

Ref. No. RA&SP/NEPRA/071/1334  
Dated: May 26, 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 MARCH 2015.**

Dear Sir

This is with reference to our earlier submission of monthly fuel cost adjustment of March 2015 Ref: RA&SP/NEPRA/071/1330 dated 24-Apr-15, as per tariff determination of 23<sup>rd</sup> December 2009. Now our revised submission is as under:

**Revised Monthly Adjustment:**

This submission is revised based on NTDC power purchase invoice for the month of Mar-15, received on 26-May-15 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. Below is the revised summarized position;

DESCRIPTION	March 2015 (Over Dec-14)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	(286.175)	(23.498)
Power Purchase Price Variation	(191.840)	(15.752)
<b>Total Fuel Costs Adjustment</b>	<b>(478.015)</b>	<b>(39.250)</b>

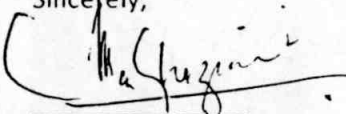
Registrar  
Dy No. 5873  
Date: 29-05-15

**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 were already sent with earlier submission.

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 information & 2/6 M.  
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Gpu lo.  
SA (Tech)  
Gm (Tech) (G)  
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SAT/II  
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29.05.15  
cc: chairman  
vc/m (CA)  
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m (M&E)  
m (Lic)  
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Dir-T-1

Diary No: 2378  
Date: 2-6-15

Senior Advisor Tariff  
Dy No: 4924  
Date: 01-06-2015

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

DESCRIPTION		Dec-14	Mar-15
<b>2 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS</b>			
<b>I a. Monthly Variation in</b>			
i Fuel Price	Mill Rs.	(344.923)	(286.175)
ii Power Purchase Price - Fuel component	Mill Rs.	(885.603)	(191.840)
iii Total Monthly Variation ( i + ii ) - Over Reference Tariff	Mill Rs.	<b>(1,230.526)</b>	<b>(478.015)</b>
b. Units Sent Out	Mill kWh	1,061.676	1,217.875
<b>II a Monthly Variation in FSA - due to</b>			
i Fuel Price	Ps/kWh	(32.489)	(23.498)
ii Power Purchase Price - Fuel component	Ps/kWh	(83.416)	(15.752)
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	<b>(115.904)</b>	<b>(39.250)</b>

# Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-14	Mar-15
<b>1 UNITS SENT OUT - KE</b>			
<b>1a UNITS SENT OUT ON GAS</b>			
i Bin Qasim	Mill kWh	45.878	87.549
ii Bin Qasim II - CCPP	Mill kWh	319.132	284.495
iii Korangi Gas 2	Mill kWh	10.498	14.499
iv Site Gas 2	Mill kWh	0.521	0.331
v Korangi combined	Mill kWh	19.625	36.130
Total (i to viii)	Mill kWh	<b>395.654</b>	<b>422.932</b>
<b>1b UNITS SENT OUT ON F. OIL</b>			
i Bin Qasim	Mill kWh	92.252	144.256
Total (i to viii)	Mill kWh	<b>92.252</b>	<b>144.256</b>
<b>1c TOTAL UNITS SENT OUT (1 + 2)</b>			
i Bin Qasim	Mill kWh	138.130	231.805
ii Bin Qasim II - CCPP	Mill kWh	319.132	284.495
iii Korangi Gas 2	Mill kWh	10.498	14.499
iv Site Gas 2	Mill kWh	0.521	0.331
v Korangi combined	Mill kWh	19.625	36.130
Total (i to vii)	Mill kWh	<b>487.906</b>	<b>567.188</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
i Bin Qasim II - CCPP	Btu/kWh	8,605	8,605
iii Korangi Gas 2	Btu/kWh	9,500	9,500
iii Site Gas 2	Btu/kWh	9,500	9,500
iv Korangi combined	Btu/kWh	9,110	9,110
v			
<b>2b</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>47,146</b>	<b>41,641</b>
<b>4 COST OF FUEL</b>			
<b>4a COST OF GAS</b>			
i Bin Qasim	Mill Rs	238.550	455.224
ii Bin Qasim II - CCPP	Mill Rs	1,340.743	1,195.226
iv Korangi Gas 2	Mill Rs	48.693	67.249
v Site Gas 2	Mill Rs	2.416	1.537
vi Korangi combined	Mill Rs	87.286	160.698
Total (i to vii)	Mill Rs	<b>1,717.689</b>	<b>1,879.934</b>
<b>4b COST OF FURNACE OIL</b>			
i Bin Qasim	Mill Rs	1,148.224	1,585.832
Total (i to vii)	Mill Rs	<b>1,148.224</b>	<b>1,585.832</b>

# Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-14	Mar-15
<b>4c TOTAL COST OF FUEL</b>			
i Bin Qasim	Mill Rs	1,386.775	2,041.056
ii Bin Qasim II - CCPP	Mill Rs	1,340.743	1,195.226
iii Korangi Gas 2	Mill Rs	48.693	67.249
iv Site Gas 2	Mill Rs	2.416	1.537
v Korangi combined	Mill Rs	87.286	160.698
Total	Mill Rs	<b>2,865.914</b>	<b>3,465.765</b>
<b>5 COST OF FUEL PER KWH</b>			
a Bin Qasim	Rs/kWh	10.040	8.805
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	(2.497)	(1.235)
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	(344.923)	(286.175)
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>(344.923)</b>	<b>(286.175)</b>
<b>8 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</b>			
a Fuel price variation (item 7-h)	Mill Rs	(344.923)	(286.175)
b Units Sent Out - KE	Mill kWh	487.906	567.188
c Power Purchase	Mill kWh	573.769	650.687
d Total Units Sent Out (b + c)	Mill kWh	1,061.676	1,217.875
e Increase / Decrease in Tariff (8a / 8d x 100)			
To be passed on to the consumers - FSA	Ps/kWh	<b>(32.489)</b>	<b>(23.498)</b>
<b>9 INCREASE / DECREASE IN REVENUE</b>			
a Units Sold	Mill kWh	902.424	1,035.194
b Increase / Decrease in Tariff	Ps/kWh	(32.489)	(23.498)
c Increase / Decrease in Revenue (9a / 9b x 100)	Mill Rs	(293.185)	(243.249)
d Accumulated increase / decrease in revenue	Mill Rs	<b>(1,518.453)</b>	<b>(982.055)</b>
d Unrecovered Cost due to T&D loss		<b>(51.739)</b>	<b>(42.926)</b>
<b>10 INCREASE / DECREASE IN TARIFF TO BE ADJUSTED ON QUARTERLY BASIS</b>			
a Fuel price variation - item 8a	Mill Rs	(344.923)	(286.175)
b Units Sent Out - KE	Mill kWh	487.906	567.188
c Power Purchase	Mill kWh	573.769	650.687
d Total Units Sent Out	Mill kWh	1,061.676	1,217.875
e Trans & Dist Losses	15%	15%	
f Units Sold (10d - 10e)	Mill kWh	<b>902.424</b>	<b>1,035.194</b>

# Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Dec-14	Mar-15
<b>1 POWER PURCHASES</b>			
a	KANUPP Mill kWh	24.598	44.699
b	PASMIC Mill kWh	0.638	1.131
c	TAPAL Mill kWh	50.148	66.039
d	GUL AHMED Mill kWh	40.363	58.552
e	NTDC/WAPDA Mill kWh	442.648	466.274
f	ANOUD POWER Mill kWh	9.192	7.905
g	INT IND (IIL) Mill kWh	6.182	6.087
	<b>TOTAL Mill kWh</b>	<b>573.769</b>	<b>650.687</b>
<b>2 COST OF POWER PURCHASE - FUEL COST</b>			
a	KANUPP Mill Rs	151.381	287.990
b	PASMIC Mill Rs	3.927	7.290
c	TAPAL Mill Rs	569.579	546.186
d	GUL AHMED Mill Rs	463.705	556.102
e	NTDC/WAPDA Mill Rs	2,784.344	2,952.851
f	ANOUD POWER Mill Rs	79.294	58.364
g	INT IND (IIL) Mill Rs	34.505	33.971
	<b>TOTAL Mill Rs</b>	<b>4,086.736</b>	<b>4,442.753</b>
<b>3 COST OF POWER PURCHASE- Fuel Cost/kV</b>			
		-	-
a	KANUPP Rs/kWh	6.154	6.443
b	PASMIC Rs/kWh	6.154	6.443
c	TAPAL Rs/kWh	11.358	8.271
d	GUL AHMED Rs/kWh	11.488	9.498
e	NTDC/WAPDA Rs/kWh	6.290	6.333
f	ANOUD POWER Rs/kWh	8.626	7.383
g	INT IND (IIL) Rs/kWh	5.582	5.581
	<b>AVERAGE Rs/kWh+E</b>	<b>7.123</b>	<b>6.828</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	7.123	6.828
b	Reference Rate - Previous Mon Rs/kWh	8.666	7.123
c	Increase / Decrease in Average Rs/kWh	<b>(1.543)</b>	<b>(0.295)</b>
d	Total Power Purchase (Item Mill kWh	573.769	650.687
e	Increase / Decrease in Fuel Cos Mill Rs	<b>(885.603)</b>	<b>(191.840)</b>
<b>5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</b>			
a	Fuel price variation in cost of power purch.	(885.603)	(191.840)
b	Units Sent Out - KE Mill kWh	487.906	567.188
c	Power Purchase Mill kWh	573.769	650.687
d	Total Units Sent Out (b + c) Mill kWh	<b>1,061.676</b>	<b>1,217.875</b>
e	Increase / Decrease in Tariff (5a / 5d x 100)		
	To be passed on to the consum Ps/kWh	<b>(83.416)</b>	<b>(15.752)</b>
<b>6 INCREASE / DECREASE IN REVENUE</b>			
a	Units Sold Mill kWh	902.424	1,035.194
b	Increase / Decrease in Tariff (it Ps/kWh	(83.416)	(15.752)
c	Increase / Decrease in Revenue Mill Rs	(752.762)	(163.064)
d	Accumulated increase / decrea Mill Rs	<b>(2,199.581)</b>	<b>(173.311)</b>

# Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Dec-14	Mar-15
<b>7 O&amp;M PAYMENT</b>			
a	KANUPP Mill Rs	23.738	43.136
b	PASMIC Mill Rs	1.384	2.454
c	TAPAL Mill Rs	50.033	67.022
d	GUL AHMED Mill Rs	23.507	34.692
e	NTDC/WAPDA Mill Rs	926.096	900.098
f	ANOUD POWER Mill Rs	11.861	11.589
g	INT IND (IIL) Mill Rs	9.692	9.748
	<b>TOTAL Mill Rs</b>	<b>1,046.311</b>	<b>1,068.739</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	1.930
f	ANOUD POWER Rs/kWh	1.290	1.466
g	INT IND (IIL) Rs/kWh	1.568	1.601
	<b>TOTAL Rs/kWh</b>	<b>1.824</b>	<b>1.642</b>
	Variation over Base Rate Rs/kWh	0.268	(0.181)
	Variation over Base Rate (8a*1) Mill Rs	<b>153.954</b>	<b>(117.838)</b>
<b>9 CAPACITY PAYMENT</b>			
a	TAPAL Mill Rs	134.834	136.753
b	GUL AHMED Mill Rs	111.333	125.811
	<b>TOTAL Mill Rs</b>	<b>246.166</b>	<b>262.564</b>
<b>10 CAPACITY PAYMENT (Rs/ kWh)</b>			
a	TAPAL Rs/kWh	2.689	2.071
b	GUL AHMED Rs/kWh	2.758	2.149
	<b>TOTAL Rs/kWh</b>	<b>0.429</b>	<b>0.404</b>
	Variation over Base Rate Rs/kWh	0.036	(0.026)
	Variation over Base Rate (10n* Mill Rs	<b>20.919</b>	<b>(16.602)</b>
<b>11 TOTAL O&amp;M &amp; CAPACITY PAYMENT</b>			
a	KANUPP Mill Rs	23.738	43.136
b	PASMIC Mill Rs	1.384	2.454
c	TAPAL Mill Rs	184.866	203.775
d	GUL AHMED Mill Rs	134.840	160.503
e	NTDC/WAPDA Mill Rs	926.096	900.098
f	ANOUD POWER Mill Rs	11.861	11.589
g	INT IND (IIL) Mill Rs	9.692	9.748
	<b>TOTAL Mill Rs</b>	<b>1,292.478</b>	<b>1,331.304</b>
<b>12 TOTAL COST WITH O&amp;M AND CAPACITY P</b>			
		1,444.15	
a	KANUPP Mill Rs	175.119	331.126
b	PASMIC Mill Rs	5.311	9.743
c	TAPAL Mill Rs	754.445	749.962
d	GUL AHMED Mill Rs	598.545	716.605
e	NTDC/WAPDA Mill Rs	3,710.441	3,852.950
f	ANOUD POWER Mill Rs	91.155	69.953
g	INT IND (IIL) Mill Rs	44.197	43.719
	<b>TOTAL Mill Rs</b>	<b>5,379.214</b>	<b>5,774.056</b>



# Work Sheet- Power Purchase Cost Variation

DESCRIPTION	Dec-14	Mar-15
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## 13 COST OF POWER PURCHASE- TOTAL Cost/kWh

a	KANUPP	Rs/kWh	7.119	7.408
b	PASMIC	Rs/kWh	8.323	8.611
c	TAPAL	Rs/kWh	15.044	11.356
d	GUL AHMED	Rs/kWh	14.829	12.239
e	NTDC/WAPDA	Rs/kWh	8.382	8.263
f	ANOUD POWER	Rs/kWh	9.917	8.849
g	INT IND (IIL)	Rs/kWh	7.149	7.182
	AVERAGE	Rs/kWh	9.375	8.874

## 14 INCREASE / DECREASE IN POWER PURCHASE COST - TOTAL

a	Average Monthly cost of Pow	Rs/kWh	9.375	8.874
b	Reference Rate - Previous Mon	Rs/kWh	10.614	9.375
c	Increase / Decrease in Average	Rs/kWh	(1.239)	(0.501)
d	Total Power Purchase (Item	Mill kWh	573.769	650.687
e	Increase / Decrease in Total Co	Mill Rs	(710.730)	(326.281)
f	Adjustment in cost of KANUPP			
g	Unrecovered cost Previous Quarter			
h	Total (e+f+g)		(710.730)	(326.281)

## 15 INCREASE / DECREASE IN TARIFF

### TO BE ADJUSTED ON QUARTERLY BASIS

a	Total price variation in cost of p	Mill Rs	(710.730)	(326.281)
b	KE - Units Sent Out	Mill kWh	487.906	567.188
c	Power Purchase	Mill kWh	573.769	650.687
d	Total Units Sent Out (b+c)	Mill kWh	1,061.676	1,217.875
e	Trans & Dist Losses		15.0%	15.0%
f	Units Sold (15d-15e)	Mill kWh	902.424	1,035.194
g	Increase / Decrease in Tariff			
h	Power Purchase (15a/15f)	Ps/kWh	(78.758)	(31.519)