

**POWER SYSTEM OPERATION CORPORATION LIMITED**

S.R.L.D.C, BANGALORE

QUARTERLY REPORT

**Date:**

20 जुलाई 2012

**For Period:**

अप्रैल 12 to जून 12

**YEAR:2012-12/Quarter 1**

Brief report on Regional Power System /Performance of the grid is given below:

**1. POWER SUPPLY POSITION**

**a) Peak Demand Met and Unrestricted Demand**

| Month    | State/UT      | Peak Demand Met (MW) | Unrestricted Demand (MW) | Shortage (MW) | Shortage (%) |
|----------|---------------|----------------------|--------------------------|---------------|--------------|
| Apr-12   | Andhrapradesh | 11335                | 13042                    | 1707          | 13.09        |
|          | Karnataka     | 8264                 | 9940                     | 1676          | 16.86        |
|          | Kerala        | 3071                 | 3256                     | 185           | 5.67         |
|          | Tamilnadu     | 10078                | 11661                    | 1583          | 13.58        |
|          | Pondicherry   | 313                  | 314                      | 1             | 0.34         |
| S.Region | 31936         | 37035                | 5099                     | 13.77         |              |
| May-12   | Andhrapradesh | 11099                | 11861                    | 762           | 6.42         |
|          | Karnataka     | 8148                 | 9394                     | 1246          | 13.26        |
|          | Kerala        | 3181                 | 3367                     | 186           | 5.51         |
|          | Tamilnadu     | 10491                | 10968                    | 477           | 4.35         |
|          | Pondicherry   | 318                  | 322                      | 4             | 1.30         |
| S.Region | 32107         | 37019                | 4912                     | 13.27         |              |
| Jun-12   | Andhrapradesh | 10826                | 11523                    | 697           | 6.05         |
|          | Karnataka     | 8066                 | 8896                     | 829           | 9.32         |
|          | Kerala        | 3182                 | 3378                     | 196           | 5.79         |
|          | Tamilnadu     | 11283                | 12548                    | 1265          | 10.08        |
|          | Pondicherry   | 320                  | 325                      | 5             | 1.60         |
| S.Region | 32110         | 36492                | 4382                     | 12.01         |              |

**b) Energy availability and Requirement(MU)**

| Month    | State/UT      | Energy met Avg/Day (MU) | Requirement Avg/Day (MU) | Shortage (MU) | Shortage (%) |
|----------|---------------|-------------------------|--------------------------|---------------|--------------|
| Apr-12   | Andhrapradesh | 7377                    | 8493                     | 1116.45       | 13.15        |
|          | Karnataka     | 4777                    | 5455                     | 678.65        | 12.44        |
|          | Kerala        | 1677                    | 1757                     | 80.49         | 4.58         |
|          | Tamilnadu     | 5940                    | 7707                     | 1766.16       | 22.92        |
|          | Pondicherry   | 185                     | 187                      | 2.01          | 1.08         |
| S.Region | 19955         | 23599                   | 3643.76                  | 15.44         |              |
| May-12   | Andhrapradesh | 7447                    | 8272                     | 825.27        | 9.98         |
|          | Karnataka     | 4920                    | 5511                     | 591.57        | 10.73        |
|          | Kerala        | 1792                    | 1872                     | 79.94         | 4.27         |
|          | Tamilnadu     | 6649                    | 7605                     | 955.93        | 12.57        |
|          | Pondicherry   | 198                     | 201                      | 2.25          | 1.12         |
| S.Region | 21006         | 23461                   | 2454.96                  | 10.46         |              |
| Jun-12   | Andhrapradesh | 6612                    | 7680                     | 1067.48       | 13.90        |
|          | Karnataka     | 4801                    | 5432                     | 631.62        | 11.63        |
|          | Kerala        | 1638                    | 1676                     | 38.53         | 2.30         |
|          | Tamilnadu     | 6893                    | 7928                     | 1034.40       | 13.05        |
|          | Pondicherry   | 191                     | 195                      | 3.60          | 1.85         |
| S.Region | 20135         | 22911                   | 2775.63                  | 12.11         |              |

**2. QUALITY OF SERVICE**

**a) Frequency Profile (% time)**

| Month  | <48.5Hz | 48.5 - 49 | 49 - 49.5 | 49.5 - 50.2 | >50.2 |
|--------|---------|-----------|-----------|-------------|-------|
| Apr-12 | 0.00    | 0.09      | 7.71      | 91.28       | 0.93  |
| May-12 | 0.00    | 0.02      | 5.59      | 94.01       | 0.38  |
| Jun-12 | 0.00    | 0.02      | 7.81      | 91.03       | 1.14  |

**b) Voltage Profile**

| Month  | Ramagundam |         | Hyderabad |         | Bangalore |         | Madras  |         | Neyveli |         |
|--------|------------|---------|-----------|---------|-----------|---------|---------|---------|---------|---------|
|        | Max(kV)    | Min(kV) | Max(kV)   | Min(kV) | Max(kV)   | Min(kV) | Max(kV) | Min(kV) | Max(kV) | Min(kV) |
| Apr-12 | 416        | 398     | 421       | 393     | 417       | 373     | 415     | 375     | 416     | 394     |
| May-12 | 415        | 400     | 419       | 394     | 417       | 372     | 414     | 364     | 415     | 391     |
| Jun-12 | 424        | 403     | 428       | 398     | 416       | 379     | 411     | 360     | 414     | 390     |

**3. INTER-REGIONAL EXCHANGES(PHYSICAL) in MU**

| Month  | Bhadravati BTB |                | Gazuwaka BTB |                | Talcher-Kolar Bipole |                |
|--------|----------------|----------------|--------------|----------------|----------------------|----------------|
|        | Import to SR   | Export from SR | Import to SR | Export from SR | Import to SR         | Export from SR |
| Apr-12 | 564.51         | 0.00           | 157.65       | 1.64           | 1571.43              | 0.00           |
| May-12 | 542.48         | 0.00           | 108.00       | 1.16           | 1605.35              | 0.00           |
| Jun-12 | 586.83         | 0.00           | 195.28       | 2.83           | 1422.58              | 0.00           |

**4. SCHEDULE Vs ACUAL DRAWAL BY STATES**

| Month  | State/UT  | Schedule (MU) | Drawal (MU) | OD(+)/UD(-) |
|--------|-----------|---------------|-------------|-------------|
| Apr-12 | APTRANSCO | 1823          | 1941        | 117.80      |
|        | KPTCL     | 1090          | 1116        | 25.98       |
|        | KSEB      | 886           | 947         | 60.93       |
|        | TNEB      | 1881          | 1977        | 95.94       |
|        | PONDY     | 245           | 187         | -58.14      |
|        | GOA       | 64            | 61          | -2.59       |
| May-12 | APTRANSCO | 1756          | 1879        | 122.63      |
|        | KPTCL     | 1100          | 1097        | -2.78       |
|        | KSEB      | 935           | 1065        | 129.84      |
|        | TNEB      | 1893          | 1909        | 16.60       |
|        | PONDY     | 242           | 198         | -43.75      |
|        | GOA       | 54            | 48          | -5.95       |
| Jun-12 | APTRANSCO | 1543          | 1649        | 105.17      |
|        | KPTCL     | 1076          | 1113        | 37.01       |
|        | KSEB      | 991           | 1083        | 92.53       |
|        | TNEB      | 1584          | 1547        | -36.95      |
|        | PONDY     | 212           | 191         | -20.52      |
|        | GOA       | 49            | 46          | -2.86       |

**5. SUMMARY REPORT**

**1) IMPORTANT EVENTS**

**a) COMMISSIONING OF NEW GENERATING UNITS**

| SL.NO. | STATE/ISGS     | STATION NAME            | CAPACITY (MW) | TYPE  | DATE       |
|--------|----------------|-------------------------|---------------|-------|------------|
| 1      | ANDHRA PRADESH | SOLAR                   | 8.750         | SOLAR | 30-04-2012 |
| 2      | TAMIL NADU     | TIRUNELVELI & UDUMALPET | 26.950        | WIND  | 30-04-2012 |
| 3      | TAMIL NADU     | TIRUNELVELI & UDUMALPET | 27.750        | WIND  | 31-05-2012 |
| 4      | TAMIL NADU     | TIRUNELVELI & UDUMALPET | 30.150        | WIND  | 30-06-2012 |
| 5      | KARNATAKA      | IPP                     | 116.500       | WIND  | 30-06-2012 |
| 6      | KARNATAKA      | BELAKAWADI              | 5.000         | SOLAR | 25-06-2012 |

**b) COMMISSIONING OF NEW TRANSMISSION LINES**

| SL.NO. | CONSTITUENT | LINE NAME                                       | KV  | LENGTH | DATE       |
|--------|-------------|---|-----|--------|------------|
| 1      | APTRANSCO   | LILO OF RAMAGUNDAM - DICHIPALLY LINE AT MEDARAM | 220 | 9.420  | 21-05-2012 |
| 2      | APTRANSCO   | LILO OF RAMAGUNDAM - NIRMAL LINE AT VEMNUR      | 220 | 2.000  | 01-05-2012 |
| 3      | TANTRANSCO  | OTHAKALMANDAPAM - PALLADAM 230 KV SS            | 230 | 2.000  | 27-06-2011 |

**c) COMMISSIONING OF NEW SUBSTATIONS**

| SL.NO. | CONSTITUENT | STATION NAME            | KV RATIO | CAPACITY (MVA) | DATE       |
|--------|-------------|-------------------------|----------|----------------|------------|
| 1      | APTRANSCO   | GHANAPUR (AUGMENTATION) | 220/132  | 60             | 27-04-2012 |
| 2      | APTRANSCO   | MEDARAM - 1             | 220/11   | 50             | 21-05-2012 |
| 3      | APTRANSCO   | MEDARAM - 2             | 220/11   | 50             | 21-05-2012 |
| 4      | APTRANSCO   | VEMNUR - 1              | 220/11   | 50             | 04-05-2012 |
| 5      | APTRANSCO   | VEMNUR - 2              | 220/11   | 50             | 04-05-2012 |
| 6      | APTRANSCO   | MALKARAM - 2            | 220/132  | 100            | 25-05-2012 |
| 7      | APTRANSCO   | SHADNAGAR - 3           | 220/132  | 100            | 25-05-2012 |

**d) COMMISSIONING OF NEW LINE / BUS REACTORS**

| SL.NO. | CONSTITUENT | STATION NAME                                | BUS/LINE | CAPACITY (MVAR) | DATE       |
|--------|-------------|---|----------|-----------------|------------|
| 1      | APTRANSCO   | KALPAKKA # 3                                | BUS      | 63              | 24-04-2012 |
| 2      | APTRANSCO   | MAMIDIPALLY-KHAMMAM - 1 LINE AT MAMIDIPALLY | LINE     | 63              | 09-05-2012 |

**d) Major problem/constraints affecting Grid operation including major Grid disturbances**

i) Grid Separations **NIL**

ii) Grid Disturbances **NIL**

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