | 409         | 06:59 | 400          | 00:20 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Gorakhpur  | 400                | 425         | 06:10 | 403          | 02:43 | 0.0                    | 0.0     | 21.3    | 0.0     |
| Bareilly   | 400                | 421         | 18:04 | 393          | 01:10 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Kanpur     | 400                | 415         | 18:04 | 396          | 03:36 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Dadri      | 400                | 415         | 18:03 | 398          | 01:10 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Ballabgarh | 400                | 419         | 18:05 | 401          | 01:09 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Bawana     | 400                | 416         | 18:05 | 397          | 23:07 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Bassi      | 400                | 426         | 18:03 | 398          | 05:20 | 0.0                    | 0.0     | 2.1     | 0.0     |
| Hissar     | 400                | 414         | 18:05 | 392          | 23:08 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Moga       | 400                | 423         | 18:03 | 404          | 23:03 | 0.0                    | 0.0     | 1.0     | 0.0     |
| Abdullapur | 400                | 421         | 18:07 | 397          | 22:14 | 0.0                    | 0.0     | 0.2     | 0.0     |
| Nalagarh   | 400                | 420         | 18:07 | 400          | 23:04 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Kishenpur  | 400                | 417         | 18:02 | 401          | 21:06 | 0.0                    | 0.0     | 0.0     | 0.0     |
| Wagoora    | 400                | 409         | 13:01 | 386          | 21:08 | 0.0                    | 7.6     | 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 (m <sup>3</sup> /s) | Usage (m <sup>3</sup> /s) |
| Bhakra            | 513.59     | 445.62   | 468.74             | 248.16      | 479.42    | 447.13      | 663.35                     | 611.64                    |
| Pong              | 426.72     | 384.05   | 400.82             | 237.89      | 411.43    | 544.90      | 71.13                      | 423.73                    |
| Tehri             | 829.79     | 740.04   | 744.70             | 23.00       | 818.65    | 982.26      | 151.99                     | 175.00                    |
| Koteshwar         | 612.50     | 598.50   | 610.35             | 4.69        | NA        | NA          | 176.00                     | 167.00                    |
| Chamera-I         | 760.00     | 748.75   | 753.55             | NA          | NA        | NA          | 250.89                     | 342.37                    |
| Rihand            | 268.22     | 252.98   | 256.43             | 133.70      | 254.20    | 45.50       | 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   | 500.48             | NA          | 510.70    | NA          | 270.94                     | 212.91                    |

\* NA: Not Available

**IX. System Constraints:**

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

**XI. Weather Conditions For 27.05.2012 :**

Hot weather

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

0.00

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

1. 315MVA ICT #1 test chage at Jaipur - South (PGCIL) on no load at 18.40 Hrs/27.05.2018.

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

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

Report for : 27.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER