

Ref. No. RA&SP/NEPRA/071/027  
Dated: March 11, 2015

The Registrar  
N.E.P.R.A  
Islamabad

Subject: **REVISED MONTHLY FUEL COST ADJUSTMENT (FCA) DUE TO VARIATION IN FUEL AND POWER PURCHASE PRICE FOR THE MONTH OF JANUARY 2015**

Dear Sir

This is with reference to our submission of monthly fuel cost adjustment of January 2015 Ref: RA&SP/NEPRA/071/1217 dated 24<sup>th</sup> February, 2015, as per tariff determination of 23<sup>rd</sup> December 2009.

**Revised Monthly Adjustment:**

This submission is revised based on NTDC power purchase invoice for the month of Jan-15, received on 11-Mar-2015 and hence supersedes our earlier submission sent to NEPRA. Further, the units sent out on Gas and Furnace oil at BQPS-I have been worked out in the ratio of actual units generated on Gas & Furnace Oil at BQPS-I.

The revised summarized position is as under;

DESCRIPTION	January 2015 (Over Dec-14)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	(249.444)	(24.675)
Power Purchase Price Variation	1,063.639	105.215
<b>Total Fuel Costs Adjustment</b>	<b>814.194</b>	<b>80.540</b>

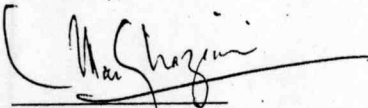
Registrar  
Dy No. 2633  
Dated 12-03-15

**Economic Dispatch Order**

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 claim does not include any amount of late payment surcharge/ markup/ interest. All the requisite details including generating statistic sheets and invoices are attached.

Moreover, 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 Ghaziani**  
Director (Finance & Regulations)

Encl.

For my attention & work.  
— SAT-I  
Cpr to: 8  
16/3  
— SA (Tech)  
— SA (M&E)  
— Dir (L&C)  
— M/R  
cc: Chairman  
ve/m (L&C)  
m (T)  
m (C)  
M (M&E)  
12/03/15  
DDCT-5

Senior Advisor Tariff  
Dy No: 2234  
Date: 19-3-15

**K Electric Limited (Formerly KESC Ltd.)****SUMMARY OF REQUIRED ADJUSTMENT ON ACCOUNT OF VARIATION IN COST OF FUEL AND POWER PURCHASES**

DESCRIPTION		Dec-14	Jan-15
<b>2 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS</b>			
I a. Monthly Variation in			
i Fuel Price	Mill Rs.	(343.100)	(249.444)
ii Power Purchase Price - Fuel component	Mill Rs.	(753.198)	1,063.639
iii Total Monthly Variation ( i + ii ) - Over Reference Tariff	Mill Rs.	<b>(1,096.298)</b>	<b>814.194</b>
b. Units Sent Out	Mill kWh	<b>1,061.676</b>	<b>1,010.919</b>
II a Monthly Variation in FSA - due to			
i Fuel Price	Ps/kWh	(32.317)	(24.675)
ii Power Purchase Price - Fuel component	Ps/kWh	(70.944)	105.215
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	<b>(103.261)</b>	<b>80.540</b>

**Work Sheet- Generation Fuel Cost Variation**

DESCRIPTION		Dec-14	Jan-15
<b>1 UNITS SENT OUT - KE</b>			
<b>1a UNITS SENT OUT ON GAS</b>			
i Bin Qasim	Mill kWh	45.878	49.180
ii Bin Qasim II - CCPP	Mill kWh	319.132	309.638
iv Korangi Gas 2	Mill kWh	10.498	9.991
v Site Gas 2	Mill kWh	0.521	1.481
vi Korangi combined	Mill kWh	19.625	12.464
Total (i to viii)	Mill kWh	<b>395.654</b>	<b>382.755</b>
<b>1b UNITS SENT OUT ON F. OIL</b>			
i Bin Qasim	Mill kWh	92.252	50.707
Total (i to viii)	Mill kWh	<b>92.252</b>	<b>50.707</b>
<b>1c TOTAL UNITS SENT OUT (1 + 2)</b>			
i Bin Qasim	Mill kWh	138.130	99.887
ii Bin Qasim II - CCPP	Mill kWh	319.132	309.638
iv Korangi Gas 2	Mill kWh	10.498	9.991
v Site Gas 2	Mill kWh	0.521	1.481
vi Korangi combined	Mill kWh	19.625	12.464
Total (i to vii)	Mill kWh	<b>487.906</b>	<b>433.462</b>
<b>2 HEAT RATE AT BUS BAR</b>			
<b>2a Heat Rate of GAS - of item 1</b>			
i Bin Qasim	Btu/kWh	10,650	10,650
ii Bin Qasim II - CCPP	Btu/kWh	8,605	8,605
iv Korangi Gas 2	Btu/kWh	9,500	9,500
v Site Gas 2	Btu/kWh	9,500	9,500
vi Korangi combined	Btu/kWh	9,110	9,110
<b>2b CONVERSION FACTOR F. OIL - of item 2</b>			
i Bin Qasim	Kg/kWh	<b>0.264</b>	<b>0.264</b>
ii Korangi Thermal	Kg/kWh	<b>0.340</b>	<b>0.340</b>
<b>3 FUEL PRICES</b>			
a. Fuel Prices- Gas (Rs/MMBTu)	Rs/MMBTu	<b>488.23</b>	<b>488.23</b>
b. Fuel Price -F.O (Rs/Kg)	Rs/Kg	<b>47,221</b>	<b>37,275</b>
<b>4 COST OF FUEL</b>			
<b>4a COST OF GAS</b>			
i Bin Qasim	Mill Rs	238.550	255.721
ii Bin Qasim II - CCPP	Mill Rs	1,340.743	1,300.857
iv Korangi Gas 2	Mill Rs	48.693	46.341
v Site Gas 2	Mill Rs	2.416	6.870
vi Korangi combined	Mill Rs	87.286	55.438
Total (i to vii)	Mill Rs	<b>1,717.689</b>	<b>1,665.228</b>
<b>4b COST OF FURNACE OIL</b>			
i Bin Qasim	Mill Rs	1,150.047	498.983
Total (i to vii)	Mill Rs	<b>1,150.047</b>	<b>498.983</b>

**Work Sheet- Generation Fuel Cost Variation**

DESCRIPTION		Dec-14	Jan-15
<b>4c TOTAL COST OF FUEL</b>			
i Bin Qasim	Mill Rs	1,388.598	754.704
ii Bin Qasim II - CCPP	Mill Rs	1,340.743	1,300.857
iv Korangi Gas 2	Mill Rs	48.693	46.341
v Site Gas 2	Mill Rs	2.416	6.870
vi Korangi combined	Mill Rs	87.286	55.438
Total	Mill Rs	<b>2,867.737</b>	<b>2,164.210</b>
<b>5 COST OF FUEL PER KWH</b>			
a Bin Qasim	Rs/kWh	10.053	7.556
b Bin Qasim II - CCPP	Rs/kWh	4.201	4.201
d Korangi Gas 2	Rs/kWh	4.638	4.638
e Site Gas 2	Rs/kWh	4.638	4.638
f Korangi combined	Rs/kWh	4.448	4.448
<b>6 INCREASE/DECREASE IN COST OF FUEL PER KWH</b>			
a Bin Qasim	Rs/kWh	(2.484)	(2.497)
b Bin Qasim II - CCPP	Rs/kWh	-	-
d Korangi Gas 2	Rs/kWh	-	-
e Site Gas 2	Rs/kWh	-	-
f Korangi combined	Rs/kWh	-	-
<b>7 INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH</b>			
a Bin Qasim	Mill Rs	(343.100)	(249.444)
b Bin Qasim II - CCPP	Mill Rs	-	-
d Korangi Gas 2	Mill Rs	-	-
e Site Gas 2	Mill Rs	-	-
f Korangi combined	Mill Rs	-	-
Total (a to g)	Mill Rs	<b>(343.100)</b>	<b>(249.444)</b>
<b>8 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</b>			
a Fuel price variation (item 7-h)	Mill Rs	(343.100)	(249.444)
b Units Sent Out - KE	Mill kWh	487.906	433.462
c Power Purchase	Mill kWh	573.769	577.457
d Total Units Sent Out (b + c)	Mill kWh	1,061.676	1,010.919
e Increase / Decrease in Tariff (8a / 8d x 100)			
To be passed on to the consumers - FSA	Ps/kWh	<b>(32.317)</b>	<b>(24.675)</b>
<b>9 INCREASE / DECREASE IN REVENUE</b>			
a Units Sold	Mill kWh	902.424	859.281
b Increase / Decrease in Tariff	Ps/kWh	(32.317)	(24.675)
c Increase / Decrease in Revenue (9a / 9b x 100)	Mill Rs	(291.635)	(212.028)
d Accumulated increase / decrease in revenue	Mill Rs	<b>(1,516.904)</b>	<b>(212.028)</b>
d Unrecovered Cost due to T&D loss		<b>(51.465)</b>	<b>(37.417)</b>
<b>10 INCREASE / DECREASE IN TARIFF TO BE ADJUSTED ON QUARTERLY BASIS</b>			
a Fuel price variation - item 8a	Mill Rs	(343.100)	(249.444)
b Units Sent Out - KE	Mill kWh	487.906	433.462
c Power Purchase	Mill kWh	573.769	577.457
d Total Units Sent Out	Mill kWh	1,061.676	1,010.919
e Trans & Dist Losses		15%	15%
f Units Sold (10d - 10e)	Mill kWh	<b>902.424</b>	<b>859.281</b>



**Work Sheet- Power Purchase Cost Variation**

DESCRIPTION		Dec-14	Jan-15
<b>1</b>	<b><u>POWER PURCHASES</u></b>		
a	KANUPP Mill kWh	24.598	26.933
b	PASMIC Mill kWh	0.638	0.106
c	TAPAL Mill kWh	50.148	48.468
d	GUL AHMED Mill kWh	40.363	36.860
e	NTDC/WAPDA Mill kWh	442.648	450.026
f	ANOUD POWER Mill kWh	9.192	9.014
h	INT IND (IIL) Mill kWh	6.182	6.049
m	TOTAL Mill kWh	<b>573.769</b>	<b>577.457</b>
<b>2</b>	<b><u>COST OF POWER PURCHASE - FUEL COST</u></b>		
a	KANUPP Mill Rs	151.381	140.920
b	PASMIC Mill Rs	3.927	0.552
c	TAPAL Mill Rs	569.579	443.962
d	GUL AHMED Mill Rs	463.705	320.439
e	NTDC/WAPDA Mill Rs	2,916.749	4,308.641
f	ANOUD POWER Mill Rs	79.294	61.531
h	INT IND (IIL) Mill Rs	34.505	33.849
m	TOTAL Mill Rs	<b>4,219.141</b>	<b>5,309.893</b>
<b>3</b>	<b><u>COST OF POWER PURCHASE- Fuel Cost/kWh</u></b>		
a	KANUPP Rs/kWh	6.154	5.232
b	PASMIC Rs/kWh	6.154	5.232
c	TAPAL Rs/kWh	11.358	9.160
d	GUL AHMED Rs/kWh	11.488	8.693
e	NTDC/WAPDA Rs/kWh	6.589	9.574
f	ANOUD POWER Rs/kWh	8.626	6.826
h	INT IND (IIL) Rs/kWh	5.582	5.595
m	AVERAGE Rs/kWh+E	<b>7.353</b>	<b>9.195</b>
<b>4</b>	<b><u>INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS</u></b>		
a	Average Monthly Fuel cost of Rs/kWh	7.353	9.195
b	Reference Rate - Previous Month Rs/kWh	8.666	7.353
c	Increase / Decrease in Average Rs/kWh	<b>(1.313)</b>	<b>1.842</b>
d	Total Power Purchase (Item Mill kWh	573.769	577.457
e	Increase / Decrease in Fuel Cost Mill Rs	<b>(753.198)</b>	<b>1,063.639</b>
<b>5</b>	<b><u>INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</u></b>		
a	Fuel price variation in cost of power purch	(753.198)	1,063.639
b	Units Sent Out - KE Mill kWh	487.906	433.462
c	Power Purchase Mill kWh	573.769	577.457
d	Total Units Sent Out (b + c) Mill kWh	<b>1,061.676</b>	<b>1,010.919</b>
e	Increase / Decrease in Tariff (5a / 5d x 100) To be passed on to the consumer Ps/kWh	<b>(70.944)</b>	<b>105.215</b>
<b>6</b>	<b><u>INCREASE / DECREASE IN REVENUE</u></b>		
a	Units Sold Mill kWh	902.424	859.281
b	Increase / Decrease in Tariff (it Ps/kWh	(70.944)	105.215
c	Increase / Decrease in Revenue Mill Rs	(640.218)	904.093
d	Accumulated increase / decrease Mill Rs	<b>(2,087.037)</b>	<b>904.093</b>

# Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Dec-14	Jan-15
<b>7 O&amp;M PAYMENT</b>			
a	KANUPP Mill Rs	23.738	25.991
b	PASMIC Mill Rs	1.384	0.229
c	TAPAL Mill Rs	50.033	49.190
d	GUL AHMED Mill Rs	23.507	21.839
e	NTDC/WAPDA Mill Rs	926.096	865.801
f	ANOUD POWER Mill Rs	11.861	11.824
h	INT IND (IIL) Mill Rs	9.692	9.353
m	TOTAL Mill Rs	<b>1,046.311</b>	<b>984.227</b>
<b>8 O&amp;M PAYMENT (Rs/kWh)</b>			
a	KANUPP Rs/kWh	0.965	0.965
b	PASMIC Rs/kWh	2.169	2.169
c	TAPAL Rs/kWh	0.998	1.015
d	GUL AHMED Rs/kWh	0.582	0.593
e	NTDC/WAPDA Rs/kWh	2.092	1.924
f	ANOUD POWER Rs/kWh	1.290	1.312
h	INT IND (IIL) Rs/kWh	1.568	1.546
m	TOTAL Rs/kWh	1.824	1.704
n	Variation over Base Rate Rs/kWh	0.268	(0.119)
o	Variation over Base Rate (8a*1) Mill Rs	<b>153.954</b>	<b>(68.808)</b>
<b>9 CAPACITY PAYMENT</b>			
c	TAPAL Mill Rs	134.834	136.753
d	GUL AHMED Mill Rs	111.333	113.053
m	TOTAL Mill Rs	<b>246.166</b>	<b>249.806</b>
<b>10 CAPACITY PAYMENT (Rs/ Kwh)</b>			
c	TAPAL Rs/kWh	2.689	2.822
d	GUL AHMED Rs/kWh	2.758	3.067
m	TOTAL Rs/kWh	0.429	0.433
n	Variation over Base Rate Rs/kWh	0.025	0.004
o	Variation over Base Rate (10n*: Mill Rs	<b>14.531</b>	<b>2.057</b>
<b>11 TOTAL O&amp;M &amp; CAPACITY PAYMENT</b>			
a	KANUPP Mill Rs	23.738	25.991
b	PASMIC Mill Rs	1.384	0.229
c	TAPAL Mill Rs	184.866	185.943
d	GUL AHMED Mill Rs	134.840	134.892
e	NTDC/WAPDA Mill Rs	926.096	865.801
f	ANOUD POWER Mill Rs	11.861	11.824
h	INT IND (IIL) Mill Rs	9.692	9.353
m	TOTAL Mill Rs	<b>1,292.478</b>	<b>1,234.033</b>
<b>12 TOTAL COST WITH O&amp;M AND CAPACITY P</b>			
		1,444.15	1,158.59
a	KANUPP Mill Rs	175.119	166.911
b	PASMIC Mill Rs	5.311	0.781
c	TAPAL Mill Rs	754.445	629.905
d	GUL AHMED Mill Rs	598.545	455.331
e	NTDC/WAPDA Mill Rs	3,842.846	5,174.442
f	ANOUD POWER Mill Rs	91.155	73.355
h	INT IND (IIL) Mill Rs	44.197	43.202
m	TOTAL Mill Rs	<b>5,511.619</b>	<b>6,543.926</b>

**Work Sheet- Power Purchase Cost Variation**

DESCRIPTION	Dec-14	Jan-15
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**13 COST OF POWER PURCHASE- TOTAL Cost/kWh**

a	KANUPP	Rs/kWh	7.119	6.197
b	PASMIC	Rs/kWh	8.323	7.401
c	TAPAL	Rs/kWh	15.044	12.996
d	GUL AHMED	Rs/kWh	14.829	12.353
e	NTDC/WAPDA	Rs/kWh	8.681	11.498
f	ANOUD POWER	Rs/kWh	9.917	8.138
h	INT IND (IIL)	Rs/kWh	7.149	7.141
m	AVERAGE	Rs/kWh	<b>9.606</b>	<b>11.332</b>

**14 INCREASE / DERCREASE IN POWER PURCHASE COST - TOTAL**

a	Average Monthly cost of Pow Rs/kWh	9.606	11.332
b	Reference Rate - Previous Month Rs/kWh	10.625	9.606
c	Increase / Decrease in Average Rs/kWh	(1.019)	1.726
d	Total Power Purchase (Item Mill kWh)	573.769	577.457
e	Increase / Decrease in Total Cost Mill Rs	<b>(584.712)</b>	<b>996.887</b>
f	Adjustment in cost of KANUPP		
g	Unrecovered cost Previous Quarter		
h	Total (e+f+g)	(584.712)	996.887

**15 INCREASE / DERCREASE IN TARIFF**

**TO BE ADJUSTED ON QUARTERLY BASIS**

a	Total price variation in cost of p Mill Rs	(584.712)	996.887
b	KE - Units Sent Out	Mill kWh	487.906
c	Power Purchase	Mill kWh	573.769
d	Total Units Sent Out (b+c)	Mill kWh	1,061.676
e	Trans & Dist Losses	15.0%	15.0%
f	Units Sold (15d-15e)	Mill kWh	<b>902.424</b>
g	Increase / Decrease in Tariff		<b>859.281</b>
h	Power Purchase (15a/15f)	Ps/kWh	<b>(64.794)</b>
			<b>116.014</b>





National Transmission And Despatch Company  
Central Power Purchase Agency (CPPA), WAPDA House, Lahore

Power / Electricity Sales Bill

(Provisional)

NTDC GST No. 03-00-2716-005-73

Name and Address	
Karachi Electric Supply Company	KESC
KESC House, 39-B, Sunset Boulevard, Phase-IV, DHA, Karachi.	
GST No.	1200271600728

Billing Month	January-15
Invoice No.	ES/KESC-1501
Reading Date	31-01-2015
Issue Date	10-03-2015
Due Date	25-03-2015

Description					
Energy (kWh)					450,003,000
kVarh					
MDI (kw)					670,000

Use Of System Charges		Rate (Rs.)	Amount (Rs.)
Fixed		102.430	68,628,100
Variables		0.2387*1	-
Total			68,628,100

Capacity Transfer Charges		1,283.067928	859,855,512
Energy Transfer Charges	i.	8.400129	3,780,083,250
Energy Transfer Charges	ii.	1.174564	528,557,324
Total Transfer Charges			5,168,296,086

Bill for the Month			5,236,924,186
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GST			642,614,153
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Bill Adjustment			-
Energy Charges			-
GST			-
Arrears			-

Payable Within Due Date			5,879,538,339
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Addl. DGM Finance (CPPA)