



**THE KARACHI ELECTRIC SUPPLY COMPANY LTD.**

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Ref. No. CMF/NEPRA/071/ 573

February 10, 2010

The Registrar  
National Electric Power Regulatory Authority  
2<sup>ND</sup> Floor, OPF Building, G-5/2  
Islamabad

Dear Sir

Subject: **MONTHLY FUEL SURCHARGE ADJUSTMENT (FSA) DUE TO VARIATION IN FUEL AND POWER PURCHASE PRICE FOR JANUARY 2011**

This is further to our letter no. CMF/NEPRA/071/552 dated 31<sup>st</sup> January, 2011 wherein the requisite data for the monthly fuel adjustment surcharge based on units sent out (without taking into account the effect of T&D losses) for December 2010 was submitted.

**Required Monthly Adjustment:**

The results for January 2011 have been finalized and the summarized position is as under;

DESCRIPTION	January 2011 (Over December 2010)
Fuel Price Variation (Ps/kWh)	(18.776)
Power Purchase Price Variation (Ps/kWh)	13.501
<b>Total Fuel Surcharge Adjustment (Ps/kWh)</b>	<b>(5.724)</b>

It may please be noted that as the invoice for cost of power purchase from NTDC for January 2011 has not been received as yet, the same has been accounted for on a provisional basis, based on the invoice for December 2010.

Furthermore, it is certified that the cost of fuel and power purchase claimed does not include any amount of late payment surcharge/ markup/ interest.

The invoices of IPPs and other requisite data on the captioned subject for January 2011 relating to variation in fuel and power purchase price have been enclosed for your reference.

Best Regards

Abdul Rauf Yousuf  
Director (RA & SP)

Copy to:

Secretary, M/o Water and Power, Islamabad

Mr. Sajjad Muhammad Qureshi, Director Tariff, NEPRA, Islamabad

**K. E. S. C. LTD**

**SUMMARY OF REQUIRED ADJUSTMENT ON ACCOUNT OF VARIATION IN COST OF FUEL AND POWER PURCHASES**

DESCRIPTION		Jan-11
<b>1 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS</b>		
a.	Monthly Variation in	
	i Fuel Price	Mill Rs. (176.479)
	ii Power Purchase Price - Fuel component	Mill Rs. 122.675
	iii Total Monthly Variation ( i + ii ) - Over Reference Tariff	Mill Rs. <b>(53.804)</b>
b.	Units Sent Out	Mill kWh <b>939.935</b>
<b>2</b>		
a.	Monthly Variation in FSA - due to	
	i Fuel Price	Ps/kWh (18.776)
	ii Power Purchase Price - Fuel component	Ps/kWh 13.051
b.	Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh <b>(5.724)</b>
c.	Units Sold at 23% T&D losses	Mill kWh <b>723.750</b>
d.	Increase/ Decrease in Revenue due to FSA	Mill Rs. <b>(41.429)</b>
<b>3</b>	<b>MONTHLY SHORTFALL/(SURPLUS) IN REVENUE ( 1a+iii -2d )</b>	Mill Rs. <b>(12.375)</b>

**Work Sheet- Fuel Price Variation**

DESCRIPTION	Dec-10	Jan-11
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**1 UNITS SENT OUT - KESC**

**1a UNITS SENT OUT ON GAS**

i Bin Qasim	Mill kWh	99.652	136.307
ii Korangi Thermal	Mill kWh	(0.336)	(0.334)
iii Korangi Gas 1	Mill kWh	-	-
iv Korangi Gas 2	Mill kWh	47.854	39.415
v Site Gas 1	Mill kWh	-	-
vi Site Gas 2	Mill kWh	41.044	15.951
vii Korangi combined	Mill kWh	74.758	75.556
viii Total (i to vii)	Mill kWh	262.972	266.894

**1b UNITS SENT OUT ON F. OIL**

i Bin Qasim	Mill kWh	101.438	84.285
ii Korangi Thermal	Mill kWh		
iii Korangi Gas 1	Mill kWh		
iv Korangi Gas 2	Mill kWh		
v Site Gas 1	Mill kWh		
vi Site Gas 2	Mill kWh		
vii Korangi combined	Mill kWh		
viii Total (i to vii)	Mill kWh	101.438	84.285

**1c TOTAL UNITS SENT OUT (1 + 2)**

i Bin Qasim	Mill kWh	201.090	220.592
ii Korangi Thermal	Mill kWh	(0.336)	(0.334)
iii Korangi Gas 1	Mill kWh	-	-
iv Korangi Gas 2	Mill kWh	47.854	39.415
v Site Gas 1	Mill kWh	-	-
vi Site Gas 2	Mill kWh	41.044	15.951
vii Korangi combined	Mill kWh	74.758	75.556
viii Total (i to vii)	Mill kWh	364.409	351.179

**2 HEAT RATE AT BUS BAR**

**2a Heat Rate of GAS - of item 1**

i Bin Qasim	Btu/kWh	10,650	10,650
ii Korangi Thermal	Btu/kWh	13,738	13,738
iii Korangi Gas 1	Btu/kWh	17,039	17,039
iv Korangi Gas 2	Btu/kWh	9,500	9,500
v Site Gas 1	Btu/kWh	17,039	17,039
vi Site Gas 2	Btu/kWh	9,500	9,500
vii Korangi combined	Btu/kWh	9,110	9,110

**2b CONVERSION FACTOR F. OIL - of item 2**

i Bin Qasim	Kg/kWh	0.264	0.264
ii Korangi Thermal	Kg/kWh	0.340	0.340

**3 FUEL PRICES**

- a. Fuel Prices- Gas (Rs/MMBTu)  
b. Fuel Price -F.O (Rs/Kg)

Rs/MMBTu	393.79	393.79
Rs/Kg	44,781	46,102

**4 COST OF FUEL**

**4a COST OF GAS**

i Bin Qasim	Mill Rs	417.932	571.660
ii Korangi Thermal	Mill Rs	(1.816)	(1.805)
iii Korangi Gas 1	Mill Rs	-	-
iv Korangi Gas 2	Mill Rs	179.023	147.451
v Site Gas 1	Mill Rs	-	-
vi Site Gas 2	Mill Rs	153.547	59.670
vii Korangi combined	Mill Rs	268.189	271.053
viii Total (i to vii)	Mill Rs	1,016.876	1,048.029

**4b COST OF FURNACE OIL**

i Bin Qasim	Mill Rs	1,199.196	1,025.823
ii Korangi Thermal	Mill Rs	-	-
iii Korangi Gas 1	Mill Rs	-	-
iv Korangi Gas 2	Mill Rs	-	-
v Site Gas 1	Mill Rs	-	-
vi Site Gas 2	Mill Rs	-	-
vii Korangi combined	Mill Rs	-	-
viii Total (i to vii)	Mill Rs	1,199.196	1,025.823

**4c TOTAL COST OF FUEL**

i Bin Qasim	Mill Rs	1,617.128	1,597.483
ii Korangi Thermal	Mill Rs	(1.816)	(1.805)
iii Korangi Gas 1	Mill Rs	-	-
iv Korangi Gas 2	Mill Rs	179.023	147.451
v Site Gas 1	Mill Rs	-	-
vi Site Gas 2	Mill Rs	153.547	59.670
vii Korangi combined	Mill Rs	268.189	271.053
viii Total	Mill Rs	2,216.072	2,073.853

## Work Sheet- Fuel Price Variation

DESCRIPTION		Dec-10	Jan-11
<b>5 COST OF FUEL PER KWH</b>			
a Bin Qasim	Rs/kWh	8.042	7.242
b Korangi Thermal	Rs/kWh	5.410	5.410
c Korangi Gas 1	Rs/kWh	6.710	6.710
d Korangi Gas 2	Rs/kWh	3.741	3.741
e Site Gas 1	Rs/kWh	-	-
f Site Gas 2	Rs/kWh	3.741	3.741
g Korangi combined	Rs/kWh	3.587	3.587
<b>6 INCREASE/DECREASE IN COST OF FUEL PER KWH</b>			
a Bin Qasim	Rs/kWh	1.140	(0.800)
b Korangi Thermal	Rs/kWh	0.000	(0.000)
c Korangi Gas 1	Rs/kWh	-	0.000
d Korangi Gas 2	Rs/kWh	0.000	(0.000)
e Site Gas 1	Rs/kWh	-	-
f Site Gas 2	Rs/kWh	(0.197)	(0.000)
g Korangi combined	Rs/kWh	0.000	(0.000)
<b>7 INCREASE / DERCREASE IN FUEL COST OVER PREVIOUS MONTH</b>			
a Bin Qasim	Mill Rs	229.146	(176.479)
b Korangi Thermal	Mill Rs	(0.000)	0.000
c Korangi Gas 1	Mill Rs	-	-
d Korangi Gas 2	Mill Rs	(0.000)	(0.000)
e Site Gas 1	Mill Rs	-	-
f Site Gas 2	Mill Rs	(8.079)	(0.000)
g Korangi combined	Mill Rs	(0.000)	(0.000)
h Total (a to g)	Mill Rs	221.065	(176.479)
<b>8 INCREASE / DERCREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</b>			
a Fuel price variation (item 7-h)	Mill Rs	221.065	(176.479)
b Units Sent Out - KESC	Mill kWh	364.409	351.179
c Power Purchase	Mill kWh	585.244	588.756
d Total Units Sent Out (b + c)	Mill kWh	949.654	939.935
e Increase / Decrease in Tariff (8a / 8d x 100) To be passed on to the consumers - FSA	Ps/kWh	23.278	(18.776)
<b>9 INCREASE / DERCREASE IN REVENUE</b>			
a Units Sold	Mill kWh	731.234	723.750
b Increase / Decrease in Tariff	Ps/kWh	23.278	(18.776)
c Increase / Decrease in Revenue (9a / 9b x 100)	Mill Rs	170.220	(135.889)
d Accumulated increase / decrease in revenue	Mill Rs	166.222	(135.889)

## Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Dec-10	Jan-11
<b>1 POWER PURCHASES</b>			
a	KANUPP	Mill kWh	-
b	PASMIC	Mill kWh	7.927
c	TAPAL	Mill kWh	54.082
d	GUL AHMED	Mill kWh	42.509
e	NTDC/WAPDA	Mill kWh	463.209
f	ANOUD POWER	Mill kWh	5.961
g	DHA CO-GEN	Mill kWh	-
h	INT IND (IIL)	Mill kWh	9.595
i	KH FAMA	Mill kWh	-
j	AGGREKO	Mill kWh	-
k	ENGRO	Mill kWh	-
l	AL-ABBAS	Mill kWh	1.962
m	TOTAL	Mill kWh	585.244
<b>2 COST OF POWER PURCHASE - FUEL COST</b>			
a	KANUPP	Mill Rs	-
b	PASMIC	Mill Rs	38.341
c	TAPAL	Mill Rs	543.292
d	GUL AHMED	Mill Rs	442.609
e	NTDC/WAPDA	Mill Rs	2,644.858
f	ANOUD POWER	Mill Rs	47.083
g	DHA CO-GEN	Mill Rs	-
h	INT IND (IIL)	Mill Rs	35.860
i	KH FAMA	Mill Rs	-
j	AGGREKO	Mill Rs	0.046
k	ENGRO	Mill Rs	-
l	AL-ABBAS	Mill Rs	15.830
m	TOTAL	Mill Rs	3,767.919
<b>3 COST OF POWER PURCHASE- Fuel Cost/kWh</b>			
a	KANUPP	Rs/kWh	-
b	PASMIC	Rs/kWh	4.837
c	TAPAL	Rs/kWh	10.046
d	GUL AHMED	Rs/kWh	10.412
e	NTDC/WAPDA	Rs/kWh	5.710
f	ANOUD POWER	Rs/kWh	7.899
g	DHA CO-GEN	Rs/kWh	-
h	INT IND (IIL)	Rs/kWh	3.737
i	KH FAMA	Rs/kWh	-
j	AGGREKO	Rs/kWh	-
k	ENGRO	Rs/kWh	#DIV/0!
l	AL-ABBAS	Rs/kWh	8.069
m	AVERAGE	Rs/kWh	6.438
<b>4 INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS</b>			
a	Average Monthly Fuel cost of Power Purchase (Item 3m)	Rs/kWh	6.438
b	Reference Rate - Previous Month	Rs/kWh	5.254
c	Increase / Decrease in Average Rate of Power Purchase (4a-4b)	Rs/kWh	1.185
d	Total Power Purchase (Item 1m)	Mill kWh	585.244
e	Increase / Decrease in Fuel Cost of Power Purchase (4c*4d)	Mill Rs	693.274
<b>5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</b>			
a	Fuel price variation in cost of power purchase (Item 4a)		693.274
b	Units Sent Out - KESC	Mill kWh	364.409
c	Power Purchase	Mill kWh	585.244
d	Total Units Sent Out (b + c)	Mill kWh	949.654
e	Increase / Decrease in Tariff (5a / 5d x 100) To be passed on to the consumers - FSA	Ps/kWh	73.003
<b>6 INCREASE / DECREASE IN REVENUE</b>			
a	Units Sold	Mill kWh	731.234
b	Increase / Decrease in Tariff (item 5e)	Ps/kWh	73.003
c	Increase / Decrease in Revenue (6a / 6b x100)	Mill Rs	533.821
d	Accumulated increase / decrease in revenue	Mill Rs	769.553

**Break of Cost of Power Purchases**

DESCRIPTION		Dec-10	Jan-11
<b>1 KANUPP</b>			
Units Purchased	Mill kWh	-	-
Fuel Cost	Mill Rs	-	-
Variable O & M	Mill Rs	-	-
Total Cost	Mill Rs	-	-
<b>RATE OF PURCHASE FROM KANUPP</b>		<b>91.950955</b>	<b>152.956294</b>
Fuel Cost	Rs/kWh	6.630210	7.145280
Variable O & M	Rs/kWh	0.518580	0.518580
Total Cost	Rs/kWh	#DIV/0!	#DIV/0!
<b>2 PASMIC</b>			
Units Purchased	Mill kWh	7.926724	6.712408
Fuel Cost	Mill Rs	38.341485	47.962037
Variable O & M	Mill Rs	1.165228	11.128971
Total Cost	Mill Rs	<b>39.506713</b>	<b>59.091008</b>
<b>RATE OF PURCHASE FROM PASMIC</b>			
Fuel Cost	Rs/kWh	4.836990	7.145280
Variable O & M	Rs/kWh	0.147000	1.657970
Total Cost	Rs/kWh	<b>4.983990</b>	<b>8.803250</b>
<b>3 Tapal Energy Ltd.</b>			
Units Purchased	Mill kWh	54.082400	55.349200
Fuel cost	Mill Rs	543.292331	571.083814
Variable O & M	Mill Rs	41.724572	43.770147
Total Energy Purchase Price	Mill Rs	585.016902	614.853961
Capacity Purchase Price	Mill Rs	109.749065	111.001294
Total Cost	Mill Rs	694.765967	725.855255
<b>RATE OF PURCHASE FROM TAPAL</b>			
Fuel cost	Rs/kWh	10.046	10.318
Variable O & M	Rs/kWh	0.772	0.791
Total Energy Purchase Price	Rs/kWh	10.817	11.109
Capacity Purchase Price	Rs/kWh	2.029	2.005
Total Cost	Rs/kWh	12.846	13.114
<b>4 Gul Ahmed Energy Ltd.</b>			
Units Purchased	Mill kWh	42.508824	45.865531
Fuel cost	Mill Rs	442.608593	488.972619
Variable O & M	Mill Rs	19.145974	21.171529
Total Energy Purchase Price	Mill Rs	461.754567	510.144148
Capacity Purchase Price	Mill Rs	98.852369	100.494786
Total Cost	Mill Rs	560.606936	610.638934
<b>RATE OF PURCHASE FROM GUL AHMED</b>			
Fuel cost	Rs/kWh	10.412	10.661
Variable O & M	Rs/kWh	0.450	0.462
Total Energy Purchase Price	Rs/kWh	10.863	11.123
Capacity Purchase Price	Rs/kWh	2.325	2.191
Total Cost	Rs/kWh	13.188	13.314
<b>5 NTDC/WAPDA</b>			
Units Imported	Mill kWh	463.209000	468.144000
Maximum Demand	MW	750	750
Use of system charges	Mill Rs	75.112500	75.112500
Energy Transfer Charges			
- Capacity Transfer charges	Mill Rs	571.630118	571.630118
- Energy Transfer Charges I	Mill Rs	2,607.843046	2,635.626844
- Energy Transfer Charges II	Mill Rs	87.967558	88.904759
Adjustment for Finance Cost to IPPs		(50.952990)	(51.495840)
Total Energy Transfer Charges	Mill Rs	3,216.487732	3,244.665881
Total Cost without GST	Mill Rs	3,291.600232	3,319.778381
GST @ 17%	Mill Rs	443.333318	448.056564
Total Cost With GST	Mill Rs	3,734.933550	3,767.834945

## Break of Cost of Power Purchases

DESCRIPTION		Dec-10	Jan-11
<b><u>RATE OF PURCHASE FROM NTDC</u></b>			
Use of system charges	Rs/kWh	0.162	0.160
Energy Transfer Charges			
- Capacity Transfer charges	Rs/kWh	1.234	1.221
- Energy Transfer Charges I	Rs/kWh	5.630	5.630
- Energy Transfer Charges II	Rs/kWh	0.190	0.190
Adjustment for Finance Cost		(0.110)	(0.110)
Total Energy Transfer Charges	Rs/kWh	6.944	6.931
Total Cost without GST	Rs/kWh	7.106	7.091
GST @ 17%	Rs/kWh	0.957	0.957
Total Cost With GST	Rs/kWh	8.063	8.048
<b>6 <u>ANOUD Power</u></b>			
Units Purchased	Mill kWh	5.960507	6.121696
Energy Charges	Mill Rs	47.082641	50.369927
Variable O & M	Mill Rs	9.489127	9.745740
Total Cost	Mill Rs	56.571768	60.115667
GST @ 17%		9.617201	10.219663
		66.188969	70.335330
<b><u>RATE OF PURCHASE FROM ANOUD POWER</u></b>			
Energy Charges	Rs/kWh	7.899100	8.228100
Variable O & M	Rs/kWh	1.592000	1.592000
Total Cost	Rs/kWh	9.491100	9.820100
<b>7 <u>DHA Co-gen</u></b>			
Units Purchased	Mill kWh	-	-
Energy Charges-Fuel	Mill Rs	-	-
Variable O&M			
Fixed Charges	Mill Rs		
Total Cost	Mill Rs	-	-
<b><u>RATE OF PURCHASE FROM DHA CO-GEN</u></b>			
Energy Charges	Rs/kWh	-	-
Variable O & M			
Fixed Charges	Rs/kWh	-	-
Total Cost	Rs/kWh	-	-
<b>8 <u>IIL INDUSTRIES - Original Invoice</u></b>			
Units Purchased	Mill kWh	9.125169	6.083464
Fuel Cost	Mill Rs	34.192008	22.794740
Variable and other charges	Mill Rs	14.104313	9.678791
Differential due to increase in borrowing cost	Mill Rs	0.548444	0.383258
Amount excluding GST	Mill Rs	48.844765	32.856789
GST @ 17%	Mill Rs	8.303610	5.585654
Amount payable with GST	Mill Rs	57.148375	38.442443
<b><u>Rate of Purchase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.747000	3.747000
Variable and other charges	Rs/kWh	1.545649	1.591000
Differential due to increase in borrowing cost	Rs/kWh	0.060102	0.063000
Rate excluding GST		5.352752	5.401000
GST @ 17%		0.909968	0.918170
Rate with GST		6.262720	6.319170
<b><u>IIL Industries - Verified for Payment</u></b>			
Units Purchased	Mill kWh	9.125169	6.083464
Fuel Cost	Mill Rs	34.192008	22.794740
Variable and other charges	Mill Rs	14.104313	9.678791
Differential due to increase in borrowing cost	Mill Rs	0.548444	0.383258
Amount excluding GST	Mill Rs	48.844765	32.856789
GST @ 17%	Mill Rs	8.303610	5.585654
Amount payable with GST	Mill Rs	57.148375	38.442443
<b><u>Rate of Purchase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.747000	3.747000
Variable and other charges	Rs/kWh	1.545649	1.591000
Differential due to increase in borrowing cost	Rs/kWh	0.060102	0.063000
Rate excluding GST		5.352752	5.401000
GST @ 17%		0.909968	0.918170
Rate with GST		6.262720	6.319170
<b><u>IIL INDUSTRIES 4 MW- Original Invoice</u></b>			
Units Purchased	Mill kWh	0.469990	0.421887
Fuel Cost	Mill Rs	1.667995	1.497277
Variable and other charges	Mill Rs	0.731304	0.656456
Differential due to increase in borrowing cost	Mill Rs		
Amount excluding GST	Mill Rs	2.399299	2.153733
GST @ 17%	Mill Rs	0.407881	0.366135
Amount payable with GST	Mill Rs	2.807180	2.519868

Break of Cost of Power Purchases

DESCRIPTION		Dec-10	Jan-11
<b>Rate of Purchase from IIL Industries</b>			
Fuel Cost	Rs/kWh	3.549000	3.549000
Variable and other charges	Rs/kWh	1.556000	1.556000
Differential due to increase in borrowing cost	Rs/kWh	-	-
Rate excluding GST		5.105000	5.105000
GST @ 17%		0.867850	0.867850
Rate with GST		5.972850	5.972850
<b>IIL INDUSTRIES 4 MW- Verified for Payment</b>			
Units Purchased	Mill kWh	0.469990	0.421887
Fuel Cost	Mill Rs	1.667995	1.497277
Variable and other charges	Mill Rs	0.731304	0.656456
Differential due to increase in borrowing cost	Mill Rs	-	-
Amount excluding GST	Mill Rs	2.399299	2.153733
GST @ 17%	Mill Rs	0.407881	0.366135
Amount payable with GST	Mill Rs	2.807180	2.519868
<b>Rate of Purchase from IIL Industries</b>			
Fuel Cost	Rs/kWh	3.549000	3.549000
Variable and other charges	Rs/kWh	1.556000	1.556000
Differential due to increase in borrowing cost	Rs/kWh	-	-
Rate excluding GST		5.105000	5.105000
GST @ 17%		0.867850	0.867850
Rate with GST		5.972850	5.972850
<b>IIL INDUSTRIES COMBINED - Verified for Payment</b>			
Units Purchased	Mill kWh	9.595159	6.505351
Fuel Cost	Mill Rs	35.860003	24.292017
Variable and other charges	Mill Rs	14.835617	10.335247
Differential due to increase in borrowing cost	Mill Rs	0.548444	0.383258
Amount excluding GST	Mill Rs	51.244064	35.010522
GST @ 17%	Mill Rs	8.199050	5.601684
Amount payable with GST	Mill Rs	59.443114	40.612205
<b>RATE OF PURCHASE FROM IIL</b>			
Fuel Cost	Rs/kWh	3.737302	3.734159
Variable and other charges	Rs/kWh	1.546156	1.588730
Differential due to increase in borrowing cost	Rs/kWh	0.057158	0.058914
Rate excluding GST		5.340616	5.381804
GST @ 17%		0.854499	0.861089
Rate with GST		6.195115	6.242892
<b>9 KH FAMA</b>			
Units Purchased	Mill kWh	-	-
Total Cost	Mill Rs	-	-
<b>10 AGGREKO</b>			
Units Purchased	Mill kWh	-	0.057783
Fuel Cost	Mill Rs	0.045834	5.990110
Fixed cost	Mill Rs	186.391530	186.784650
Total Cost	Mill Rs	186.437364	192.774760
Currency Adjustmet		(0.157950)	0.294840
Custom duty Payment		4.535535	4.535535
Mobilization Advance Payment		190.814949	197.605135
<b>Rate of Purchase from AGGREKO</b>			
Fuel Cost	Rs/kWh	#DIV/0!	103.665611
Fixed cost	Rs/kWh	#DIV/0!	3,232.519080
Total Cost	Rs/kWh	#DIV/0!	3,336.184691
Currency Adjustmet		#DIV/0!	5.102539
Custom duty Payment		#DIV/0!	-
Mobilization Advance Payment		#DIV/0!	78.492547
Total Cost		#DIV/0!	3,419.779777
<b>11 ENGRO</b>			
Units Purchased	Mill kWh	-	-
Fuel Cost	Mill Rs	-	-
Variable O & M	Mill Rs	-	-
Total Cost	Mill Rs	-	-
GST @ 17%		-	-
GST @ 17%		-	-
Total Cost with GST		-	-
<b>RATE OF PURCHASE FROM ENGRO</b>			
Fuel Cost	Rs/kWh	-	-
Variable O & M	Rs/kWh	-	-
Total Cost	Rs/kWh	-	-
<b>12 AL-ABBAS</b>			
Units Purchased	Mill kWh	1.961846	-
Energy Charges	Mill Rs	15.830469	-
Variable & Other charges	Mill Rs	0.196185	-
Total Energy Purchase Price	Mill Rs	16.026653	-
Capacity Purchase Price	Mill Rs	1.771823	-
Total Cost	Mill Rs	17.798476	-
GST @ 17%		2.724531	-
		20.523008	-
<b>RATE OF PURCHASE FROM AL-ABBAS</b>			
Fuel cost	Rs/kWh	8.069	#DIV/0!
Variable O & M	Rs/kWh	0.100	#DIV/0!
Total Energy Purchase Price	Rs/kWh	8.169	#DIV/0!
Capacity Purchase Price	Rs/kWh	0.903	#DIV/0!
Total Cost	Rs/kWh	9.072	#DIV/0!



**K. E. S. C. LTD**

**STATION-WISE GENERATION AND SENT OUT - ACTUAL**

DESCRIPTION		Dec-10	Jan-11
<b>1</b>	<b>Units Generated</b>	Mill kWh	
i	Bin Qasim	216 212930	234 697985
ii	Korangi Thermal	-	-
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	48 871092	40 320802
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	42 279120	16 582400
vii	Korangi CCPP	80 720393	82 392477
viii	Total KESC	<b>388.083535</b>	<b>373.993664</b>
<b>2</b>	<b>Units Sent out</b>	Mill kWh	
i	Bin Qasim	194 242950	211 231350
ii	Korangi Thermal	(0 335610)	(0 333630)
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	47 853924	39 414666
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	41 044331	15 950586
vii	Korangi CCPP	74 757727	75 556045
viii	Total KESC	<b>357.563322</b>	<b>341.819017</b>
<b>3</b>	<b>Auxiliary Consumption</b>	Mill kWh	
i	Bin Qasim	21 969980	23 466635
ii	Korangi Thermal	0 335610	0 333630
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	1 017168	0 906136
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	1 234789	0 631814
vii	Korangi CCPP	5 962666	6 836432
viii	Total KESC	<b>30.520213</b>	<b>32.174647</b>
<b>4</b>	<b>Auxiliary Consumption</b>		
i	Bin Qasim	10.2%	10.0%
ii	Korangi Thermal	#DIV/0!	#DIV/0!
iii	Korangi Town Gas Turb I	#DIV/0!	#DIV/0!
iv	Korangi Town Gas Turb II	2.1%	2.2%
v	Site Gas Turbine I	#DIV/0!	#DIV/0!
vi	Site Gas Turbine II	2.9%	3.8%
vii	Korangi CCPP	7.4%	8.3%
viii	Total KESC	<b>7.9%</b>	<b>8.6%</b>

**STATION-WISE GENERATION AND SENT OUT AT 6.1% AUXILIARY CON**

DESCRIPTION		Dec-10	Jan-11
<b>5</b>	<b>Units Sent out</b>	Mill kWh	
i	Bin Qasim	201 090067	220 592383
ii	Korangi Thermal	(0 335610)	(0 333630)
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	47 853924	39 414666
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	41 044331	15 950586
vii	Korangi CCPP	74 757727	75 556045
viii	Total KESC	<b>364.410439</b>	<b>351.180050</b>
	Check	364.410439	351.180050
<b>6</b>	<b>Auxiliary Consumption</b>	Mill kWh	
i	Bin Qasim	15 122863	14 105602
ii	Korangi Thermal	0 335610	0 333630
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	1 017168	0 906136
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	1 234789	0 631814
vii	Korangi CCPP	5 962666	6 836432
viii	Total KESC	<b>23.673096</b>	<b>22.813614</b>
<b>7</b>	<b>Auxiliary Consumption at 6.1%</b>		
i	Bin Qasim	7.0%	6.0%
ii	Korangi Thermal	0.0%	0.0%
iii	Korangi Town Gas Turb I	0.0%	#DIV/0!
iv	Korangi Town Gas Turb II	2.1%	2.2%
v	Site Gas Turbine I	0.0%	0.0%
vi	Site Gas Turbine II	2.9%	3.8%
vii	Korangi CCPP	7.4%	8.3%
viii	Total KESC	<b>6.1%</b>	<b>6.1%</b>

**K. E. S. C. LTD**

**STATION-WISE GENERATION AND SENT OUT - ACTUAL**

DESCRIPTION	Dec-10	Jan-11
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**WORKING OF GENERATION ON GAS AND FURNACE OIL AND COST OF**

DESCRIPTION	Dec-10
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**8 Fuel Consumption at BQPS**

**a Gas Consumption**

000 CM	35,506,230	50,606,672
MMCF	1,260,255	1,796,228
MMCFD	40.65	57.94
BTU/MCF	923,970	902,710
Million BTU	1,164,438	1,621,473
	49.6%	61.8%

**b Furnace Oil consumption**

M. Ton	29,374.42	24,847.51
BTU/M. Ton	40,351,500	40,351,500
Million BTU	1,185,302	1,002,634
	50.4%	38.2%

**c Total fuel consumption**

Million BTU	2,349,740	2,624,108
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**9 Sent out - BQPS**

**a On gas**

Mill kWh	99,652,254	136,307,166
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**b On Furnace Oil**

Mill kWh	101,437,813	84,285,218
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Mill kWh	201,090,067	220,592,383
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**10 Generation on Gas**

Mill kWh

i Bin Qasim	99,652,254	136,307,166
ii Korangi Thermal	(0,335,610)	(0,333,630)
iii Korangi Town Gas Turb I	-	-
iv Korangi Town Gas Turb II	47,853,924	39,414,666
v Site Gas Turbine I	-	-
vi Site Gas Turbine II	41,044,331	15,950,586
vii Korangi CAPP	74,757,727	75,556,045
viii Total KESC	262,972,626	266,894,833

**11 Generation on F.Oil - BQPS**

	101,437,813	84,285,218
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**12 Total Generation at Bus Bar**

	364,410,439	351,180,050
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27.8% 24.0%

**13 Price of Gas**

**a Gas Consumption**

i Bin Qasim

Mill Btu	1,164,438	1,621,473
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ii Korangi Thermal

Mill Btu	-	-
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iii Korangi Town Gas Turb I

Mill Btu	-	-
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iv Korangi Town Gas Turb II

Mill Btu	462,670	390,489
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v Site Gas Turbine I

Mill Btu	-	-
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vi Site Gas Turbine II

Mill Btu	401,347	176,933
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vii Korangi CAPP

Mill Btu	651,329	646,847
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viii Total KESC

Mill Btu	2,679,783	2,835,742
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**b. Cost of Gas Consumed - of item 13a**

i Bin Qasim

Mill Rs.	458,543	638,520
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ii Korangi Thermal

Mill Rs.	0.013	0.013
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iii Korangi Town Gas Turb I

Mill Rs.	-	-
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iv Korangi Town Gas Turb II

Mill Rs.	182,195	153,770
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v Site Gas Turbine I

Mill Rs.	-	-
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vi Site Gas Turbine II

Mill Rs.	158,046	69,674
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vii Korangi CAPP

Mill Rs.	256,486	254,722
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viii Total KESC

Mill Rs.	1,055,283	1,116,699
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**c. Gas Price (item 13b / item 13a)**

i Bin Qasim

Rs/Mill Btu	393.79	393.79
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ii Korangi Thermal

Rs/Mill Btu	#DIV/0!	#DIV/0!
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iii Korangi Town Gas Turb I

Rs/Mill Btu	-	-
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iv Korangi Town Gas Turb II

Rs/Mill Btu	393.79	393.79
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v Site Gas Turbine I

Rs/Mill Btu	-	-
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vi Site Gas Turbine II

Rs/Mill Btu	393.79	393.79
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vii Korangi CAPP

Rs/Mill Btu	393.79	393.79
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viii Total KESC

Rs/Mill Btu	393.79	393.79
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**14 Price of Furnace Oil**

a. Quantity

M. Ton	29,374.42	24,847.51
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b. Cost of Furnace Oil

Mill Rs.	1,315,406	1,145,527
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c. Furnace oil Price

Rs/M. Ton	44,780.67	46,102.27
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**Gross Generation on Gas**

	107,146,545	145,023,217
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**Gross Generation on Furnace oil**

	109,066,385	89,674,768
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**Total Gross Generation at BQPS**

	216,212,930	234,697,985
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**Sent out on Gas**

	99,652,254	136,307,166
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**Sent out on Furnace oil**

	101,437,813	84,285,218
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**Total Sent out at BQPS**

	201,090,067	220,592,383
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