



**THE KARACHI ELECTRIC SUPPLY COMPANY LTD.**

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Ref. No.CMF/NEPRA/071/421  
November 15, 20105

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 OCTOBER 2010**

This is further to our letter no. CMF/NEPRA/071/362 dated 22<sup>nd</sup> October 2010 wherein the requisite data for the required monthly fuel adjustment surcharge based on units sent out (without taking into account the effect of T&D losses) for September 2010 was submitted.

**Required Monthly Adjustment:**

The results for October 2010 have been finalized and the summarized position in respect of monthly fuel surcharge adjustment based on units sent out (without taking into account the effect of T&D losses) for the month is as under;


DESCRIPTION	October 2010 (Over September 2010)
Fuel Price Variation (Ps/kWh)	28.833
Power Purchase Price Variation (Ps/kWh)	8.273
<b>Total Fuel Surcharge Adjustment (Ps/kWh)</b>	<b>37.106</b>

It may please be noted that the cost of power purchase from NTDC for October 2010 has been accounted for on a provisional basis, taking into account the rates for September 2010 as the invoice for October 2010 has not been received as yet.

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

The requisite data on the captioned subject for October 10 relating to variation in fuel and power purchase price has 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

*Handwritten notes:*  
Mr. Ali Jazir (ADP-III)  
22/11/10

**K. E. S. C. LTD****SUMMARY OF REQUIRED ADJUSTMENT ON ACCOUNT OF VARIATION IN COST OF FUEL AND POWER PURCHASES**

DESCRIPTION	Oct-10
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**1 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS**

a. Monthly Variation in		
i Fuel Price	Mill Rs.	396.173
ii Power Purchase Price - Fuel component	Mill Rs.	113.677
iii Total Monthly Variation ( i + ii ) - Over Reference Tariff	Mill Rs.	<b>509.850</b>
b. Units Sent Out	Mill kWh	<b>1,374.024</b>

2 a. Monthly Variation in FSA - due to		
i Fuel Price	Ps/kWh	28.833
ii Power Purchase Price - Fuel component	Ps/kWh	8.273
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	<b>37.106</b>
c Units Sold at 25% T&D losses	Mill kWh	<b>1,057.998</b>
d Increase/ Decrease in Revenue due to FSA	Mill Rs.	<b>392.584</b>
<b>3 MONTHLY SHORTFALL/(SURPLUS) IN REVENUE ( 1a+ii -2d )</b>	Mill Rs.	<b>117.265</b>

## Work Sheet- Fuel Price Variation

		Sep-10	Oct-10
<b>1 UNITS SENT OUT - KESC</b>			
<b>1a UNITS SENT OUT ON GAS</b>			
i Bin Qasim	Mill kWh	233.482	172.196
ii Korangi Thermal	Mill kWh	35.580	33.898
iii Korangi Gas 1	Mill kWh	-	-
iv Korangi Gas 2	Mill kWh	59.268	61.654
v Site Gas 1	Mill kWh	-	-
vi Site Gas 2	Mill kWh	57.995	45.902
vii Korangi combined	Mill kWh	120.279	112.735
viii Total (i to vii)	Mill kWh	506.605	426.386
<b>1b UNITS SENT OUT ON F. OIL</b>			
i Bin Qasim	Mill kWh	166.845	218.579
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	166.845	218.579
<b>1c TOTAL UNITS SENT OUT (1 + 2)</b>			
i Bin Qasim	Mill kWh	400.327	390.776
ii Korangi Thermal	Mill kWh	35.580	33.898
iii Korangi Gas 1	Mill kWh	-	-
iv Korangi Gas 2	Mill kWh	59.268	61.654
v Site Gas 1	Mill kWh	-	-
vi Site Gas 2	Mill kWh	57.995	45.902
vii Korangi combined	Mill kWh	120.279	112.735
viii Total (i to vii)	Mill kWh	673.450	644.965
<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 Korangi Thermal	Btu/kWh	13,738	13,738
iii Korangi Gas 1	Btu/kWh	17,039	17,039
iv Korangi Gas 2	Btu/kWh	9,600	9,600
v Site Gas 1	Btu/kWh	17,039	17,039
vi Site Gas 2	Btu/kWh	10,000	10,000
vii Korangi combined	Btu/kWh	9,110	9,110
<b>2b CONVERSION FACTOR F. OIL - of item 2</b>			
i Bin Qasim	Kg/kWh	0.264	0.264
ii Korangi Thermal	Kg/kWh	0.340	0.340
<b>3 FUEL PRICES</b>			
a. Fuel Prices- Gas (Rs/MMBTu)	Rs/MMBTu	393.79	393.79
b. Fuel Price -F.O (Rs/Kg)	Rs/Kg	40,602	41,093
<b>4 COST OF FUEL</b>			
<b>4a COST OF GAS</b>			
i Bin Qasim	Mill Rs	979.191	722.168
ii Korangi Thermal	Mill Rs	192.486	183.387
iii Korangi Gas 1	Mill Rs	-	-
iv Korangi Gas 2	Mill Rs	221.724	230.647
v Site Gas 1	Mill Rs	-	-
vi Site Gas 2	Mill Rs	228.378	180.757
vii Korangi combined	Mill Rs	431.493	404.430
viii Total (i to vii)	Mill Rs	2,053.272	1,721.389
<b>4b COST OF FURNACE OIL</b>			
i Bin Qasim	Mill Rs	1,783.978	2,371.248
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	1,783.978	2,371.248
<b>4c TOTAL COST OF FUEL</b>			
i Bin Qasim	Mill Rs	2,763.168	3,093.416
ii Korangi Thermal	Mill Rs	192.486	183.387
iii Korangi Gas 1	Mill Rs	-	-
iv Korangi Gas 2	Mill Rs	221.724	230.647
v Site Gas 1	Mill Rs	-	-
vi Site Gas 2	Mill Rs	228.378	180.757
vii Korangi combined	Mill Rs	431.493	404.430
viii Total	Mill Rs	3,837.249	4,092.636



## Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Sep-10	Oct-10	
<b>1 POWER PURCHASES</b>				
a	KANUPP	Mill kWh	53.465280	36.800544
b	PASMIC	Mill kWh	8.333688	7.390548
c	TAPAL	Mill kWh	61.043500	75.667900
d	GUL AHMED	Mill kWh	61.214895	82.541290
e	NTDC/WAPDA	Mill kWh	434.855000	471.457000
f	ANOUD POWER	Mill kWh	6.202188	6.341338
g	DHA CO-GEN	Mill kWh	-	-
h	INT IND (IIL)	Mill kWh	9.898423	9.830239
i	KH FAMA	Mill kWh	-	-
j	AGGREKO	Mill kWh	35.237886	29.753828
k	ENGRO	Mill kWh	-	-
l	AL-ABBAS	Mill kWh	8.726156	9.275844
m	TOTAL	Mill kWh	678.977016	729.058531
<b>2 COST OF POWER PURCHASE - FUEL COST</b>				
a	KANUPP	Mill Rs	336.249	254.919
b	PASMIC	Mill Rs	52.411	51.195
c	TAPAL	Mill Rs	562.305	691.958
d	GUL AHMED	Mill Rs	577.092	782.132
e	NTDC/WAPDA	Mill Rs	1,731.706	1,877.464
f	ANOUD POWER	Mill Rs	44.871	46.708
g	DHA CO-GEN	Mill Rs	-	-
h	INT IND (IIL)	Mill Rs	36.960	36.787
i	KH FAMA	Mill Rs	-	-
j	AGGREKO	Mill Rs	155.328	125.932
k	ENGRO	Mill Rs	-	-
l	AL-ABBAS	Mill Rs	70.158	76.769
m	TOTAL	Mill Rs	3,567.079	3,943.865
<b>3 COST OF POWER PURCHASE- Fuel Cost/kWh</b>				
a	KANUPP	Rs/kWh	6.289	6.927
b	PASMIC	Rs/kWh	6.289	6.927
c	TAPAL	Rs/kWh	9.212	9.145
d	GUL AHMED	Rs/kWh	9.427	9.476
e	NTDC/WAPDA	Rs/kWh	3.982	3.982
f	ANOUD POWER	Rs/kWh	7.235	7.366
g	DHA CO-GEN	Rs/kWh	-	-
h	INT IND (IIL)	Rs/kWh	3.734	3.742
i	KH FAMA	Rs/kWh	-	-
j	AGGREKO	Rs/kWh	4.408	4.232
k	ENGRO	Rs/kWh	-	-
l	AL-ABBAS	Rs/kWh	8.040	8.276
m	AVERAGE	Rs/kWh	5.254	5.410
<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		5.410
b	Reference Rate - Previous Month	Rs/kWh		5.254
c	Increase / Decrease in Average Rate of Power Purchase (4a-4b)	Rs/kWh		0.156
d	Total Power Purchase (Item 1m)	Mill kWh		729.059
e	Increase / Decrease in Fuel Cost of Power Purchase (4c*4d)	Mill Rs		113.677
<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)			113.677
b	Units Sent Out - KESC	Mill kWh	673.450	644.965
c	Power Purchase	Mill kWh	678.977	729.059
d	Total Units Sent Out (b + c)	Mill kWh	1,352.427	1,374.024
e	Increase / Decrease in Tariff (5a / 5d x 100) To be passed on to the consumers - FSA	Ps/kWh		8.273
<b>6 INCREASE / DECREASE IN REVENUE</b>				
a	Units Sold	Mill kWh		1,057.998
b	Increase / Decrease in Tariff (Item 5e)	Ps/kWh		8.273
c	Increase / Decrease in Revenue (6a / 6b x100)	Mill Rs		87.531
d	Accumulated Increase / decrease in revenue	Mill Rs		87.531

**Break of Cost of Power Purchases**

DESCRIPTION		Sep-10	Oct-10
<b>1 KANUPP</b>			
Units Purchased	Mill kWh	53.465280	36.800544
Fuel Cost	Mill Rs	336.249027	254.919208
Variable O & M	Mill Rs	19.907262	13.702315
<b>Total Cost</b>	<b>Mill Rs</b>	<b>356.156289</b>	<b>268.621523</b>
<b><u>RATE OF PURCHASE FROM KANUPP</u></b>			
Fuel Cost	Rs/kWh	6.289110	6.927050
Variable O & M	Rs/kWh	0.372340	0.372340
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>6.661450</b>	<b>7.299390</b>
<b>2 PASMIC</b>			
Units Purchased	Mill kWh	8.333688	7.390548
Fuel Cost	Mill Rs	52.411481	51.194696
Variable O & M	Mill Rs	8.737038	7.748251
<b>Total Cost</b>	<b>Mill Rs</b>	<b>61.148519</b>	<b>58.942946</b>
<b><u>RATE OF PURCHASE FROM PASMIC</u></b>			
Fuel Cost	Rs/kWh	6.289110	6.927050
Variable O & M	Rs/kWh	1.048400	1.048400
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>7.337510</b>	<b>7.975450</b>
<b>3 Tapal Energy Ltd.</b>			
Units Purchased	Mill kWh	61.043500	75.667900
Fuel cost	Mill Rs	562.304576	691.957987
Variable O & M	Mill Rs	47.095060	58.377785
Total Energy Purchase Price	Mill Rs	609.399636	750.335772
Capacity Purchase Price	Mill Rs	108.826310	109.749065
<b>Total Cost</b>	<b>Mill Rs</b>	<b>718.225946</b>	<b>860.084837</b>
<b><u>RATE OF PURCHASE FROM TAPAL</u></b>			
Fuel cost	Rs/kWh	9.212	9.145
Variable O & M	Rs/kWh	0.772	0.772
Total Energy Purchase Price	Rs/kWh	9.983	9.916
Capacity Purchase Price	Rs/kWh	1.783	1.450
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>11.766</b>	<b>11.367</b>
<b>4 Gul Ahmed Energy Ltd.</b>			
Units Purchased	Mill kWh	61.214895	82.541290
Fuel cost	Mill Rs	577.091635	782.132233
Variable O & M	Mill Rs	27.571189	37.176597
Total Energy Purchase Price	Mill Rs	604.662824	819.308830
Capacity Purchase Price	Mill Rs	98.340419	98.852369
<b>Total Cost</b>	<b>Mill Rs</b>	<b>703.003243</b>	<b>918.161199</b>
<b><u>RATE OF PURCHASE FROM GUL AHMED</u></b>			
Fuel cost	Rs/kWh	9.427	9.476
Variable O & M	Rs/kWh	0.450	0.450
Total Energy Purchase Price	Rs/kWh	9.878	9.926
Capacity Purchase Price	Rs/kWh	1.606	1.198
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>11.484</b>	<b>11.124</b>
<b>5 NTDC/WAPDA</b>			
Units Imported	Mill kWh	434.855000	471.457000
Maximum Demand	MW	800	800
Use of system charges	Mill Rs	80.120000	80.120000
Energy Transfer Charges			
- Capacity Transfer charges	Mill Rs	563.674410	563.674410
- Energy Transfer Charges I	Mill Rs	1,648.216121	1,786.947437
- Energy Transfer Charges II	Mill Rs	127.352505	138.071840
Adjustment for Finance Cost to IPPs		(43.862954)	(47.554925)
Total Energy Transfer Charges	Mill Rs	2,339.243036	2,488.693687
Total Cost without GST	Mill Rs	2,419.363036	2,568.813687
GST @ 17%	Mill Rs	280.196741	303.781064
<b>Total Cost With GST</b>	<b>Mill Rs</b>	<b>2,699.559777</b>	<b>2,872.594751</b>

**Break of Cost of Power Purchases**

DESCRIPTION		Sep-10	Oct-10
<b><u>RATE OF PURCHASE FROM NTDC</u></b>			
Use of system charges	Rs/kWh	0.184	0.170
Energy Transfer Charges			
- Capacity Transfer charges	Rs/kWh	1.296	1.196
- Energy Transfer Charges I	Rs/kWh	3.790	3.790
- Energy Transfer Charges II	Rs/kWh	0.293	0.293
Adjustment for Finance Cost		(0.101)	(0.101)
Total Energy Transfer Charges	Rs/kWh	5.379	5.279
Total Cost without GST	Rs/kWh	5.564	5.449
GST @ 17%	Rs/kWh	0.644	0.644
Total Cost With GST	Rs/kWh	6.208	6.093
<b>6 <u>ANOUD Power</u></b>			
Units Purchased	Mill kWh	6.202188	6.341338
Energy Charges	Mill Rs	44.870570	46.707867
Variable O & M	Mill Rs	10.161045	10.389014
Total Cost	Mill Rs	55.031615	57.096881
GST @ 17%		9.355375	9.706470
		64.386990	66.803351
<b><u>RATE OF PURCHASE FROM ANOUD POWER</u></b>			
Energy Charges	Rs/kWh	7.234636	7.365617
Variable O & M	Rs/kWh	1.638300	1.638300
Total Cost	Rs/kWh	8.872936	9.003917
<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	9.245218	9.592818
Fuel Cost	Mill Rs	34.641832	35.944289
Variable and other charges	Mill Rs	14.176942	14.387240
Differential due to increase in borrowing cost	Mill Rs	0.435273	0.487506
Amount excluding GST	Mill Rs	49.254047	50.819035
GST @ 17%	Mill Rs	8.373188	8.639236
Amount payable with GST	Mill Rs	57.627235	59.458271
<b><u>Rate of Purchahase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.747000	3.747000
Variable and other charges	Rs/kWh	1.533435	1.499793
Differential due to increase in borrowing cost	Rs/kWh	0.047081	0.050820
Rate excluding GST		5.327516	5.297613
GST @ 17%		0.905678	0.900594
Rate with GST		6.233194	6.198207
<b><u>IIL Industries - Verified for Payment</u></b>			
Units Purchased	Mill kWh	9.245218	9.592818
Fuel Cost	Mill Rs	34.641832	35.944289
Variable and other charges	Mill Rs	14.176942	14.387240
Differential due to increase in borrowing cost	Mill Rs	0.435273	0.487506
Amount excluding GST	Mill Rs	49.254047	50.819035
GST @ 17%	Mill Rs	8.373188	8.639236
Amount payable with GST	Mill Rs	57.627235	59.458271
<b><u>Rate of Purchahase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.747000	3.747000
Variable and other charges	Rs/kWh	1.533435	1.499793
Differential due to increase in borrowing cost	Rs/kWh	0.047081	0.050820
Rate excluding GST		5.327516	5.297613
GST @ 17%		0.905678	0.900594
Rate with GST		6.233194	6.198207
<b><u>IIL INDUSTRIES 4 MW- Original Invoice</u></b>			
Units Purchased	Mill kWh	0.653205	0.237421
Fuel Cost	Mill Rs	2.318225	0.842607
Variable and other charges	Mill Rs	1.016387	0.369427
Differential due to increase in borrowing cost	Mill Rs		
Amount excluding GST	Mill Rs	3.334612	1.212034
GST @ 17%	Mill Rs	0.566884	0.206046
Amount payable with GST	Mill Rs	3.901495	1.418080

**K E S C LTD.**

**Break of Cost of Power Purchases**

DESCRIPTION	Sep-10	Oct-10
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**Rate of Purchase from IIL Industries**

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

**IIL INDUSTRIES 4 MW- Verified for Payment**

Units Purchased	Mill kWh	0.653205	0.237421
Fuel Cost	Mill Rs	2.318225	0.842607
Variable and other charges	Mill Rs	1.016387	0.369427
Differential due to increase in borrowing cost	Mill Rs	-	-
Amount excluding GST	Mill Rs	3.334612	1.212034
GST @ 17%	Mill Rs	0.566884	0.206046
Amount payable with GST	Mill Rs	3.901495	1.418080

**Rate of Purchase from IIL Industries**

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

**IIL INDUSTRIES COMBINED - Verified for Payment**

Units Purchased	Mill kWh	9.898423	9.830239
Fuel Cost	Mill Rs	36.960056	36.786896
Variable and other charges	Mill Rs	15.193329	14.756667
Differential due to increase in borrowing cost	Mill Rs	0.435273	0.487506
Amount excluding GST	Mill Rs	52.588659	52.031070
GST @ 17%	Mill Rs	8.414185	8.324971
Amount payable with GST	Mill Rs	61.002844	60.356041

**RATE OF PURCHASE FROM IIL**

Fuel Cost	Rs/kWh	3.733934	3.742218
Variable and other charges	Rs/kWh	1.534924	1.501150
Differential due to increase in borrowing cost	Rs/kWh	0.043974	0.049592
Rate excluding GST		5.312832	5.292961
GST @ 17%		0.850053	0.846874
Rate with GST		6.162885	6.139835

**9 KH FAMA**

Units Purchased	Mill kWh	-	-
Total Cost	Mill Rs	-	-

**10 AGGREKO**

Units Purchased	Mill kWh	35.237896	29.753828
Fuel Cost	Mill Rs	155.328040	125.932417
Fixed cost	Mill Rs	180.747450	187.044390
Total Cost	Mill Rs	336.075490	312.976807
Currency Adjustmet		0.096525	0.114075
Custom duty Payment		-	-
Mobilization Advance Payment		4.535535	4.535535
		340.707550	317.626417

**Rate of Purchase from AGGREKO**

Fuel Cost	Rs/kWh	4.407984	4.232478
Fixed cost	Rs/kWh	5.129350	6.286398
Total Cost	Rs/kWh	9.537334	10.518875
Adj of Provisional Currency rates for 29 to 31 March 2010		0.002739	0.003834
Custom duty Payment		-	-
Mobilization Advance Payment		0.128712	0.152435
Total Cost		9.668785	10.675145

**11 ENGRO**

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		-	-

**RATE OF PURCHASE FROM ENGRO**

Fuel Cost	Rs/kWh	-	-
Variable O & M	Rs/kWh	-	-
Total Cost	Rs/kWh	-	-

**12 AL-ABBAS**

Units Purchased	Mill kWh	8.726156	9.275844
Energy Charges	Mill Rs	70.158294	76.769358
Variable & Other charges	Mill Rs	0.872616	0.927584
Total Energy Purchase Price	Mill Rs	71.030910	77.696943
Capacity Purchase Price	Mill Rs	7.698995	7.698995
Total Cost	Mill Rs	78.729905	85.395938
GST @ 17%		12.075255	13.208480
		90.805160	98.604418

**RATE OF PURCHASE FROM AL-ABBAS**

Fuel cost	Rs/kWh	8.040	8.276
Variable O & M	Rs/kWh	0.100	0.100
Total Energy Purchase Price	Rs/kWh	8.140	8.376
Capacity Purchase Price	Rs/kWh	0.882	0.830
Total Cost	Rs/kWh	9.022	9.206



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

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

DESCRIPTION		Sep-10	Oct-10
<b>1</b>	<b>Units Generated</b>	Mill kWh	
i	Bin Qasim	427.084090	417.166800
ii	Korangi Thermal	40.110000	38.140000
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	60.608757	63.049971
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	59.652000	47.307400
vii	Korangi CCGP	129.744335	121.199645
viii	Total KESC	<b>717.199182</b>	<b>686.863816</b>
<b>2</b>	<b>Units Sent out</b>	Mill kWh	
i	Bin Qasim	388.520550	379.257917
ii	Korangi Thermal	35.580323	33.898432
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	59.268497	61.653867
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	57.994991	45.901944
vii	Korangi CCGP	120.279299	112.735372
viii	Total KESC	<b>661.643660</b>	<b>633.447332</b>
<b>3</b>	<b>Auxiliary Consumption</b>	Mill kWh	
i	Bin Qasim	38.563540	37.908883
ii	Korangi Thermal	4.529677	4.241568
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	1.340260	1.396304
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	1.657009	1.405456
vii	Korangi CCGP	9.465036	8.464273
viii	Total KESC	<b>55.555522</b>	<b>53.416484</b>
<b>4</b>	<b>Auxiliary Consumption</b>		
i	Bin Qasim	9.0%	9.1%
ii	Korangi Thermal	11.3%	11.1%
iii	Korangi Town Gas Turb I	#DIV/0!	#DIV/0!
iv	Korangi Town Gas Turb II	2.2%	2.2%
v	Site Gas Turbine I	#DIV/0!	#DIV/0!
vi	Site Gas Turbine II	2.8%	3.0%
vii	Korangi CCGP	7.3%	7.0%
viii	Total KESC	<b>7.7%</b>	<b>7.8%</b>

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

DESCRIPTION		Sep-10	Oct-10
<b>5</b>	<b>Units Sent out</b>	Mill kWh	
i	Bin Qasim	400.326922	390.775708
ii	Korangi Thermal	35.580323	33.898432
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	59.268497	61.653867
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	57.994991	45.901944
vii	Korangi CCGP	120.279299	112.735372
viii	Total KESC	<b>673.450032</b>	<b>644.965123</b>
	Check	673.450032	644.965123
<b>6</b>	<b>Auxiliary Consumption</b>	Mill kWh	
i	Bin Qasim	26.757168	26.391092
ii	Korangi Thermal	4.529677	4.241568
iii	Korangi Town Gas Turb I	-	-
iv	Korangi Town Gas Turb II	1.340260	1.396304
v	Site Gas Turbine I	-	-
vi	Site Gas Turbine II	1.657009	1.405456
vii	Korangi CCGP	9.465036	8.464273
viii	Total KESC	<b>43.749150</b>	<b>41.898693</b>
<b>7</b>	<b>Auxiliary Consumption at 6.1%</b>		
i	Bin Qasim	6.3%	6.3%
ii	Korangi Thermal	11.3%	11.1%
iii	Korangi Town Gas Turb I	#DIV/0!	#DIV/0!
iv	Korangi Town Gas Turb II	2.2%	2.2%
v	Site Gas Turbine I	0.0%	0.0%
vi	Site Gas Turbine II	2.8%	3.0%
vii	Korangi CCGP	7.3%	7.0%
viii	Total KESC	<b>6.1%</b>	<b>6.1%</b>

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

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

DESCRIPTION	Sep-10	Oct-10
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**WORKING OF GENERATION ON GAS AND FURNACE OIL AND COST OF FUEL**

DESCRIPTION	
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**8 Fuel Consumption at BQPS**

**a. Gas Consumption**

000 CM	84,693,047	60,594,401
MMCF	3,006,087	2,150,732
MMCFD	100.20	69.38
BTU/MCF	920,460	927,400
Million BTU	2,766,983	1,994,589
	58.3%	44.1%

**b. Furnace Oil consumption**

M. Ton	49,001.27	62,745.00
BTU/M.Ton	40,351,500	40,351,500
Million BTU	1,977,275	2,531,855
	41.7%	55.9%

**c. Total fuel consumption**

Million BTU	4,744,258	4,526,444
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**9 Sent out - BQPS**

**a. On gas**

Mill kWh	233,481,787	172,196,303
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**b. On Furnace Oil**

Mill kWh	166,845,135	218,579,405
Mill kWh	400,326,922	390,775,708

**10 Generation on Gas**

- i Bin Qasim
- ii Korangi Thermal
- iii Korangi Town Gas Turb I
- iv Korangi Town Gas Turb II
- v Site Gas Turbine I
- vi Site Gas Turbine II
- vii Korangi CCGP
- viii Total KESC

	Mill kWh	Mill kWh
i Bin Qasim	233,481,787	172,196,303
ii Korangi Thermal	35,580,323	33,898,432
iii Korangi Town Gas Turb I	-	-
iv Korangi Town Gas Turb II	59,268,497	61,653,667
v Site Gas Turbine I	-	-
vi Site Gas Turbine II	57,994,991	45,901,944
vii Korangi CCGP	120,279,299	112,735,372
viii Total KESC	506,604,897	426,385,718

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

**12 Total Generation at Bus Bar**

	166,845,135	218,579,405
	673,450,032	644,965,123
	24.8%	33.9%

**13 Price of Gas**

**a. Gas Consumption**

- i Bin Qasim
- ii Korangi Thermal
- iii Korangi Town Gas Turb I
- iv Korangi Town Gas Turb II
- v Site Gas Turbine I
- vi Site Gas Turbine II
- vii Korangi CCGP
- viii Total KESC

Mill Btu	2,766,983	1,994,589
Mill Btu	497,504	481,141
Mill Btu	-	-
Mill Btu	587,638	605,373
Mill Btu	-	-
Mill Btu	561,448	452,572
Mill Btu	1,113,465	1,061,508
Mill Btu	5,527,038	4,595,183

**b. Cost of Gas Consumed - of item 13a**

- i Bin Qasim
- ii Korangi Thermal
- iii Korangi Town Gas Turb I
- iv Korangi Town Gas Turb II
- v Site Gas Turbine I
- vi Site Gas Turbine II
- vii Korangi CCGP
- viii Total KESC

Mill Rs.	1,089,610	785,452
Mill Rs.	195,913	189,468
Mill Rs.	-	-
Mill Rs.	231,407	238,390
Mill Rs.	-	-
Mill Rs.	221,093	178,218
Mill Rs.	438,470	418,010
Mill Rs.	2,176,492	1,809,538

**c. Gas Price (item 13b / item 13a)**

- i Bin Qasim
- ii Korangi Thermal
- iii Korangi Town Gas Turb I
- iv Korangi Town Gas Turb II
- v Site Gas Turbine I
- vi Site Gas Turbine II
- vii Korangi CCGP
- viii Total KESC

Rs/Mill Btu	393.79	393.79
Rs/Mill Btu	393.79	393.79
Rs/Mill Btu	-	-
Rs/Mill Btu	393.79	393.79
Rs/Mill Btu	-	-
Rs/Mill Btu	393.79	393.79
Rs/Mill Btu	393.79	393.79
Rs/Mill Btu	393.79	393.79

**14 Price of Furnace Oil**

- a. Quantity
- b. Cost of Furnace Oil
- c. Furnace oil Price

M. Ton	49,001.27	62,745.00
Mill Rs.	1,984,629	2,578,356
Rs/M.Ton	40,501.58	41,092.62