



Ref. No. RA&SP/NEPRA/071/032

Dated: April 02, 2015

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

SAT-II  
~~SAT-I~~

For information & file  
- SAT-I  
Chk. to:  
- SA (Tech)  
- SA (MIE)  
- M/F

09.04.15  
cc: Chairman  
VC/M (CA)  
M(T)  
M(R&E)

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

Dear Sir

This is with reference to our earlier submission of monthly fuel cost adjustment of February 2015 Ref: RA&SP/NEPRA/071/1224 dated 31-Mar-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 Feb-15, received on 02-Apr-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	February 2015 (Over Dec-14)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	(633.402)	(63.947)
Power Purchase Price Variation	(943.274)	(95.230)
<b>Total Fuel Costs Adjustment</b>	<b>(1,576.676)</b>	<b>(159.177)</b>

Register  
DY No. 9831  
Dated 09-04-15

**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.

D.O.T-M. Jaleel  
13/04/15

3819  
13-4-15

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

DESCRIPTION		Dec-14	Feb-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)	(633.402)
II Power Purchase Price - Fuel component	Mill Rs.	(885.603)	(943.274)
III Total Monthly Variation ( I + II ) - Over Reference Tariff	Mill Rs.	<b>(1,230.526)</b>	<b>(1,576.676)</b>
<b>b. Units Sent Out</b>			
	Mill kWh	<b>1,061.676</b>	<b>990.518</b>
<b>II a Monthly Variation in FSA - due to</b>			
I Fuel Price	Ps/kWh	(32.489)	(63.947)
II Power Purchase Price - Fuel component	Ps/kWh	(83.416)	(95.230)
<b>b Monthly increase/decrease to be passed to Consumers (I+II)</b>	Ps/kWh	<b>(115.904)</b>	<b>(159.177)</b>

**Work Sheet- Generation Fuel Cost Variation**

DESCRIPTION		Dec-14	Feb-15
<b>1 UNITS SENT OUT - KE</b>			
<b>1a UNITS SENT OUT ON GAS</b>			
i Bin Qasim	Mill kWh	45.878	123.084855
ii Bin Qasim II - CCPP	Mill kWh	319.132	142.587
iv Korangi Gas 2	Mill kWh	10.498	22.146
v Site Gas 2	Mill kWh	0.521	2.960
vi Korangi combined	Mill kWh	19.625	54.824
Total (i to viii)	Mill kWh	<b>395.654</b>	<b>345.603</b>
<b>1b UNITS SENT OUT ON F. OIL</b>			
i Bin Qasim	Mill kWh	92.252	66.102
Total (i to viii)	Mill kWh	<b>92.252</b>	<b>66.102</b>
<b>1c TOTAL UNITS SENT OUT (1 + 2)</b>			
i Bin Qasim	Mill kWh	138.130	189.187
ii Bin Qasim II - CCPP	Mill kWh	319.132	142.587
iv Korangi Gas 2	Mill kWh	10.498	22.146
v Site Gas 2	Mill kWh	0.521	2.960
vi Korangi combined	Mill kWh	19.625	54.824
Total (i to vii)	Mill kWh	<b>487.906</b>	<b>411.705</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>47,146</b>	<b>35,870</b>
<b>4 COST OF FUEL</b>			
<b>4a COST OF GAS</b>			
i Bin Qasim	Mill Rs	238.550	639.998
ii Bin Qasim II - CCPP	Mill Rs	1,340.743	599.039
iv Korangi Gas 2	Mill Rs	48.693	102.719
v Site Gas 2	Mill Rs	2.416	13.731
vi Korangi combined	Mill Rs	87.286	243.846
Total (i to vii)	Mill Rs	<b>1,717.689</b>	<b>1,599.333</b>
<b>4b COST OF FURNACE OIL</b>			
i Bin Qasim	Mill Rs	1,148.224	625.964
Total (i to vii)	Mill Rs	<b>1,148.224</b>	<b>625.964</b>

# Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-14	Feb-15
<b>4c TOTAL COST OF FUEL</b>			
i Bin Qasim	Mill Rs	1,386.775	1,265.963
ii Bin Qasim II - CCPP	Mill Rs	1,340.743	599.039
iv Korangi Gas 2	Mill Rs	48.693	102.719
v Site Gas 2	Mill Rs	2.416	13.731
vi Korangi combined	Mill Rs	87.286	243.846
Total	Mill Rs	<b>2,865.914</b>	<b>2,225.298</b>
<b>5 COST OF FUEL PER KWH</b>			
a Bin Qasim	Rs/kWh	10.040	6.692
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)	(3.348)
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)	(633.402)
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>(633.402)</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)	(633.402)
b Units Sent Out - KE	Mill kWh	487.906	411.705
c Power Purchase	Mill kWh	573.769	578.813
d Total Units Sent Out (b + c)	Mill kWh	1,061.676	990.518
e Increase / Decrease in Tariff (8a / 8d x 100)			
To be passed on to the consumers - FSA	Ps/kWh	<b>(32.489)</b>	<b>(63.947)</b>
<b>9 INCREASE / DECREASE IN REVENUE</b>			
a Units Sold	Mill kWh	902.424	841.940
b Increase / Decrease in Tariff	Ps/kWh	(32.489)	(63.947)
c Increase / Decrease in Revenue (9a / 9b x 100)	Mill Rs	(293.185)	(538.392)
d Accumulated increase / decrease in revenue	Mill Rs	<b>(1,518.453)</b>	<b>(749.299)</b>
d Unrecovered Cost due to T&D loss		<b>(51.739)</b>	<b>(95.010)</b>
<b>10 INCREASE / DECREASE IN TARIFF TO BE ADJUSTED ON QUARTERLY BASIS</b>			
a Fuel price variation - Item 8a	Mill Rs	(344.923)	(633.402)
b Units Sent Out - KE	Mill kWh	487.906	411.705
c Power Purchase	Mill kWh	573.769	578.813
d Total Units Sent Out	Mill kWh	1,061.676	990.518
e Trans & Dist Losses		15%	15%
f Units Sold (10d - 10e)	Mill kWh	<b>902.424</b>	<b>841.940</b>

# Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Dec-14	Feb-15
<b>1</b>	<b><u>POWER PURCHASES</u></b>	115.109	146.733
a	KANUPP Mill kWh	24.598	32.096
b	PASMIC Mill kWh	0.638	1.188
c	TAPAL Mill kWh	50.148	55.685
d	GUL AHMED Mill kWh	40.363	58.952
e	NTDC/WAPDA Mill kWh	442.648	417.728
f	ANOUD POWER Mill kWh	9.192	7.555
h	INT IND (IIL) Mill kWh	6.182	5.609
m	TOTAL Mill kWh	<b>573.769</b>	<b>578.813</b>
<b>2</b>	<b><u>COST OF POWER PURCHASE - FUEL COST</u></b>	1,184.665	1,050.344
a	KANUPP Mill Rs	151.381	186.696
b	PASMIC Mill Rs	3.927	6.909
c	TAPAL Mill Rs	569.579	404.438
d	GUL AHMED Mill Rs	463.705	459.210
e	NTDC/WAPDA Mill Rs	2,784.344	2,041.083
f	ANOUD POWER Mill Rs	79.294	49.799
h	INT IND (IIL) Mill Rs	34.505	31.249
m	TOTAL Mill Rs	<b>4,086.736</b>	<b>3,179.384</b>
<b>3</b>	<b><u>COST OF POWER PURCHASE- Fuel Cost/kv</u></b>	10.292	7.158
a	KANUPP Rs/kWh	6.154	5.817
b	PASMIC Rs/kWh	6.154	5.817
c	TAPAL Rs/kWh	11.358	7.263
d	GUL AHMED Rs/kWh	11.488	7.790
e	NTDC/WAPDA Rs/kWh	6.290	4.886
f	ANOUD POWER Rs/kWh	8.626	6.591
h	INT IND (IIL) Rs/kWh	5.582	5.571
m	AVERAGE Rs/kWh+E	<b>7.123</b>	<b>5.493</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	7.123	5.493
b	Reference Rate - Previous Month Rs/kWh	8.666	7.123
c	Increase / Decrease in Average Rs/kWh	<b>(1.543)</b>	<b>(1.630)</b>
d	Total Power Purchase (Item Mill kWh)	573.769	578.813
e	Increase / Decrease in Fuel Cost Mill Rs	<b>(885.603)</b>	<b>(943.274)</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 purchase	(885.603)	(943.274)
b	Units Sent Out - KE Mill kWh	487.906	411.705
c	Power Purchase Mill kWh	573.769	578.813
d	Total Units Sent Out (b + c) Mill kWh	<b>1,061.676</b>	<b>990.518</b>
e	Increase / Decrease in Tariff (5a / 5d x 100) To be passed on to the consumer Ps/kWh	<b>(83.416)</b>	<b>(95.230)</b>
<b>6</b>	<b><u>INCREASE / DECREASE IN REVENUE</u></b>		
a	Units Sold Mill kWh	902.424	841.940
b	Increase / Decrease in Tariff (it Ps/kWh)	(83.416)	(95.230)
c	Increase / Decrease in Revenue Mill Rs	(752.762)	(801.783)
d	Accumulated increase / decrease Mill Rs	<b>(2,199.581)</b>	<b>101.583</b>

# Work Sheet- Power Purchase Cost Variation

DESCRIPTION	Dec-14	Feb-15
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## 7 O&M PAYMENT

a	KANUPP	Mill Rs	23.738	30.973
b	PASMIC	Mill Rs	1.384	2.576
c	TAPAL	Mill Rs	50.033	56.515
d	GUL AHMED	Mill Rs	23.507	34.929
e	NTDC/WAPDA	Mill Rs	926.096	936.560
f	ANOUD POWER	Mill Rs	11.861	11.515
h	INT IND (IIL)	Mill Rs	9.692	9.060
m	TOTAL	Mill Rs	1,046.311	1,082.128

## 8 O&M PAYMENT (Rs/kWh)

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	2.242
f	ANOUD POWER	Rs/kWh	1.290	1.524
h	INT IND (IIL)	Rs/kWh	1.568	1.615
m	TOTAL	Rs/kWh	1.824	1.870
n	Variation over Base Rate	Rs/kWh	0.268	0.046
o	Variation over Base Rate (8a*1r Mill Rs		153.954	26.620

## 9 CAPACITY PAYMENT

c	TAPAL	Mill Rs	134.834	136.753
d	GUL AHMED	Mill Rs	111.333	121.710
m	TOTAL	Mill Rs	246.166	258.463

## 10 CAPACITY PAYMENT (Rs/ kWh)

c	TAPAL	Rs/kWh	2.689	2.456
d	GUL AHMED	Rs/kWh	2.758	2.065
m	TOTAL	Rs/kWh	0.429	0.447
n	Variation over Base Rate	Rs/kWh	0.025	0.018
o	Variation over Base Rate (10n*: Mill Rs		14.531	10.133

## 11 TOTAL O&M & CAPACITY PAYMENT

a	KANUPP	Mill Rs	23.738	30.973
b	PASMIC	Mill Rs	1.384	2.576
c	TAPAL	Mill Rs	184.866	193.268
d	GUL AHMED	Mill Rs	134.840	156.639
e	NTDC/WAPDA	Mill Rs	926.096	936.560
f	ANOUD POWER	Mill Rs	11.861	11.515
h	INT IND (IIL)	Mill Rs	9.692	9.060
m	TOTAL	Mill Rs	1,292.478	1,340.591

## 12 TOTAL COST WITH O&M AND CAPACITY P

			1,444.15	1,274.87
a	KANUPP	Mill Rs	175.119	217.670
b	PASMIC	Mill Rs	5.311	9.484
c	TAPAL	Mill Rs	754.445	597.706
d	GUL AHMED	Mill Rs	598.545	615.849
e	NTDC/WAPDA	Mill Rs	3,710.441	2,977.643
f	ANOUD POWER	Mill Rs	91.155	61.314
h	INT IND (IIL)	Mill Rs	44.197	40.310
m	TOTAL	Mill Rs	5,379.214	4,519.976

# Work Sheet- Power Purchase Cost Variation

DESCRIPTION	Dec-14	Feb-15
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## 13 COST OF POWER PURCHASE- TOTAL Cost/kWh 8.69

a	KANUPP	Rs/kWh	7.119	6.782
b	PASMIC	Rs/kWh	8.323	7.985
c	TAPAL	Rs/kWh	15.044	10.734
d	GUL AHMED	Rs/kWh	14.829	10.447
e	NTDC/WAPDA	Rs/kWh	8.382	7.128
f	ANOUD POWER	Rs/kWh	9.917	8.115
h	INT IND (IIL)	Rs/kWh	7.149	7.187
m	AVERAGE	Rs/kWh	9.375	7.809

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

a	Average Monthly cost of Pow	Rs/kWh	9.375	7.809
b	Reference Rate - Previous Mont	Rs/kWh	10.625	9.375
c	Increase / Decrease in Average	Rs/kWh	(1.250)	(1.566)
d	Total Power Purchase (Item	Mill kWh	573.769	578.813
e	Increase / Decrease in Total Cos	Mill Rs	(717.117)	(906.521)
f	Adjustment in cost of KANUPP			
g	Unrecovered cost Previous Quarter			
h	Total (e+f+g)		(717.117)	(906.521)

## 15 INCREASE / DERCREASE IN TARIFF

### TO BE ADJUSTED ON QUARTERLY BASIS

a	Total price variation in cost of p	Mill Rs	(717.117)	(906.521)
b	KE - Units Sent Out	Mill kWh	487.906	411.705
c	Power Purchase	Mill kWh	573.769	578.813
d	Total Units Sent Out (b+c)	Mill kWh	1,061.676	990.518
e	Trans & Dist Losses		15.0%	15.0%
f	Units Sold (15d-15e)	Mill kWh	902.424	841.940
g	Increase / Decrease in Tariff			
h	Power Purchase (15a/15f)	Ps/kWh	(79.466)	(107.670)



**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	February-15
Invoice No	ES/KESC-1502
Reading Date	28.02-2015
Issue Date	02-04-2015
Due Date	16-04-2015

Description					
Energy (kWh)					417,728.000
kVarm					
MDI (kw)					710.000

Use Of System Charges	Rate (Rs.)	Amount (Rs.)
Fuel	102 430	72,725.300
Variables	0.2367*1	-
Total		72,725.300

Capacity Transfer Charges	1,216.666908	883,834.925
Energy Transfer Charges	4.523782	1,889,710.407
Energy Transfer Charges	0.362371	151,372.513
Total Transfer Charges		2,904,917.845

Bill for the Month		2,977,643.145
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GST		321,260.769
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Bill Adjustment		-
Energy Charges		-
GST		-
Amort		-

Payable Within Due Date		3,298,893.914
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Addl. DGM Finance (CPPA)