

Ref. No. RA&SP/NEPRA/071/ 282

Dated: October 21, 2014

The Registrar  
National Electric Power Regulatory Authority  
NEPRA Office Tower, Ataturk Avenue, G-5/1  
Islamabad

Subject: **MONTHLY FUEL COST ADJUSTMENT (FCA) DUE TO VARIATION IN FUEL AND POWER PURCHASE PRICE FOR THE MONTH OF SEPTEMBER 2014**

Dear Sir

This is with reference to fuel cost adjustment based on units sent out for the month of September 2014, as per tariff determination of 23<sup>rd</sup> December 2009.

**Required Monthly Adjustment:**

The submission is based on the original invoice of NTDC for the month of Sep-14 and the units sent out on Gas and Furnace oil at Bin Qasim Power Station haven been worked out in the ratio of actual units generated on Gas & F.Oil at BQPS-I. It may please be noted that the price of Gas is taken without GID-Cess as per the order of Sindh High Court, Suit # 2013 of 2014 dated 21.10.2014 (copy attached).

The summarized position is as under;

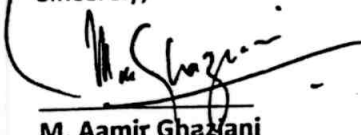
| DESCRIPTION                    | September-2014<br>(Over Jun-14) |           |
|--------------------------------|---------------------------------|-----------|
|                                | (Mill. Rs.)                     | (Ps./kWh) |
| Fuel Price Variation           | 47.367                          | 3.193     |
| Power Purchase Price Variation | (229.842)                       | (15.492)  |
| Total Fuel Costs Adjustment    | (182.475)                       | (12.300)  |

**Economic Dispatch Order**

Further, KE dispatches as per Economic Merit Order from its own generating units (with the available fuel resources) and import from external sources. It is also certified that the cost of fuel and power purchase claimed does not include any amount of late payment surcharge/ markup/ interest. All the requisite details including generating statistic sheets and invoices are attached.

Furthermore, we reiterate our earlier submission Ref.: GM(RA)/NEPRA/2014/274 dated: 03-Oct-14, regarding approval of pending Heat Rate results.

Sincerely,

  
M. Aamir Ghazani  
Director (Finance & Regulations)

Encl.

**Work Sheet- Generation Fuel Cost Variation**

| DESCRIPTION |                                                       | Jun-14           | Jul-14           | Aug-14           | Sep-14           |
|-------------|-------------------------------------------------------|------------------|------------------|------------------|------------------|
| <b>1</b>    | <b><u>UNITS SENT OUT - KE</u></b>                     |                  |                  |                  |                  |
|             | <b><u>1a UNITS SENT OUT ON GAS</u></b>                |                  |                  |                  |                  |
| i           | Bin Qasim Mill kWh                                    | 191.227          | 202.865          | 216.924          | 160.858          |
| ii          | Bin Qasim II - CCPP Mill kWh                          | 316.904          | 334.612          | 322.322          | 328.592          |
| iii         | Korangi Thermal Mill kWh                              | (0.073)          | (0.063)          | (0.069)          | (0.074)          |
| iv          | Korangi Gas 2 Mill kWh                                | 52.799           | 57.280           | 51.041           | 48.117           |
| v           | Site Gas 2 Mill kWh                                   | 23.852           | 34.702           | 26.705           | 18.264           |
| vi          | Korangi combined Mill kWh                             | 83.430           | 78.473           | 83.191           | 79.515           |
|             | Total (i to viii) Mill kWh                            | <b>668.139</b>   | <b>707.868</b>   | <b>700.113</b>   | <b>635.272</b>   |
|             | <b><u>1b UNITS SENT OUT ON F. OIL</u></b>             |                  |                  |                  |                  |
| i           | Bin Qasim Mill kWh                                    | 271.708          | 259.422          | 163.234          | 212.768          |
|             | Total (i to viii) Mill kWh                            | <b>271.708</b>   | <b>259.422</b>   | <b>163.234</b>   | <b>212.768</b>   |
|             | <b><u>1c TOTAL UNITS SENT OUT (1 + 2)</u></b>         |                  |                  |                  |                  |
| i           | Bin Qasim Mill kWh                                    | 462.935          | 462.287          | 380.159          | 373.626          |
| ii          | Bin Qasim II - CCPP Mill kWh                          | 316.904          | 334.612          | 322.322          | 328.592          |
| iii         | Korangi Thermal Mill kWh                              | (0.073)          | (0.063)          | (0.069)          | (0.074)          |
| iv          | Korangi Gas 2 Mill kWh                                | 52.799           | 57.280           | 51.041           | 48.117           |
| v           | Site Gas 2 Mill kWh                                   | 23.852           | 34.702           | 26.705           | 18.264           |
| vi          | Korangi combined Mill kWh                             | 83.430           | 78.473           | 83.191           | 79.515           |
|             | Total (i to vii) Mill kWh                             | <b>939.847</b>   | <b>967.290</b>   | <b>863.347</b>   | <b>848.040</b>   |
| <b>2</b>    | <b><u>HEAT RATE AT BUS BAR</u></b>                    |                  |                  |                  |                  |
|             | <b><u>2a Heat Rate of GAS - of item 1</u></b>         |                  |                  |                  |                  |
| i           | Bin Qasim Btu/kWh                                     | 10,650           | 10,650           | 10,650           | 10,650           |
| ii          | Bin Qasim II - CCPP Btu/kWh                           | 8,605            | 8,605            | 8,605            | 8,605            |
| iv          | Korangi Gas 2 Btu/kWh                                 | 9,500            | 9,500            | 9,500            | 9,500            |
| v           | Site Gas 2 Btu/kWh                                    | 9,500            | 9,500            | 9,500            | 9,500            |
| vi          | Korangi combined Btu/kWh                              | 9,110            | 9,110            | 9,110            | 9,110            |
|             | <b><u>2b CONVERSION FACTOR F. OIL - of item 2</u></b> |                  |                  |                  |                  |
| i           | Bin Qasim Kg/kWh                                      | <b>0.264</b>     | <b>0.264</b>     | <b>0.264</b>     | <b>0.264</b>     |
| ii          | Korangi Thermal Kg/kWh                                | <b>0.340</b>     | <b>0.340</b>     | <b>0.340</b>     | <b>0.340</b>     |
| <b>3</b>    | <b><u>FUEL PRICES</u></b>                             |                  |                  |                  | 588.230          |
| a.          | Fuel Prices- Gas (Rs/MMBTu) Rs/MMBTu                  | <b>515.23</b>    | <b>488.23</b>    | <b>488.23</b>    | <b>488.23</b>    |
| b.          | Fuel Price -F.O (Rs/Kg) Rs/Kg                         | <b>64,718</b>    | <b>64,964</b>    | <b>64,359</b>    | <b>68,383</b>    |
| <b>4</b>    | <b><u>COST OF FUEL</u></b>                            |                  |                  |                  |                  |
|             | <b><u>4a COST OF GAS</u></b>                          |                  |                  |                  |                  |
| i           | Bin Qasim Mill Rs                                     | 1,049.303        | 1,054.824        | 1,127.930        | 836.405          |
| ii          | Bin Qasim II - CCPP Mill Rs                           | 1,405.011        | 1,405.778        | 1,354.145        | 1,380.487        |
| iii         | Korangi Thermal Mill Rs                               | -                | -                | -                | -                |
| iv          | Korangi Gas 2 Mill Rs                                 | 258.435          | 265.674          | 236.738          | 223.174          |
| v           | Site Gas 2 Mill Rs                                    | 116.747          | 160.954          | 123.860          | 84.711           |
| vi          | Korangi combined Mill Rs                              | 391.599          | 349.029          | 370.013          | 353.666          |
|             | Total (i to vii) Mill Rs                              | <b>3,221.094</b> | <b>3,236.260</b> | <b>3,212.687</b> | <b>2,878.443</b> |
|             | <b><u>4b COST OF FURNACE OIL</u></b>                  |                  |                  |                  |                  |
| i           | Bin Qasim Mill Rs                                     | 4,642.294        | 4,449.257        | 2,773.490        | 3,841.129        |
|             | Total (i to vii) Mill Rs                              | <b>4,642.294</b> | <b>4,449.257</b> | <b>2,773.490</b> | <b>3,841.129</b> |

**Work Sheet- Generation Fuel Cost Variation**

| DESCRIPTION                                                                   |          | Jun-14           | Jul-14           | Aug-14           | Sep-14           |
|-------------------------------------------------------------------------------|----------|------------------|------------------|------------------|------------------|
| <b>4c TOTAL COST OF FUEL</b>                                                  |          |                  |                  |                  |                  |
| i Bin Qasim                                                                   | Mill Rs  | 5,691.597        | 5,504.081        | 3,901.420        | 4,677.535        |
| ii Bin Qasim II - CCPP                                                        | Mill Rs  | 1,405.011        | 1,405.778        | 1,354.145        | 1,380.487        |
| iv Korangi Gas 2                                                              | Mill Rs  | 258.435          | 265.674          | 236.738          | 223.174          |
| v Site Gas 2                                                                  | Mill Rs  | 116.747          | 160.954          | 123.860          | 84.711           |
| vi Korangi combined                                                           | Mill Rs  | 391.599          | 349.029          | 370.013          | 353.666          |
| Total                                                                         | Mill Rs  | <b>7,863.388</b> | <b>7,685.517</b> | <b>5,986.177</b> | <b>6,719.573</b> |
| <b>5 COST OF FUEL PER KWH</b>                                                 |          |                  |                  |                  |                  |
| a Bin Qasim                                                                   | Rs/kWh   | 12.295           | 11.906           | 10.263           | 12.519           |
| b Bin Qasim II - CCPP                                                         | Rs/kWh   | 4.434            | 4.201            | 4.201            | 4.201            |
| d Korangi Gas 2                                                               | Rs/kWh   | 4.895            | 4.638            | 4.638            | 4.638            |
| e Site Gas 2                                                                  | Rs/kWh   | 4.895            | 4.638            | 4.638            | 4.638            |
| f Korangi combined                                                            | Rs/kWh   | 4.694            | 4.448            | 4.448            | 4.448            |
| <b>6 INCREASE/DECREASE IN COST OF FUEL PER KWH</b>                            |          |                  |                  |                  |                  |
| a Bin Qasim                                                                   | Rs/kWh   | 0.207            | (0.388)          | (2.032)          | 0.225            |
| b Bin Qasim II - CCPP                                                         | Rs/kWh   | -                | -                | -                | -                |
| d Korangi Gas 2                                                               | Rs/kWh   | -                | (0.257)          | (0.257)          | (0.257)          |
| e Site Gas 2                                                                  | Rs/kWh   | -                | (0.256)          | (0.257)          | (0.257)          |
| f Korangi combined                                                            | Rs/kWh   | -                | (0.246)          | (0.246)          | (0.246)          |
| <b>7 INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH</b>                 |          |                  |                  |                  |                  |
| a Bin Qasim                                                                   | Mill Rs  | 95.638           | (179.548)        | (772.475)        | 83.952           |
| b Bin Qasim II - CCPP                                                         | Mill Rs  | -                | -                | -                | -                |
| d Korangi Gas 2                                                               | Mill Rs  | -                | (14.692)         | (13.092)         | (12.342)         |
| e Site Gas 2                                                                  | Mill Rs  | -                | (8.901)          | (6.850)          | (4.685)          |
| f Korangi combined                                                            | Mill Rs  | -                | (19.302)         | (20.462)         | (19.558)         |
| Total (a to g)                                                                | Mill Rs  | <b>95.638</b>    | <b>(222.443)</b> | <b>(812.879)</b> | <b>47.367</b>    |
| <b>8 INCREASE / DECREASE IN TARIFF<br/>TO BE PASSED IN THE MONTHLY BILLS</b>  |          |                  |                  |                  |                  |
| a Fuel price variation (item 7-h)                                             | Mill Rs  | 95.638           | (222.443)        | (812.879)        | 47.367           |
| b Units Sent Out - KE                                                         | Mill kWh | 939.847          | 967.290          | 863.347          | 848.040          |
| c Power Purchase                                                              | Mill kWh | 615.581          | 624.555          | 647.786          | 635.549          |
| d Total Units Sent Out (b + c)                                                | Mill kWh | 1,555.428        | 1,591.845        | 1,511.133        | 1,483.589        |
| e Increase / Decrease in Tariff (8a / 8d x 100)                               |          |                  |                  |                  |                  |
| To be passed on to the consumers - FSA                                        | Ps/kWh   | <b>6.149</b>     | <b>(13.974)</b>  | <b>(53.793)</b>  | <b>3.193</b>     |
| <b>9 INCREASE / DECREASE IN REVENUE</b>                                       |          |                  |                  |                  |                  |
| a Units Sold                                                                  | Mill kWh | 1,291.005        | 1,353.068        | 1,284.463        | 1,261.051        |
| b Increase / Decrease in Tariff                                               | Ps/kWh   | 6.149            | (13.974)         | (53.793)         | 3.193            |
| c Increase / Decrease in Revenue (9a / 9b x 100)                              | Mill Rs  | 79.380           | (189.077)        | (690.947)        | 40.262           |
| d Accumulated increase / decrease in revenue                                  | Mill Rs  | <b>79.380</b>    | <b>(189.077)</b> | <b>(880.024)</b> | <b>(839.762)</b> |
| d Unrecovered Cost due to T&D loss                                            |          | <b>16.259</b>    | <b>(33.367)</b>  | <b>(121.932)</b> | <b>7.105</b>     |
| <b>10 INCREASE / DECREASE IN TARIFF<br/>TO BE ADJUSTED ON QUARTERLY BASIS</b> |          |                  |                  |                  |                  |
| a Fuel price variation - item 8a                                              | Mill Rs  | 95.638           | (222.443)        | (812.879)        | 47.367           |
| b Units Sent Out - KE                                                         | Mill kWh | 939.847          | 967.290          | 863.347          | 848.040          |
| c Power Purchase                                                              | Mill kWh | 615.581          | 624.555          | 647.786          | 635.549          |
| d Total Units Sent Out                                                        | Mill kWh | 1,555.428        | 1,591.845        | 1,511.133        | 1,483.589        |
| e Trans & Dist Losses                                                         |          | 17%              | 15%              | 15%              | 15%              |
| f Units Sold (10d - 10e)                                                      | Mill kWh | <b>1,291.005</b> | <b>1,353.068</b> | <b>1,284.463</b> | <b>1,261.051</b> |

**Work Sheet- Power Purchase Cost Variation**

| DESCRIPTION                                                                                          |                                               | Jun-14           | Jul-14           | Aug-14           | Sep-14           |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------|------------------|------------------|------------------|
| <b>1 POWER PURCHASES</b>                                                                             |                                               |                  |                  |                  |                  |
| a                                                                                                    | KANUPP Mill kWh                               | -                | 1.458            | 30.991           | 21.958           |
| b                                                                                                    | PASMIC Mill kWh                               | 1.563            | 0.286            | 0.182            | 3.791            |
| c                                                                                                    | TAPAL Mill kWh                                | 75.225           | 78.478           | 74.790           | 74.191           |
| d                                                                                                    | GUL AHMED Mill kWh                            | 75.406           | 70.233           | 66.099           | 68.660           |
| e                                                                                                    | NTDC/WAPDA Mill kWh                           | 448.914          | 459.105          | 461.184          | 452.612          |
| f                                                                                                    | ANOUD POWER Mill kWh                          | 8.287            | 8.670            | 7.311            | 8.038            |
| h                                                                                                    | INT IND (IIL) Mill kWh                        | 6.186            | 6.324            | 7.228            | 6.298            |
| m                                                                                                    | TOTAL Mill kWh                                | <b>615.581</b>   | <b>624.555</b>   | <b>647.786</b>   | <b>635.549</b>   |
| <b>2 COST OF POWER PURCHASE - FUEL COST</b>                                                          |                                               |                  |                  |                  |                  |
| a                                                                                                    | KANUPP Mill Rs                                | -                | 13.281           | 231.2099         | 185.216          |
| b                                                                                                    | PASMIC Mill Rs                                | 13.862           | 2.608            | 1.3546           | 31.980           |
| c                                                                                                    | TAPAL Mill Rs                                 | 1,070.773        | 1,134.494        | 1,052.2285       | 1,046.904        |
| d                                                                                                    | GUL AHMED Mill Rs                             | 1,121.929        | 1,054.943        | 983.4934         | 1,057.092        |
| e                                                                                                    | NTDC/WAPDA Mill Rs                            | 3,336.912        | 3,552.199        | 3,233.1618       | 3,179.690        |
| f                                                                                                    | ANOUD POWER Mill Rs                           | 91.808           | 96.202           | 80.2433          | 88.713           |
| h                                                                                                    | INT IND (IIL) Mill Rs                         | 35.430           | 36.166           | 40.3609          | 35.226           |
| m                                                                                                    | TOTAL Mill Rs                                 | <b>5,670.715</b> | <b>5,889.893</b> | <b>5,622.052</b> | <b>5,624.821</b> |
| <b>3 COST OF POWER PURCHASE- Fuel Cost/kWh</b>                                                       |                                               |                  |                  |                  |                  |
| a                                                                                                    | KANUPP Rs/kWh                                 | -                | 9.107            | 7.460            | 8.435            |
| b                                                                                                    | PASMIC Rs/kWh                                 | 8.871            | 9.107            | 7.460            | 8.435            |
| c                                                                                                    | TAPAL Rs/kWh                                  | 14.234           | 14.456           | 14.069           | 14.111           |
| d                                                                                                    | GUL AHMED Rs/kWh                              | 14.878           | 15.021           | 14.879           | 15.396           |
| e                                                                                                    | NTDC/WAPDA Rs/kWh                             | 7.433            | 7.737            | 7.011            | 7.025            |
| f                                                                                                    | ANOUD POWER Rs/kWh                            | 11.078           | 11.096           | 10.975           | 11.036           |
| h                                                                                                    | INT IND (IIL) Rs/kWh                          | 5.728            | 5.719            | 5.584            | 5.593            |
| m                                                                                                    | AVERAGE Rs/kWh                                | <b>9.212</b>     | <b>9.431</b>     | <b>8.679</b>     | <b>8.850</b>     |
| <b>4 INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS</b> |                                               |                  |                  |                  |                  |
| a                                                                                                    | Average Monthly Fuel cost of Rs/kWh           | 9.212            | 9.431            | 8.679            | 8.850            |
| b                                                                                                    | Reference Rate - Previous Mont Rs/kWh         | 10.143           | 9.212            | 9.212            | 9.212            |
| c                                                                                                    | Increase / Decrease in Average Rs/kWh         | <b>(0.931)</b>   | <b>0.219</b>     | <b>(0.533)</b>   | <b>(0.362)</b>   |
| d                                                                                                    | Total Power Purchase (Item Mill kWh           | 615.581          | 624.555          | 647.786          | 635.549          |
| e                                                                                                    | Increase / Decrease in Fuel Cost Mill Rs      | <b>(573.324)</b> | <b>136.514</b>   | <b>(345.332)</b> | <b>(229.842)</b> |
| <b>5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</b>                             |                                               |                  |                  |                  |                  |
| a                                                                                                    | Fuel price variation in cost of power purch   | (573.324)        | 136.514          | (345.332)        | (229.842)        |
| b                                                                                                    | Units Sent Out - KE Mill kWh                  | 939.847          | 967.290          | 863.347          | 848.040          |
| c                                                                                                    | Power Purchase Mill kWh                       | 615.581          | 624.555          | 647.786          | 635.549          |
| d                                                                                                    | Total Units Sent Out (b + c) Mill kWh         | <b>1,555.428</b> | <b>1,591.845</b> | <b>1,511.133</b> | <b>1,483.589</b> |
| e                                                                                                    | Increase / Decrease in Tariff (5a / 5d x 100) |                  |                  |                  |                  |
|                                                                                                      | To be passed on to the consurr Ps/kWh         | <b>(36.860)</b>  | <b>8.576</b>     | <b>(22.853)</b>  | <b>(15.492)</b>  |
| <b>6 INCREASE / DECREASE IN REVENUE</b>                                                              |                                               |                  |                  |                  |                  |
| a                                                                                                    | Units Sold Mill kWh                           | 1,291.005        | 1,353.068        | 1,284.463        | 1,261.051        |
| b                                                                                                    | Increase / Decrease in Tariff (it Ps/kWh      | (36.860)         | 8.576            | (22.853)         | (15.492)         |
| c                                                                                                    | Increase / Decrease in Revenue Mill Rs        | (475.859)        | 116.037          | (293.532)        | (195.366)        |
| d                                                                                                    | Accumulated increase / decrea Mill Rs         |                  | <b>116.037</b>   | <b>(177.495)</b> | <b>(372.861)</b> |

**Work Sheet- Power Purchase Cost Variation**

| DESCRIPTION                                            |                                 |         | Jun-14           | Jul-14           | Aug-14           | Sep-14           |
|--------------------------------------------------------|---------------------------------|---------|------------------|------------------|------------------|------------------|
| <b>7 O&amp;M PAYMENT</b>                               |                                 |         |                  |                  |                  |                  |
| a                                                      | KANUPP                          | Mill Rs | -                | 1.219            | 25.916           | 18.362           |
| b                                                      | PASMIC                          | Mill Rs | 4.283            | 0.785            | 0.498            | 10.393           |
| c                                                      | TAPAL                           | Mill Rs | 77.918           | 78.297           | 74.618           | 74.020           |
| d                                                      | GUL AHMED                       | Mill Rs | 45.598           | 40.904           | 38.496           | 39.988           |
| e                                                      | NTDC/WAPDA                      | Mill Rs | 827.064          | 825.757          | 730.897          | 823.486          |
| f                                                      | ANOUD POWER                     | Mill Rs | 15.053           | 15.748           | 13.280           | 14.600           |
| h                                                      | INT IND (IIL)                   | Mill Rs | 9.507            | 9.807            | 11.308           | 9.762            |
| m                                                      | TOTAL                           | Mill Rs | <b>979.423</b>   | <b>972.517</b>   | <b>895.012</b>   | <b>990.611</b>   |
| <b>8 O&amp;M PAYMENT (Rs/kWh)</b>                      |                                 |         |                  |                  |                  |                  |
| a                                                      | KANUPP                          | Rs/kWh  | -                | 0.836            | 0.836            | 0.836            |
| b                                                      | PASMIC                          | Rs/kWh  | 2.741            | 2.741            | 2.741            | 2.741            |
| c                                                      | TAPAL                           | Rs/kWh  | 1.036            | 0.998            | 0.998            | 0.998            |
| d                                                      | GUL AHMED                       | Rs/kWh  | 0.605            | 0.582            | 0.582            | 0.582            |
| e                                                      | NTDC/WAPDA                      | Rs/kWh  | 1.842            | 1.799            | 1.585            | 1.819            |
| f                                                      | ANOUD POWER                     | Rs/kWh  | 1.816            | 1.816            | 1.816            | 1.816            |
| h                                                      | INT IND (IIL)                   | Rs/kWh  | 1.537            | 1.551            | 1.564            | 1.550            |
| m                                                      | TOTAL                           | Rs/kWh  | 1.591            | 1.557            | 1.382            | 1.559            |
| n                                                      | Variation over Base Rate        | Rs/kWh  | (0.195)          | (0.034)          | (0.209)          | (0.032)          |
| o                                                      | Variation over Base Rate (8a*1r | Mill Rs | <b>(120.234)</b> | <b>(21.183)</b>  | <b>(135.650)</b> | <b>(20.583)</b>  |
| <b>9 CAPACITY PAYMENT</b>                              |                                 |         |                  |                  |                  |                  |
| c                                                      | TAPAL                           | Mill Rs | 138.444          | 133.455          | 133.455          | 133.455          |
| d                                                      | GUL AHMED                       | Mill Rs | 127.775          | 123.121          | 123.121          | 123.121          |
| m                                                      | TOTAL                           | Mill Rs | <b>266.219</b>   | <b>256.576</b>   | <b>256.576</b>   | <b>256.576</b>   |
| <b>10 CAPACITY PAYMENT (Rs/ Kwh)</b>                   |                                 |         |                  |                  |                  |                  |
| c                                                      | TAPAL                           | Rs/kWh  | 1.840            | 1.701            | 1.784            | 1.799            |
| d                                                      | GUL AHMED                       | Rs/kWh  | 1.694            | 1.753            | 1.863            | 1.793            |
| m                                                      | TOTAL                           | Rs/kWh  | 0.432            | 0.411            | 0.396            | 0.404            |
| n                                                      | Variation over Base Rate        | Rs/kWh  | (0.019)          | (0.022)          | (0.036)          | (0.029)          |
| o                                                      | Variation over Base Rate (10n*: | Mill Rs | <b>(11.442)</b>  | <b>(13.524)</b>  | <b>(23.571)</b>  | <b>(18.279)</b>  |
| <b>11 TOTAL O&amp;M &amp; CAPACITY PAYMENT</b>         |                                 |         |                  |                  |                  |                  |
| a                                                      | KANUPP                          | Mill Rs | -                | 1.219            | 25.916           | 18.362           |
| b                                                      | PASMIC                          | Mill Rs | 4.283            | 0.785            | 0.498            | 10.393           |
| c                                                      | TAPAL                           | Mill Rs | 216.363          | 211.752          | 208.073          | 207.475          |
| d                                                      | GUL AHMED                       | Mill Rs | 173.373          | 164.025          | 161.617          | 163.109          |
| e                                                      | NTDC/WAPDA                      | Mill Rs | 827.064          | 825.757          | 730.897          | 823.486          |
| f                                                      | ANOUD POWER                     | Mill Rs | 15.053           | 15.748           | 13.280           | 14.600           |
| h                                                      | INT IND (IIL)                   | Mill Rs | 9.507            | 9.807            | 11.308           | 9.762            |
| m                                                      | TOTAL                           | Mill Rs | <b>1,245.641</b> | <b>1,229.093</b> | <b>1,151.588</b> | <b>1,247.187</b> |
| <b>12 TOTAL COST WITH O&amp;M AND CAPACITY PAYMENT</b> |                                 |         |                  |                  |                  |                  |
| a                                                      | KANUPP                          | Mill Rs | -                | 14.501           | 257.126          | 203.578          |
| b                                                      | PASMIC                          | Mill Rs | 18.145           | 3.393            | 1.852            | 42.372           |
| c                                                      | TAPAL                           | Mill Rs | 1,287.136        | 1,346.246        | 1,260.302        | 1,254.379        |
| d                                                      | GUL AHMED                       | Mill Rs | 1,295.302        | 1,218.968        | 1,145.110        | 1,220.201        |
| e                                                      | NTDC/WAPDA                      | Mill Rs | 4,163.976        | 4,377.955        | 3,964.059        | 4,003.176        |
| f                                                      | ANOUD POWER                     | Mill Rs | 106.860          | 111.950          | 93.523           | 103.313          |
| h                                                      | INT IND (IIL)                   | Mill Rs | 44.937           | 45.973           | 51.669           | 44.988           |
| m                                                      | TOTAL                           | Mill Rs | <b>6,916.356</b> | <b>7,118.986</b> | <b>6,773.640</b> | <b>6,872.007</b> |

**Work Sheet- Power Purchase Cost Variation**

| DESCRIPTION                                                  |                                            | Jun-14           | Jul-14           | Aug-14           | Sep-14           |
|--------------------------------------------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|
| <b>13 COST OF POWER PURCHASE- TOTAL Cost/kWh</b>             |                                            |                  |                  |                  |                  |
| a                                                            | KANUPP Rs/kWh                              | -                | 9.943            | 8.297            | 9.271            |
| b                                                            | PASMIC Rs/kWh                              | 11.612           | 11.848           | 10.202           | 11.176           |
| c                                                            | TAPAL Rs/kWh                               | 17.110           | 17.155           | 16.851           | 16.908           |
| d                                                            | GUL AHMED Rs/kWh                           | 17.178           | 17.356           | 17.324           | 17.772           |
| e                                                            | NTDC/WAPDA Rs/kWh                          | 9.276            | 9.536            | 8.595            | 8.845            |
| f                                                            | ANOUD POWER Rs/kWh                         | 12.894           | 12.913           | 12.791           | 12.853           |
| h                                                            | INT IND (IIL) Rs/kWh                       | 7.265            | 7.270            | 7.148            | 7.143            |
| m                                                            | AVERAGE Rs/kWh                             | <b>11.235</b>    | <b>11.399</b>    | <b>10.457</b>    | <b>10.813</b>    |
| <b>14 INCREASE / DECREASE IN POWER PURCHASE COST - TOTAL</b> |                                            |                  |                  |                  |                  |
| a                                                            | Average Monthly cost of Pow Rs/kWh         | 11.235           | 11.399           | 10.457           | 10.813           |
| b                                                            | Reference Rate - Previous Mont Rs/kWh      | 12.595           | 11.235           | 11.235           | 11.235           |
| c                                                            | Increase / Decrease in Average Rs/kWh      | (1.360)          | 0.163            | (0.779)          | (0.423)          |
| d                                                            | Total Power Purchase (Item Mill kWh        | 615.581          | 624.555          | 647.786          | 635.549          |
| e                                                            | Increase / Decrease in Total Cos Mill Rs   | <b>(837.188)</b> | <b>101.807</b>   | <b>(504.553)</b> | <b>(268.703)</b> |
| f                                                            | Adjustment in cost of KANUPP               |                  |                  |                  |                  |
| g                                                            | Unrecovered cost Previous Quarter          |                  |                  |                  |                  |
| h                                                            | Total (e+f+g)                              | (837.188)        | 101.807          | (504.553)        | (268.703)        |
| <b>15 INCREASE / DECREASE IN TARIFF</b>                      |                                            |                  |                  |                  |                  |
| <b>TO BE ADJUSTED ON QUARTERLY BASIS</b>                     |                                            |                  |                  |                  |                  |
| a                                                            | Total price variation in cost of p Mill Rs | (837.188)        | 101.807          | (504.553)        | (268.703)        |
| b                                                            | KE - Units Sent Out Mill kWh               | 939.847          | 967.290          | 863.347          | 848.040          |
| c                                                            | Power Purchase Mill kWh                    | 615.581          | 624.555          | 647.786          | 635.549          |
| d                                                            | Total Units Sent Out (b+c) Mill kWh        | 1,555.428        | 1,591.845        | 1,511.133        | 1,483.589        |
| e                                                            | Trans & Dist Losses                        | 17.0%            | 15.0%            | 15.0%            | 15.0%            |
| f                                                            | Units Sold (15d-15e) Mill kWh              | <b>1,291.005</b> | <b>1,353.068</b> | <b>1,284.463</b> | <b>1,261.051</b> |
| g                                                            | Increase / Decrease in Tariff              |                  |                  |                  |                  |
| h                                                            | Power Purchase (15a/15f) Ps/kWh            | <b>(64.848)</b>  | <b>7.524</b>     | <b>(39.281)</b>  | <b>(21.308)</b>  |

Sep-14

| Description                                 | MMBTU<br>(As per Bills) | Cubic Meters       | GCV AS<br>PER<br>BILLS | GCV AS PER<br>BTU'S ON<br>BILLS | MMCF              | MMCFD         | BTU/CF              | MMBTUs                | Amount<br>excluding<br>Meter rent | GID-CESS Rs.       | Meter rent    | Total Amount of<br>SSGC Bills | Rs/<br>MMBTU  |
|---------------------------------------------|-------------------------|--------------------|------------------------|---------------------------------|-------------------|---------------|---------------------|-----------------------|-----------------------------------|--------------------|---------------|-------------------------------|---------------|
| <b>BIN QASIM</b>                            |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               |                               |               |
| Bin Qasim Power Station (1)                 | 344,163.1236            | 9,645,728          | 1,005.250              | 1,005.25333                     | 342,365           | 11.412        | 12,215.653          | 344,161.98            | 168,030,762                       | 34,416,312         | 2,500         | 202,449,574                   | 488.23        |
| Bin Qasim Power Station (2)                 | 351,441.2051            | 9,849,708          | 1,005.250              | 1,005.25333                     | 348,605           | 11.653        | 12,473.980          | 351,440.04            | 171,594,140                       | 35,144,121         | 2,500         | 206,730,761                   | 488.23        |
| Bin Qasim Power Station (3)                 | 346,441.8147            | 9,709,592          | 1,005.250              | 1,005.25333                     | 344,631           | 11.488        | 12,296.533          | 346,440.67            | 169,143,267                       | 34,644,181         | 2,500         | 203,789,968                   | 488.23        |
| Bin Qasim Power Station (4)                 | 348,197.1460            | 9,758,788          | 1,005.250              | 1,005.25333                     | 346,378           | 11.546        | 12,358.836          | 348,195.99            | 170,000,293                       | 34,819,715         | 2,500         | 204,822,508                   | 488.23        |
| Bin Qasim Power Station (5)                 | -                       | -                  | 1,005.250              | #DIV/0!                         | 354,158           | 11.805        | 12,636.443          | 356,017.24            | 16,463                            | -                  | 2,500         | 18,963                        | #DIV/0!       |
| Bin Qasim Power Station (6)                 | 356,018.4254            | 9,977,992          | 1,005.250              | 1,005.25333                     | 354,158           | 11.805        | 12,636.443          | 356,017.24            | 173,818,876                       | 35,601,843         | 2,500         | 209,423,219                   | 488.23        |
| <b>Total</b>                                | <b>1,746,261.7148</b>   | <b>48,941,808</b>  | <b>1,005.2500</b>      | <b>1,005.25333</b>              | <b>1,737.14</b>   | <b>57.90</b>  | <b>61,981.445</b>   | <b>1,746,255.9250</b> | <b>852,593.821</b>                | <b>174,626.172</b> | <b>15,000</b> | <b>1,027,234,993</b>          | <b>488.24</b> |
| <b>BIN QASIM COMBINED CYCLE POWER PLANT</b> |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               |                               |               |
| Bin Qasim Power Station (7)                 | 474,430.0060            | 13,296,668         | 1,005.250              | 1,005.25333                     | 471,951           | 15.732        | 16,839.318          | 474,428.43            | 231,630,962                       | 47,443,001         | 2,500         | 279,076,463                   | 488.23        |
| Bin Qasim Power Station (8)                 | 543,527.1079            | 15,233,226         | 1,005.250              | 1,005.25333                     | 540,687           | 18.023        | 19,291.836          | 543,525.31            | 285,366,240                       | 54,352,711         | 2,500         | 319,721,451                   | 488.23        |
| Bin Qasim Power Station (9)                 | 555,488.0949            | 15,568,452         | 1,005.250              | 1,005.25333                     | 552,585           | 18.420        | 19,716.377          | 555,486.25            | 271,205,953                       | 55,548,809         | 2,500         | 326,757,262                   | 488.23        |
| Bin Qasim Power Station (10)                | 572,187.0685            | 16,036,748         | 1,005.250              | 1,005.25333                     | 569,207           | 18.974        | 20,309.442          | 572,185.17            | 279,363,775                       | 57,219,707         | 2,500         | 336,583,982                   | 488.23        |
| Bin Qasim Power Station (11)                | 600,980.9565            | 16,843,463         | 1,005.250              | 1,005.25333                     | 597,840           | 19.928        | 21,331.091          | 600,978.96            | 293,416,932                       | 60,098,096         | 2,500         | 353,517,528                   | 488.23        |
| <b>Total</b>                                | <b>2,746,623.2338</b>   | <b>76,978,557</b>  | <b>1,005.250</b>       | <b>1,005.25333</b>              | <b>2,732.2697</b> | <b>91.076</b> | <b>97,488.065</b>   | <b>2,746,614.13</b>   | <b>1,340,983.862</b>              | <b>274,662.324</b> | <b>12,500</b> | <b>1,615,658,686</b>          | <b>488.23</b> |
| <b>KORANGI THERMAL POWER STATION</b>        |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               |                               |               |
| <b>Total</b>                                | -                       | -                  | 1,010.810              | #DIV/0!                         | -                 | -             | -                   | -                     | 16,463                            | -                  | 3,000         | 19,463                        | -             |
| <b>KORANGI TOWN GAS TURBINE-II</b>          |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               |                               |               |
| Korangi Town Gas Turbine                    | 328,126.1310            | 9,661,940          | 956.800                | 956.80333                       | 342,940           | 11.431        | 11,646.438          | 328,124.99            | 160,201,021                       | 32,812,613         | 3,000         | 193,016,634                   | 488.23        |
| Korangi Town Gas Turbine                    | 136,746.7181            | 4,026,618          | 956.800                | 956.80333                       | 142,920           | 4.764         | 4,853.658           | 136,746.24            | 66,763,850                        | 13,674,672         | 2,500         | 80,441,022                    | 488.23        |
| Korangi Town Gas Turbine                    | -                       | -                  | 956.800                | #DIV/0!                         | -                 | -             | -                   | -                     | 16,463                            | -                  | 2,500         | 18,963                        | #DIV/0!       |
| <b>Total</b>                                | <b>464,872.84910</b>    | <b>13,688,558</b>  | <b>954.530</b>         | <b>956.80333</b>                | <b>485,860</b>    | <b>16.195</b> | <b>16,500.096</b>   | <b>464,871.23</b>     | <b>226,981,334</b>                | <b>46,487,285</b>  | <b>8,000</b>  | <b>273,476,619</b>            | <b>488.27</b> |
| <b>SITE GAS TURBINE-II</b>                  |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               |                               |               |
| Site Gas Turbine                            | 100,018.8362            | 3,098,472          | 909.450                | 909.45333                       | 109,977           | 3.666         | 3,550.046           | 100,018.47            | 48,832,196                        | 10,001,884         | 3,000         | 58,837,080                    | 488.23        |
| Site Gas Turbine - 2                        | 81,123.6111             | 2,513,119          | 909.450                | 909.45333                       | 89,200            | 2.973         | 2,879.383           | 81,123.31             | 39,606,981                        | 8,112,361          | 2,500         | 47,721,842                    | 488.23        |
| <b>Total</b>                                | <b>181,142.4473</b>     | <b>5,611,591</b>   | <b>909.450</b>         | <b>909.45333</b>                | <b>199,1773</b>   | <b>6.639</b>  | <b>6,429.430</b>    | <b>181,141.78</b>     | <b>88,439,177</b>                 | <b>18,114,245</b>  | <b>5,500</b>  | <b>106,558,922</b>            | <b>488.23</b> |
| <b>KORANGI COMBINED CYCLE POWER PLANT</b>   |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               |                               |               |
| (KTPS 1)                                    | 356,966.6075            | 9,949,536          | 1,010.810              | 1,010.81333                     | 353,148           | 11.772        | 12,670.098          | 356,965.43            | 174,281,807                       | 35,696,661         | 2,500         | 209,980,968                   | 488.23        |
| (KTPS 2)                                    | 356,744.4439            | 9,946,131          | 1,010.810              | 1,010.53007                     | 353,027           | 11.768        | 12,665.762          | 356,843.27            | 174,222,163                       | 35,684,444         | 2,500         | 209,909,107                   | 488.23        |
| <b>Total</b>                                | <b>713,711.0514</b>     | <b>19,895,667</b>  | <b>1,010.810</b>       | <b>1,010.67173</b>              | <b>706,1749</b>   | <b>23.539</b> | <b>25,335.859</b>   | <b>713,808.70</b>     | <b>348,503,970</b>                | <b>71,381,105</b>  | <b>5,000</b>  | <b>419,890,075</b>            | <b>488.23</b> |
| <b>KESC West Wharf Grid Station</b>         | -                       | -                  | -                      | -                               | -                 | -             | -                   | -                     | 16,463                            | -                  | 2,000         | 18,463                        | -             |
| <b>Total</b>                                | <b>5,852,611.2964</b>   | <b>165,116,181</b> | <b>998.647</b>         | <b>998.63376</b>                | <b>5,860,6183</b> | <b>195.35</b> | <b>207,734.8947</b> | <b>5,852,691.7623</b> | <b>2,867,536,090</b>              | <b>585,271,131</b> | <b>51,000</b> | <b>3,442,857,221</b>          | <b>488.24</b> |
|                                             |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               | <b>GST @17%</b>               |               |
|                                             |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               | <b>585,285,728</b>            |               |
|                                             |                         |                    |                        |                                 |                   |               |                     |                       |                                   |                    |               | <b>4,028,142,949</b>          |               |

**INVOICES**

| Vendor | Inv Date  | Invoice No | Quantity  | Total Cost     | Total GST Amount | Grand Total (BYCO) | Total Financial charges (BYCO) |
|--------|-----------|------------|-----------|----------------|------------------|--------------------|--------------------------------|
| BYCO   | 1-Sep-14  | 500084970  | 981.362   | 66,084,623.00  | 11,234,386       | 78,098,769         | 779,761                        |
| BYCO   | 3-Sep-14  | 500085164  | 691.449   | 46,561,968.00  | 7,915,535        | 55,026,907         | 549,405                        |
| BYCO   | 9-Sep-14  | 500085538  | 4,403.261 | 296,514,275.00 | 50,407,427       | 350,420,401        | 3,498,699                      |
| BYCO   | 10-Sep-14 | 500085541  | 589.520   | 39,698,100.00  | 6,748,677        | 46,915,192         | 468,415                        |
| BYCO   | 13-Sep-14 | 500085800  | 1,316.146 | 88,628,877.00  | 15,066,909       | 104,741,556        | 1,045,770                      |
| BYCO   | 13-Sep-14 | 500085801  | 2,215.254 | 149,174,540.00 | 25,359,672       | 176,294,386        | 1,760,174                      |
| BYCO   | 15-Sep-14 | 500085831  | 526.683   | 35,466,675.00  | 6,029,335        | 41,914,497         | 418,487                        |
| BYCO   | 15-Sep-14 | 500085832  | 1,248.126 | 84,048,430.00  | 14,288,233       | 99,328,387         | 991,723                        |
| BYCO   | 19-Sep-14 | 500086014  | 1,999.341 | 140,307,413.00 | 23,852,260       | 165,832,762        | 1,673,089                      |
| BYCO   | 20-Sep-14 | 500086126  | 2,733.105 | 191,800,645.00 | 32,606,110       | 226,693,872        | 2,287,117                      |
| BYCO   | 21-Sep-14 | 500086127  | 2,694.507 | 189,091,960.00 | 32,145,633       | 223,492,410        | 2,254,817                      |
| BYCO   | 23-Sep-14 | 500086256  | 1,990.738 | 139,703,682.00 | 23,749,626       | 165,119,198        | 1,665,889                      |
| BYCO   | 26-Sep-14 | 500086473  | 3,152.867 | 221,258,211.00 | 37,613,896       | 261,510,490        | 2,638,382                      |
| BYCO   | 27-Sep-14 | 500086472  | 4,337.578 | 304,397,474.00 | 51,747,571       | 359,774,817        | 3,629,772                      |
| BYCO   | 30-Sep-14 | 500086707  | 530.923   | 37,258,493.00  | 6,333,944        | 44,036,724         | 444,287                        |
| BYCO   |           |            |           |                |                  |                    |                                |
| BYCO   |           |            |           |                |                  |                    |                                |

| Vendor | Inv Date  | Invoice No | Quantity  | Total Cost     | Total GST Amount | Total Financial charges (PSO) | Grand Total (PSO) |
|--------|-----------|------------|-----------|----------------|------------------|-------------------------------|-------------------|
| PSO    | 1-Sep-14  | 963185984  | 2,790.252 | 188,883,318.89 | 32,110,164       | 1,250,591                     | 222,244,074       |
| PSO    | 2-Sep-14  | 963188452  | 1,980.322 | 134,055,917.47 | 22,789,506       | 887,580                       | 157,733,004       |
| PSO    | 4-Sep-14  | 963192976  | 2,830.965 | 191,639,344.71 | 32,578,689       | 1,268,839                     | 225,486,872       |
| PSO    | 5-Sep-14  | 963196640  | 2,476.124 | 167,618,738.06 | 28,495,185       | 1,109,799                     | 197,223,722       |
| PSO    | 6-Sep-14  | 963198269  | 2,475.422 | 167,571,216.87 | 28,487,107       | 1,109,484                     | 197,167,808       |
| PSO    | 10-Sep-14 | 963205226  | 1,078.798 | 73,028,151.81  | 12,414,786       | 483,517                       | 85,926,455        |
| PSO    | 10-Sep-14 | 963207853  | 2,507.891 | 169,769,173.35 | 28,860,759       | 1,124,037                     | 199,753,970       |
| PSO    | 12-Sep-14 | 963209739  | 1,975.552 | 133,733,017.09 | 22,734,613       | 885,442                       | 157,353,072       |
| PSO    | 13-Sep-14 | 963216589  | 1,984.116 | 134,312,748.50 | 22,833,167       | 889,281                       | 158,035,197       |
| PSO    | 16-Sep-14 | 963222486  | 1,709.610 | 120,604,437.45 | 20,502,754       | 806,047                       | 141,913,239       |
| PSO    | 17-Sep-14 | 963226847  | 2,276.034 | 160,562,818.53 | 27,295,679       | 1,073,105                     | 188,931,602       |
| PSO    | 23-Sep-14 | 962340011  | 2,477.370 | 174,766,066.65 | 29,710,231       | 1,168,030                     | 205,644,328       |
| PSO    | 24-Sep-14 | 963243328  | 2,480.499 | 174,986,801.96 | 29,747,756       | 1,169,506                     | 205,904,064       |
| PSO    | 25-Sep-14 | 963246077  | 2,476.426 | 174,699,472.17 | 29,698,910       | 1,167,585                     | 205,565,968       |
| PSO    |           |            |           |                |                  |                               |                   |
| PSO    |           |            |           |                |                  |                               |                   |

60,930 4,196,226,590 2,398,254,672 359,492,057 4,948,083,743

Opening as at Aug' 14

5,454 350,065,474

Purchases Sep' 14

60,931 4,196,248,812

| Quantity | Amount          |
|----------|-----------------|
| (8,634)  | (578,335,264)   |
| (7,110)  | (476,251,040)   |
| (7,416)  | (496,713,032)   |
| (360)    | (24,086,446)    |
| (6,987)  | (469,681,977)   |
| (8,374)  | (583,800,467)   |
| (5,790)  | (403,651,837)   |
| (7,975)  | (555,857,163)   |
| (2,396)  | (167,022,625)   |
| (6,284)  | (438,080,760)   |
| (61,323) | (4,193,480,611) |
| 5,061.06 | 352,833,674.49  |
| 5,061.06 | 352,833,674.49  |

Consumption Sep' 14

Closing as at Sep' 14