



**KARACHI ELECTRIC SUPPLY COMPANY LTD.**

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TRF-133  
27/12

Ref. No. DRA&SP/NEPRA/071/ 838  
October 21, 2011

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

For information & note to  
- SA (Tariff)  
- Dir (Tariff)  
cc: M(C&ST)

Dear Sir

Subject: **MONTHLY FUEL COST ADJUSTMENT (FCA) DUE TO VARIATION IN FUEL AND POWER PURCHASE PRICE OF SEPTEMBER 2011**

This is with reference to our submission of monthly fuel cost adjustment based on units sent out for the month of September 2011.

The submission for the month of September is based on the actual invoice received from NTDC on 20<sup>th</sup> Oct' 2011. Besides the units sent out on Gas and Furnace oil at Bin Qasim Power Station have been worked out on the basis of BTUs of Gas and FO consumption at each unit (1 to 6). Whereas, the cost of Furnace Oil has been accounted for as notified by the relevant Authority.

**Required Monthly Adjustment:**

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

DESCRIPTION	September 2011 (Over June 2011)
Fuel Price Variation (Ps/kWh)	(36.659)
Power Purchase Price Variation (Ps/kWh)	(26.101)
<b>Total Fuel Surcharge Adjustment (Ps/kWh)</b>	<b>(62.760)</b>

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

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

5977  
25-10-11

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

DESCRIPTION	Jun-11	Sep-11
<b>1 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS</b>		
a. Monthly Variation in		
i Fuel Price	Mill Rs. 773.478	(471.393)
ii Power Purchase Price - Fuel component	Mill Rs. (338.149)	(335.619)
iii Total Monthly Variation ( i + ii ) - Over Reference Tariff	Mill Rs. <b>435.329</b>	<b>(807.012)</b>
b. Units Sent Out	Mill kWh 1,384.345	1,285.870
<b>2 a. Monthly Variation in FSA - due to</b>		
i Fuel Price	Ps/kWh 55.873	(36.659)
ii Power Purchase Price - Fuel component	Ps/kWh (24.427)	(26.101)
b Monthly Increase/decrease to be passed to Consumers (i+ii)	Ps/kWh 31.447	(62.760)
c Units Sold at 23% T&D losses	Mill kWh 1,065.946	1,015.837
d Increase/ Decrease in Revenue due to FSA	Mill Rs. 335.203	(637.539)
<b>3 MONTHLY SHORTFALL/(SURPLUS) IN REVENUE ( 1aiii -2d )</b>	Mill Rs. 100.126	(169.472)

## Work Sheet- Fuel Price Variation

DESCRIPTION		Jun-11	Sep-11
<b>UNITS SENT OUT - KESC</b>			
<b>1a UNITS SENT OUT ON GAS</b>			
i Bin Qasim	Mill kWh	186.691	215.924
ii Bin Qasim II - CCpp		-	65.532
iii Korangi Thermal	Mill kWh	28.688	35.308
v Korangi Gas 2	Mill kWh	58.363	48.995
vii Site Gas 2	Mill kWh	53.909	36.521
viii Korangi combined	Mill kWh	115.507	68.968
Total (i to viii)	Mill kWh	443.158	471.250
<b>1b UNITS SENT OUT ON F. OIL</b>			
i Bin Qasim	Mill kWh	292.381	159.409
Total (i to viii)	Mill kWh	292.381	159.409
		40%	
<b>1c TOTAL UNITS SENT OUT (1 + 2)</b>			
i Bin Qasim	Mill kWh	479.073	375.333
ii Bin Qasim II - CCpp		-	65.532
iii Korangi Thermal	Mill kWh	28.688	35.308
v Korangi Gas 2	Mill kWh	58.363	48.995
vii Site Gas 2	Mill kWh	53.909	36.521
viii Korangi combined	Mill kWh	115.507	68.968
Total (i to viii)	Mill kWh	735.539	630.659
<b>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	12,163	12,163
iii Korangi Thermal	Btu/kWh	13,738	13,738
iv Korangi Gas 1	Btu/kWh	17,039	17,039
v Korangi Gas 2	Btu/kWh	9,500	9,500
vi Site Gas 1	Btu/kWh	17,039	17,039
vii Site Gas 2	Btu/kWh	9,500	9,500
viii 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>FUEL PRICES</b>			
a. Fuel Prices- Gas (Rs/MMBTu)	Rs/MMBTu	393.79	447.18
b. Fuel Price -F.O (Rs/Kg)	Rs/Kg	59,286.50	60,679.49
<b>COST OF FUEL</b>			
<b>4a COST OF GAS</b>			
i Bin Qasim	Mill Rs	782.958	1,028.324
ii Bin Qasim II - CCpp	Mill Rs	-	356.433
iii Korangi Thermal	Mill Rs	155.200	216.910
v Korangi Gas 2	Mill Rs	218.334	208.139
vii Site Gas 2	Mill Rs	201.674	155.148
viii Korangi combined	Mill Rs	414.372	280.962
Total (i to viii)	Mill Rs	1,772.539	2,245.916
<b>4b COST OF FURNACE OIL</b>			
i Bin Qasim	Mill Rs	4,576.245	2,553.632
viii Total (i to viii)	Mill Rs	4,576.245	2,553.632
<b>4c TOTAL COST OF FUEL</b>			
i Bin Qasim	Mill Rs	5,359.203	3,581.956
ii Bin Qasim II - CCpp	Mill Rs	-	356.433
iii Korangi Thermal	Mill Rs	155.200	216.910
v Korangi Gas 2	Mill Rs	218.334	208.139
vii Site Gas 2	Mill Rs	201.674	155.148
viii Korangi combined	Mill Rs	414.372	280.962
Total	Mill Rs	6,348.784	4,799.548

## Work Sheet- Fuel Price Variation

DESCRIPTION	Jun-11	Sep-11
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### COST OF FUEL PER KWH

a Bin Qasim	Rs/kWh	11.187	9.543
b Bin Qasim II - CCPP	Rs/kWh	4.790	5.439
c Korangi Thermal	Rs/kWh	5.410	6.143
e Korangi Gas 2	Rs/kWh	3.741	4.248
g Site Gas 2	Rs/kWh	3.741	4.248
Korangi combined	Rs/kWh	3.587	4.074
		<b>8.631</b>	<b>7.610</b>

### INCREASE/DECREASE IN COST OF FUEL PER KWH

a Bin Qasim	Rs/kWh	1.615	(1.643)
b Bin Qasim II - CCPP	Rs/kWh	4.790	0.649
c Korangi Thermal	Rs/kWh	-	0.733
e Korangi Gas 2	Rs/kWh	-	0.507
g Site Gas 2	Rs/kWh	-	0.507
Korangi combined	Rs/kWh	-	0.486

### INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH

a Bin Qasim	Mill Rs	773.478	(616.754)
b Bin Qasim II - CCPP	Mill Rs	-	42.553
c Korangi Thermal	Mill Rs	-	25.896
e Korangi Gas 2	Mill Rs	-	24.849
g Site Gas 2	Mill Rs	-	18.522
h Korangi combined	Mill Rs	-	33.543
Total (a to g)	Mill Rs	773.478	(471.393)

### INCREASE / DECREASE IN TARIFF

#### TO BE PASSED IN THE MONTHLY BILLS

a Fuel price variation (item 7-h)	Mill Rs	773.478	(471.393)
b Units Sent Out - KESC	Mill kWh	735.539	630.659
c Power Purchase	Mill kWh	648.806	655.212
d Total Units Sent Out (b + c)	Mill kWh	1,384.345	1,285.870
e Increase / Decrease in Tariff (8a / 8d x 100)			
To be passed on to the consumers - FSA	Ps/kWh	55.873	(36.659)

### INCREASE / DECREASE IN REVENUE

a Units Sold	Mill kWh	1,065.946	1,015.837
b Increase / Decrease in Tariff	Ps/kWh	55.873	(36.659)
c Increase / Decrease in Revenue (9a / 9b x 100)	Mill Rs	595.578	(372.400)
d Accumulated increase / decrease in revenue	Mill Rs	227.273	(736.426)
e Unrecovered Cost due to 23% T&D loss			

### INCREASE / DECREASE IN TARIFF

#### TO BE ADJUSTED ON QUARTERLY BASIS

a Fuel price variation - item 8a		773.478	(471.393)
b Units Sent Out - KESC	Mill kWh	735.539	630.659
c Power Purchase	Mill kWh	648.806	655.212
d Total Units Sent Out	Mill kWh	1,384.345	1,285.870
e Trans & Dist Losses		23%	21%
f Units Sold (10d - 10e)	Mill kWh	1,065.946	1,015.837

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

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

DESCRIPTION		Jun-11	Sep-11
<b>1</b>	<b>Units Generated</b>	<b>Mill kWh</b>	
i	Bin Qasim	511.222990	395.682815
ii	Bin Qasim II - 560 MW		74.123283
iii	Korangi Thermal	33.000000	39.910000
v	Korangi Town Gas Turb II	59.740550	50.158477
vii	Site Gas Turbine II	55.242994	37.506862
viii	Korangi CCPP	124.115451	74.246514
	<b>Total KESC</b>	<b>783.321985</b>	<b>671.627951</b>
<b>2</b>	<b>Units Sent out</b>	<b>Mill kWh</b>	
i	Bin Qasim	468.928350	359.532360
ii	Bin Qasim II - 560 MW		65.532400
iii	Korangi Thermal	28.688220	35.308350
v	Korangi Town Gas Turb II	58.362508	48.995052
vii	Site Gas Turbine II	53.909100	36.521100
viii	Korangi CCPP	115.506820	68.968485
	<b>Total KESC</b>	<b>725.394998</b>	<b>614.857747</b>
<b>3</b>	<b>Auxiliary Consumption</b>	<b>Mill kWh</b>	
i	Bin Qasim	42.294640	36.150455
ii	Bin Qasim II - 560 MW		8.590883
iii	Korangi Thermal	4.311780	4.601650
v	Korangi Town Gas Turb II	1.378042	1.163425
vii	Site Gas Turbine II	1.333894	0.985762
viii	Korangi CCPP	8.608631	5.278029
	<b>Total KESC</b>	<b>57.926987</b>	<b>56.770204</b>
<b>4</b>	<b>Auxiliary Consumption</b>		
i	Bin Qasim	8.3%	9.1%
ii	Bin Qasim II - 560 MW		11.6%
iii	Korangi Thermal	13.1%	11.5%
v	Korangi Town Gas Turb II	2.3%	2.3%
vii	Site Gas Turbine II	2.4%	2.6%
viii	Korangi CCPP	6.9%	7.1%
	<b>Total KESC</b>	<b>7.4%</b>	<b>8.5%</b>

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

DESCRIPTION		Jun-11	Sep-11
<b>5</b>	<b>Units Sent out</b>	<b>Mill kWh</b>	
i	Bin Qasim	479.072696	375.333259
ii	Bin Qasim II - 560 MW		65.532400
iii	Korangi Thermal	28.688220	35.308350
v	Korangi Town Gas Turb II	58.362508	48.995052
vii	Site Gas Turbine II	53.909100	36.521100
viii	Korangi CCPP	115.506820	68.968485
	<b>Total KESC</b>	<b>735.539344</b>	<b>630.658646</b>
	<b>Check</b>		
<b>6</b>	<b>Auxiliary Consumption</b>	<b>Mill kWh</b>	
i	Bin Qasim	32.150294	20.349556
ii	Bin Qasim II - 560 MW		8.590883
iii	Korangi Thermal	4.311780	4.601650
v	Korangi Town Gas Turb II	1.378042	1.163425
vii	Site Gas Turbine II	1.333894	0.985762
viii	Korangi CCPP	8.608631	5.278029
	<b>Total KESC</b>	<b>47.782641</b>	<b>40.969305</b>
<b>7</b>	<b>Auxiliary Consumption at 6.1%</b>		
i	Bin Qasim	6.3%	5.1%
ii	Bin Qasim II - 560 MW		11.6%
iii	Korangi Thermal	13.1%	11.5%
v	Korangi Town Gas Turb II	2.3%	2.3%
vii	Site Gas Turbine II	2.4%	2.6%
viii	Korangi CCPP	6.9%	7.1%
	<b>Total KESC</b>	<b>6.1%</b>	<b>6.1%</b>

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

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

DESCRIPTION		Jun-11	Sep-11
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**WORKING OF GENERATION ON GAS AND FURNACE OIL AND COST OF FUEL**

DESCRIPTION		Jun-11	Sep-11
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**8 Fuel Consumption at BQPS**

a. Gas Consumption	000 CM	63,517.421	74,033.918
	MMCF	2,254.481	2,627.753
	MMCFD	75.15	87.59
	BTU/MCF	916,210	906,148
	Million BTU	2,065,578	2,381,132
		39.0%	56.4%
b. Furnace Oil consumption	M. Ton	80,169.13	45,710.15
	BTU/M.Ton	40,351,500	40,351,500
	Million BTU	3,234,945	1,844,473
		61.0%	43.6%
c. Total fuel consumption	Million BTU	5,300,523	4,225,605

Actual Unit-wise Generation on Gas	227.631242
Actual Unit-wise Generation on Furnace Oil	0.575287158
Total actual generation at Bin Qasim	168.051573
	0.424712842
	395.682815

**9 Sent out - BQPS**

a. On gas	Mill kWh	186.691428	215.924404
b. On Furnace Oil	Mill kWh	292.381268	159.408855
	Mill kWh	479.072696	375.333259

**10 Generation on Gas**

	Mill kWh		
i Bin Qasim		186.691428	215.924404
ii Bin Qasim II - 560 MW			65.532400
iii Korangi Thermal		28.688220	35.308350
v Korangi Town Gas Turb II		58.362508	48.995052
vii Site Gas Turbine II		53.909100	36.521100
viii Korangi CCPP		115.506820	68.968485
Total KESC		443.158076	471.249791

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

		292.381268	159.408855
<b>12 Total Generation at Bus Bar</b>		<b>735.539344</b>	<b>630.658646</b>
		39.8%	25.3%
		479.072696	375.333259

**13 Price of Gas**

**a. Gas Consumption**

i Bin Qasim	Mill Btu	2,065,578	2,381,132
ii Bin Qasim II - 560 MW			877,434
iii Korangi Thermal	Mill Btu	439,296	513,176
v Korangi Town Gas Turb II	Mill Btu	579,633	492,944
vii Site Gas Turbine II	Mill Btu	523,791	365,716
viii Korangi CCPP	Mill Btu	1,073,852	602,020
Total KESC	Mill Btu	4,682,150	5,232,421

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

i Bin Qasim	Mill Rs.	813.414	1,064.866
ii Bin Qasim II - 560 MW			392.360
iii Korangi Thermal	Mill Rs.	172.991	229.461
v Korangi Town Gas Turb II	Mill Rs.	228.255	220.414
vii Site Gas Turbine II	Mill Rs.	206.264	163.526
viii Korangi CCPP	Mill Rs.	422.872	269.186
Total KESC	Mill Rs.	1,843.796	2,339.813

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

i Bin Qasim	Rs/Mill Btu	393.79	447.21
ii Bin Qasim II - 560 MW			447.17
iii Korangi Thermal	Rs/Mill Btu	393.79	447.14
v Korangi Town Gas Turb II	Rs/Mill Btu	393.79	447.14
vii Site Gas Turbine II	Rs/Mill Btu	393.79	447.14
viii Korangi CCPP	Rs/Mill Btu	393.79	447.14
Total KESC	Rs/Mill Btu	393.79	447.18

**14 Price of Furnace Oil**

a. Quantity	M. Ton	80,169.13	45,710.15
b. Cost of Furnace Oil	Mill Rs.	4,752.947	2,773.669
c. Adjustment of GLMP	Mill Rs.		
Furnace oil Price	Rs/M.Ton	59,286.50	60,679.49

## Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Jun-11	Sep-11	
<b>1 POWER PURCHASES</b>				
a	KANUPP	Mill kWh	22.207	58.133
b	PASMIC	Mill kWh	1.619	0.667
c	TAPAL	Mill kWh	68.826	61.894
d	GUL AHMED	Mill kWh	63.261	52.403
e	NTDC/WAPDA	Mill kWh	480.337	469.249
f	ANOUD POWER	Mill kWh	5.279	3.280
h	INT IND (IIL)	Mill kWh	7.277	9.587
m	TOTAL	Mill kWh	<b>648.806</b>	<b>655.212</b>
			74.0%	71.6%
<b>2 COST OF POWER PURCHASE - FUEL COST</b>				
a	KANUPP	Mill Rs	201.948	483.467
b	PASMIC	Mill Rs	14.722	5.544
c	TAPAL	Mill Rs	913.874	842.979
d	GUL AHMED	Mill Rs	863.768	727.512
e	NTDC/WAPDA	Mill Rs	3,007.197	2,662.684
f	ANOUD POWER	Mill Rs	53.836	34.252
h	INT IND (IIL)	Mill Rs	27.212	40.682
m	TOTAL	Mill Rs	<b>5,082.557</b>	<b>4,797.120</b>
<b>3 COST OF POWER PURCHASE- Fuel Cost/kWh</b>				
a	KANUPP	Rs/kWh	9.094	8.317
b	PASMIC	Rs/kWh	9.094	8.317
c	TAPAL	Rs/kWh	13.278	13.620
d	GUL AHMED	Rs/kWh	13.654	13.883
e	NTDC/WAPDA	Rs/kWh	6.2606	5.6744
f	ANOUD POWER	Rs/kWh	10.198	10.443
h	INT IND (IIL)	Rs/kWh	3.740	4.244
m	AVERAGE	Rs/kWh	<b>7.834</b>	<b>7.321</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 Power Purchase (Item 3a)	Rs/kWh	7.834	7.321
b	Reference Rate - Previous Month	Rs/kWh	8.355	7.834
c	Increase / Decrease in Average Rate of Power Purchase	Rs/kWh	<b>(0.521)</b>	<b>(0.512)</b>
d	Total Power Purchase (Item 1m)	Mill kWh	648.806	655.212
e	Increase / Decrease in Fuel Cost of Power Purchase (4c Mill Rs)		<b>(338.149)</b>	<b>(335.619)</b>
<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)		<b>(338.149)</b>	<b>(335.619)</b>
b	Units Sent Out - KESC	Mill kWh	735.539	630.659
c	Power Purchase	Mill kWh	648.806	655.212
d	Total Units Sent Out (b + c)	Mill kWh	<b>1,384.345</b>	<b>1,285.870</b>
e	Increase / Decrease in Tariff (5a / 5d x 100)			
	To be passed on to the consumers - FSA	Ps/kWh	<b>(24.427)</b>	<b>(26.101)</b>

**K E S C LTD.**

**Break of Cost of Power Purchases**

DESCRIPTION		Jun-11	Sep-11
<b>1 KANUPP</b>			
Units Purchased	Mill kWh	22,206,624	58,132,800
Fuel Cost	Mill Rs	201,947,927	483,466,505
Variable O & M	Mill Rs	11,515,911	30,146,507
<b>Total Cost</b>	<b>Mill Rs</b>	<b>213,463,838</b>	<b>513,613,012</b>
<b>RATE OF PURCHASE FROM KANUPP</b>			
Fuel Cost	Rs/kWh	9.094040	8.316587
Variable O & M	Rs/kWh	0.518580	0.518580
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>9.612620</b>	<b>8.835167</b>
<b>2 PASMIC</b>			
Units Purchased	Mill kWh	1,618,899	0,666,574
Fuel Cost	Mill Rs	14,722,332	5,543,621
Variable O & M	Mill Rs	2,080,884	0,856,794
<b>Total Cost</b>	<b>Mill Rs</b>	<b>16,803,216</b>	<b>6,400,415</b>
<b>RATE OF PURCHASE FROM PASMIC</b>			
Fuel Cost	Rs/kWh	9.094040	8.316587
Variable O & M	Rs/kWh	1.285370	1.285370
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>10,379,410</b>	<b>9,601,957</b>
<b>3 Tapal Energy Ltd.</b>			
Units Purchased	Mill kWh	68,826,100	61,894,000
Fuel cost	Mill Rs	913,873,629	842,979,227
Variable O & M	Mill Rs	54,427,680	49,682,314
Total Energy Purchase Price	Mill Rs	968,301,309	892,661,541
Capacity Purchase Price	Mill Rs	110,830,938	111,538,815
<b>Total Cost</b>	<b>Mill Rs</b>	<b>1,079,132,247</b>	<b>1,004,200,356</b>
Payment of WWF for the year ended June 30 2009 and 2010			
Payment of WPPF for the year ended June 30 2009 and 2010			
<b>Total Cost</b>		<b>1,079,132,247</b>	<b>1,004,200,356</b>
<b>RATE OF PURCHASE FROM TAPAL</b>			
Fuel cost	Rs/kWh	13,278	13,620
Variable O & M	Rs/kWh	0,791	0,803
Total Energy Purchase Price	Rs/kWh	14,069	14,422
Capacity Purchase Price	Rs/kWh	1,610	1,802
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>15,679</b>	<b>16,225</b>
Adj of WPPF and WWF for the year ended June 30 2009 and 2010		15,679	16,225
<b>4 Gul Ahmed Energy Ltd.</b>			
Units Purchased	Mill kWh	63,261,312	52,402,699
Fuel cost	Mill Rs	863,767,873	727,512,265
Variable O & M	Mill Rs	29,201,422	24,555,905
Total Energy Purchase Price	Mill Rs	892,969,295	752,068,170
Capacity Purchase Price	Mill Rs	100,399,850	101,377,175
<b>Total Cost</b>	<b>Mill Rs</b>	<b>993,369,145</b>	<b>853,445,345</b>
Payment of WWF for the year ended June 30 2009 and 2010			
Payment of WPPF for the year ended June 30 2009 and 2010			
		993,369,145	853,445,345
<b>RATE OF PURCHASE FROM GUL AHMED</b>			
Fuel cost	Rs/kWh	13,654	13,883
Variable O & M	Rs/kWh	0,462	0,469
Total Energy Purchase Price	Rs/kWh	14,116	14,352
Capacity Purchase Price	Rs/kWh	1,587	1,935
<b>Total Cost</b>	<b>Rs/kWh</b>	<b>15,703</b>	<b>16,286</b>
Adj of WPPF and WWF for the year ended June 30 2009 and 2010			
<b>5 NTDC/WAPDA</b>			
Units imported	Mill kWh	480,316,800	469,248,700
Maximum Demand	MW	780	820
Use of system charges	Mill Rs	78,117,000	82,123,000
Energy Transfer Charges			
- Capacity Transfer charges	Mill Rs	640,207,668	801,259,408
- Energy Transfer Charges I	Mill Rs	3,004,833,226	2,634,003,696
- Energy Transfer Charges II	Mill Rs	49,616,870	28,680,481
Adjustment for Finance Cost to IPPs		(47,243,526)	
Total Energy Transfer Charges	Mill Rs	3,694,647,764	3,463,943,585
Total Cost without GST	Mill Rs	3,772,764,764	3,546,066,585
GST @ 16%	Mill Rs	510,819,948	421,440,591
<b>Total Cost With GST</b>	<b>Mill Rs</b>	<b>4,283,584,712</b>	<b>3,967,507,176</b>
<b>RATE OF PURCHASE FROM NTDC</b>			
Use of system charges	Rs/kWh	0,163	0,175
Energy Transfer Charges			
- Capacity Transfer charges	Rs/kWh	1,333	1,708
- Energy Transfer Charges I	Rs/kWh	6,255,7	5,613,2
- Energy Transfer Charges II	Rs/kWh	0,1033	0,0611
Adjustment for Finance Cost		(0,0984)	
Total Energy Transfer Charges	Rs/kWh	7,692	7,382
Total Cost without GST	Rs/kWh	7,854	7,557
GST @ 16%	Rs/kWh	1,063	0,898
<b>Total Cost With GST</b>	<b>Rs/kWh</b>	<b>8,918</b>	<b>8,455</b>
<b>6 ANQUD Power</b>			
Units Purchased	Mill kWh	5,279,084	3,280,092
Energy Charges	Mill Rs	53,836,099	34,252,361
Variable O & M	Mill Rs	8,629,191	5,361,638
<b>Total Cost</b>	<b>Mill Rs</b>	<b>62,465,289</b>	<b>39,613,999</b>
GST @ 16%	Mill Rs	10,619,099	6,338,240



**K E S C LTD.**

**Break of Cost of Power Purchases**

DESCRIPTION		Jun-11	Sep-11
		73.094389	45.952239
<b><u>RATE OF PURCHASE FROM ANOUD POWER</u></b>			
Energy Charges	Rs/kWh	10.198000	10.442500
Variable O & M	Rs/kWh	1.634600	1.634600
Total Cost	Rs/kWh	11.832600	12.077100
<b>8 INTL STEEL - Original Invoice</b>			
Units Purchased	Mill kWh	7.005982	9.144433
Fuel Cost	Mill Rs	26.251415	38.900418
Variable and other charges	Mill Rs	10.747176	14.027560
Differential due to increase in borrowing cost	Mill Rs	0.259221	0.295986
Amount excluding GST	Mill Rs	37.257812	53.223964
GST @ 16%	Mill Rs	6.333828	8.515834
Amount payable with GST	Mill Rs	43.591640	61.739798
<b><u>Rate of Purchase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.747000	4.254000
Variable and other charges	Rs/kWh	1.534000	1.534000
Differential due to increase in borrowing cost	Rs/kWh	0.037000	0.032368
Rate excluding GST		5.318000	5.820368
GST @ 16%		0.904060	0.931259
Rate with GST		6.222060	6.751627
<b><u>Intl. Steel Verified for Payment</u></b>			
Units Purchased	Mill kWh	7.005982	9.144433
Fuel Cost	Mill Rs	26.251415	38.900418
Variable and other charges	Mill Rs	10.747176	14.027560
Differential due to increase in borrowing cost	Mill Rs	0.259221	0.295986
Amount excluding GST	Mill Rs	37.257812	53.223964
GST @ 17%	Mill Rs	6.333828	8.515834
Amount payable with GST	Mill Rs	43.591640	61.739798
<b><u>Rate of Purchase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.747000	4.254000
Variable and other charges	Rs/kWh	1.534000	1.534000
Differential due to increase in borrowing cost	Rs/kWh	0.037000	0.032368
Rate excluding GST		5.318000	5.820368
GST @ 16%		0.904060	0.931259
Rate with GST		6.222060	6.751627
<b><u>IIL INDUSTRIES 4 MW- Original Invoice</u></b>			
Units Purchased	Mill kWh	0.270702	0.442253
Fuel Cost	Mill Rs	0.960721	1.781837
Variable and other charges	Mill Rs	0.449907	0.735024
Differential due to increase in borrowing cost	Mill Rs		
Amount excluding GST	Mill Rs	1.410628	2.516862
GST @ 16%	Mill Rs	0.239807	0.402698
Amount payable with GST	Mill Rs	1.650435	2.919560
<b><u>Rate of Purchase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.549000	4.029000
Variable and other charges	Rs/kWh	1.662000	1.662000
Differential due to increase in borrowing cost	Rs/kWh		
Rate excluding GST		5.211000	5.691000
GST @ 16%		0.885870	0.910560
Rate with GST		6.096870	6.601560
<b><u>IIL INDUSTRIES 4 MW- Verified for Payment</u></b>			
Units Purchased	Mill kWh	0.270702	0.442253
Fuel Cost	Mill Rs	0.960721	1.781837
Variable and other charges	Mill Rs	0.449907	0.735024
Differential due to increase in borrowing cost	Mill Rs		
Amount excluding GST	Mill Rs	1.410628	2.516862
GST @ 16%	Mill Rs	0.239807	0.402698
Amount payable with GST	Mill Rs	1.650435	2.919560
<b><u>Rate of Purchase from IIL Industries</u></b>			
Fuel Cost	Rs/kWh	3.549000	4.029000
Variable and other charges	Rs/kWh	1.662000	1.662000
Differential due to increase in borrowing cost	Rs/kWh		
Rate excluding GST		5.211000	5.691000
GST @ 16%		0.885870	0.910560
Rate with GST		6.096870	6.601560
<b><u>IIL INDUSTRIES COMBINED - Verified for Payment</u></b>			
Units Purchased	Mill kWh	7.276684	9.586686
Fuel Cost	Mill Rs	27.212136	40.682255
Variable and other charges	Mill Rs	11.197083	14.762585
Differential due to increase in borrowing cost	Mill Rs	0.259221	0.295986
Amount excluding GST	Mill Rs	38.668440	55.740826
GST @ 17%	Mill Rs	6.573635	9.475940
Amount payable with GST	Mill Rs	45.242075	65.216766
<b><u>RATE OF PURCHASE FROM IIL</u></b>			
Fuel Cost	Rs/kWh	3.739634	4.243620
Variable and other charges	Rs/kWh	1.538762	1.539905
Differential due to increase in borrowing cost	Rs/kWh	0.035624	0.030875
Rate excluding GST		5.314019	5.814400
GST @ 17%		0.903383	0.988448
Rate with GST		6.217403	6.802848