

**KARACHI ELECTRIC SUPPLY COMPANY LTD.**

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Ref. No. DRA&SP/NEPRA/071/ 868
January 25, 2012

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

Dear Sir

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

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

The submission for the month is based on the actual invoice of NTDC for the month of Dec-11. 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). Further, the cost of Furnace Oil has been accounted for as notified by the relevant Authority.


Required Monthly Adjustment:

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

DESCRIPTION	December 2011 (Over Sep - 11)
Fuel Price Variation (Ps/kWh)	(47.414)
Power Purchase Price Variation (Ps/kWh)	75.191
Total Fuel Surcharge Adjustment (Ps/kWh)	27.777

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

K. E. S. C. LTD

SUMMARY OF REQUIRED ADJUSTMENT ON ACCOUNT OF VARIATION IN COST C

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11
1 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS					
a. Monthly Variation in					
i Fuel Price	Mill Rs.	(471.560)	1,232.735	(258.277)	(470.302)
ii Power Purchase Price - Fuel component	Mill Rs.	(363.905)	296.764	31.255	745.827
iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs.	(835.464)	1,529.500	(227.022)	275.525
b. Units Sent Out	Mill kWh	1,285.870	1,358.678	1,162.618	991.903
2 a. Monthly Variation in FSA - due to					
i Fuel Price	Ps/kWh	(36.672)	90.731	(22.215)	(47.414)
ii Power Purchase Price - Fuel component	Ps/kWh	(28.300)	21.842	2.688	75.191
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	(64.973)	112.573	(19.527)	27.777
c Units Sold at 21% T&D losses	Mill kWh	1,015.837	1,073.355	918.468	783.604
d Increase/ Decrease in Revenue due to FSA	Mill Rs.	(660.017)	1,208.305	(179.348)	217.664
3 MONTHLY SHORTFALL/(SURPLUS) IN REVENUE (1a+ii -2d)	Mill Rs.	(175.447)	321.195	(47.675)	57.860
(Unrecovered Cost)					

Work Sheet- Fuel Price Variation

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11	
1 UNITS SENT OUT - KESC						
1a UNITS SENT OUT ON GAS						
i	Bin Qasim	Mill kWh	215.924	157.001	257.533	184.521
ii	Bin Qasim II - CCPP		65.532	94.606	17.059	29.842
iii	Korangi Thermal	Mill kWh	35.308	37.260	1.241	(0.285)
v	Korangi Gas 2	Mill kWh	48.995	60.740	43.147	25.211
vii	Site Gas 2	Mill kWh	36.521	47.403	36.742	1.236
viii	Korangi combined	Mill kWh	68.968	81.488	80.280	33.574
	Total (i to viii)	Mill kWh	471.250	478.497	436.002	274.098
1b UNITS SENT OUT ON F. OIL						
i	Bin Qasim	Mill kWh	159.409	314.964	144.796	54.582
	Total (i to viii)	Mill kWh	159.409	314.964	144.796	54.582
1c TOTAL UNITS SENT OUT (1 + 2)						
i	Bin Qasim	Mill kWh	375.333	471.965	402.329	239.103
ii	Bin Qasim II - CCPP		65.532	94.606	17.059	29.842
iii	Korangi Thermal	Mill kWh	35.308	37.260	1.241	(0.285)
v	Korangi Gas 2	Mill kWh	48.995	60.740	43.147	25.211
vii	Site Gas 2	Mill kWh	36.521	47.403	36.742	1.236
viii	Korangi combined	Mill kWh	68.968	81.488	80.280	33.574
	Total (i to vii)	Mill kWh	630.659	793.461	580.798	328.680
2 HEAT RATE AT BUS BAR						
2a Heat Rate of GAS - of item 1						
i	Bin Qasim	Btu/kWh	10,650	10,650	10,650	10,650
ii	Bin Qasim II - CCPP	Btu/kWh	12,163	12,163	12,163	12,163
iii	Korangi Thermal	Btu/kWh	13,738	13,738	13,738	13,738
iv	Korangi Gas 1	Btu/kWh	17,039	17,039	17,039	17,039
v	Korangi Gas 2	Btu/kWh	9,500	9,500	9,500	9,500
vi	Site Gas 1	Btu/kWh	17,039	17,039	17,039	17,039
vii	Site Gas 2	Btu/kWh	9,500	9,500	9,500	9,500
viii	Korangi combined	Btu/kWh	9,110	9,110	9,110	9,110
2b CONVERSION FACTOR F. OIL - of item 2						
i	Bin Qasim	Kg/kWh	0.264	0.264	0.264	0.264
ii	Korangi Thermal	Kg/kWh	0.340	0.340	0.340	0.340
3 FUEL PRICES						
a.	Fuel Prices- Gas (Rs/MMBTu)	Rs/MMBTu	447.14	447.14	447.14	447.14
b.	Fuel Price-F.O (Rs/Kg)	Rs/Kg	60,679.49	60,001.29	61,602.76	64,734.91
4 COST OF FUEL						
4a COST OF GAS						
i	Bin Qasim	Mill Rs	1,028.247	747.654	1,226.390	878.698
ii	Bin Qasim II - CCPP	Mill Rs	356.407	514.528	92.779	162.298
iii	Korangi Thermal	Mill Rs	216.894	228.881	7.626	(1.751)
v	Korangi Gas 2	Mill Rs	208.124	258.014	183.282	107.091
vii	Site Gas 2	Mill Rs	155.136	201.361	156.073	5.250
viii	Korangi combined	Mill Rs	280.941	331.940	327.017	136.763
	Total (i to vii)	Mill Rs	2,245.749	2,282.378	1,993.168	1,288.349
4b COST OF FURNACE OIL						
i	Bin Qasim	Mill Rs	2,553.632	4,989.134	2,354.838	932.806
viii	Total (i to vii)	Mill Rs	2,553.632	4,989.134	2,354.838	932.806
4c TOTAL COST OF FUEL						
i	Bin Qasim	Mill Rs	3,581.879	5,736.787	3,581.228	1,811.50427
ii	Bin Qasim II - CCPP	Mill Rs	356.407	514.528	92.779	162.298
iii	Korangi Thermal	Mill Rs	216.894	228.881	7.626	(1.751)
v	Korangi Gas 2	Mill Rs	208.124	258.014	183.282	107.09149
vii	Site Gas 2	Mill Rs	155.136	201.361	156.073	5.250
viii	Korangi combined	Mill Rs	280.941	331.940	327.017	136.763
	Total	Mill Rs	4,799.381	7,271.511	4,348.006	2,221.1553

Work Sheet- Fuel Price Variation

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11	
5 COST OF FUEL PER KWH						
a	Bin Qasim	Rs/kWh	9.543	12.155	8.901	7.576
b	Bin Qasim II - CCpp	Rs/kWh	5.439	5.439	5.439	5.439
c	Korangi Thermal	Rs/kWh	6.143	6.143	6.143	6.143
e	Korangi Gas 2	Rs/kWh	4.248	4.248	4.248	4.248
g	Site Gas 2	Rs/kWh	4.248	4.248	4.248	4.248
	Korangi combined	Rs/kWh	4.073	4.073	4.073	4.073
			7.610109	9.164	7.486	6.757798
6 INCREASE/DECREASE IN COST OF FUEL PER KWH						
a	Bin Qasim	Rs/kWh	(1.643)	2.61191	(0.642)	(1.966940)
b	Bin Qasim II - CCpp	Rs/kWh	0.649	0.00002	-	(0.000)
c	Korangi Thermal	Rs/kWh	0.733	0.00002	-	(0.000)
e	Korangi Gas 2	Rs/kWh	0.507	0.00001	-	(0.000)
g	Site Gas 2	Rs/kWh	0.507	0.00001	-	(0.000)
	Korangi combined	Rs/kWh	0.486	0.00001	-	(0.000)
			(1.021)	1.55419	(0.124)	(0.852311)
7 INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH						
a	Bin Qasim	Mill Rs	(616.831)	1,232.731	(258.277)	(470.301)
b	Bin Qasim II - CCpp	Mill Rs	42.526	0.002	-	(0.001)
c	Korangi Thermal	Mill Rs	25.880	0.001	-	0.000
e	Korangi Gas 2	Mill Rs	24.833	0.001	-	(0.000)
g	Site Gas 2	Mill Rs	18.511	0.001	-	(0.000)
h	Korangi combined	Mill Rs	33.522	0.001	-	(0.000)
	Total (a to g)	Mill Rs	(471.560)	1,232.735	(258.277)	(470.302)
8 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS						
a	Fuel price variation (item 7-h)	Mill Rs	(471.560)	1,232.735	(258.277)	(470.302)
b	Units Sent Out - KESC	Mill kWh	630.659	793.461	580.798	328.680
c	Power Purchase	Mill kWh	655.212	565.217	581.819	663.223
d	Total Units Sent Out (b + c)	Mill kWh	1,285.870	1,358.678	1,162.618	991.903
e	Increase / Decrease in Tariff (8a / 8d x 100) To be passed on to the consumers - FSA	Ps/kWh	(36.672)	90.731	(22.215)	(47.414)
9 INCREASE / DECREASE IN REVENUE						
a	Units Sold	Mill kWh	1,015.837	1,073.355	918.468	783.604
b	Increase / Decrease in Tariff	Ps/kWh	(36.672)	90.731	(22.215)	(47.414)
c	Increase / Decrease in Revenue (9a / 9b x 100)	Mill Rs	(372.532)	973.861	(204.039)	(371.539)
d	Unrecovered Cost due to 21% T&D loss		(99.028)	258.874	(54.238)	(98.763)
10 INCREASE / DECREASE IN TARIFF TO BE ADJUSTED ON QUARTERLY BASIS						
a	Fuel price variation - item 8a		(471.560)	1,232.735	(258.277)	(470.302)
b	Units Sent Out - KESC	Mill kWh	630.659	793.461	580.798	328.680
c	Power Purchase	Mill kWh	655.212	565.217	581.819	663.223
d	Total Units Sent Out	Mill kWh	1,285.870	1,358.678	1,162.618	991.903
e	Trans & Dist Losses		21%	21%	21%	21%
f	Units Sold (10d - 10e)	Mill kWh	1,015.837	1,073.355	918.468	783.604
g	Increase / Decrease in Tariff (10a / 10f x 100) To be passed on to the consumers - Tariff	Ps/kWh	(46.421)	114.849	(28.120)	(60.018)
11 INCREASE / DECREASE IN REVENUE						
a	Units Sold (item 10f)	Mill kWh	1,015.837	1,073.355	918.468	783.604
b	Increase / Decrease in Tariff (item 10g)	Ps/kWh	(46.421)	114.849	(28.120)	(60.018)
c	Increase / Decrease in Revenue (11a x 11b)	Mill Rs	(471.560)	1,232.735	(258.277)	(470.302)

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STATION-WISE GENERATION AND SENT OUT - ACTUAL

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11
1	Units Generated	Mill kwh			
i	Bin Qasim	395.682815	496.599845	427.712290	252.149500
ii	Bin Qasim II - 560 MW	74.123283	107.925256	20.576307	33.862554
iii	Korangi Thermal	39.910000	41.850000	1.700000	-
v	Korangi Town Gas Turb II	50.158477	62.136234	44.220763	25.877171
vii	Site Gas Turbine II	37.506862	48.597695	37.700918	1.562194
viii	Korangi CCPP	74.246514	87.897410	86.618226	36.580600
	Total KESC	671.627951	845.006440	618.528504	350.032319
2	Units Sent out	Mill kwh			
i	Bin Qasim	359.532360	452.824020	390.653010	226.586448
ii	Bin Qasim II - 560 MW	65.532400	94.605800	17.059281	29.841732
iii	Korangi Thermal	35.308350	37.259640	1.241460	(0.285120)
v	Korangi Town Gas Turb II	48.995052	60.739639	43.147039	25.210799
vii	Site Gas Turbine II	36.521100	47.402800	36.741700	1.236000
viii	Korangi CCPP	68.968485	81.487970	80.279712	33.574140
	Total KESC	614.857747	774.319869	569.122202	316.163999
3	Auxiliary Consumption	Mill kwh			
i	Bin Qasim	36.150455	43.775825	37.059280	25.563052
ii	Bin Qasim II - 560 MW	8.590883	13.319456	3.517026	4.020822
iii	Korangi Thermal	4.601650	4.590360	0.458540	0.285120
v	Korangi Town Gas Turb II	1.163425	1.396595	1.073724	0.666672
vii	Site Gas Turbine II	0.985762	1.194895	0.959218	0.326194
viii	Korangi CCPP	5.278029	6.409440	6.338514	3.006460
	Total KESC	56.770204	70.686571	49.406302	33.868320
4	Auxiliary Consumption				
i	Bin Qasim	9.1%	8.8%	8.7%	10.1%
ii	Bin Qasim II - 560 MW	11.6%	12.3%	17.1%	11.9%
iii	Korangi Thermal	11.5%	11.0%	27.0%	#DIV/0!
v	Korangi Town Gas Turb II	2.3%	2.2%	2.4%	2.6%
vii	Site Gas Turbine II	2.6%	2.5%	2.5%	20.9%
viii	Korangi CCPP	7.1%	7.3%	7.3%	8.2%
	Total KESC	8.5%	8.4%	8.0%	9.7%

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

5	Units Sent out	Mill kwh			
i	Bin Qasim	375.333259	471.965198	402.329073	239.102797
ii	Bin Qasim II - 560 MW	65.532400	94.605800	17.059281	29.841732
iii	Korangi Thermal	35.308350	37.259640	1.241460	(0.285120)
v	Korangi Town Gas Turb II	48.995052	60.739639	43.147039	25.210799
vii	Site Gas Turbine II	36.521100	47.402800	36.741700	1.236000
viii	Korangi CCPP	68.968485	81.487970	80.279712	33.574140
	Total KESC	630.658646	793.461047	580.798265	328.680348
	Check				
6	Auxiliary Consumption	Mill kwh			
i	Bin Qasim	20.349556	24.634647	25.383217	13.046703
ii	Bin Qasim II - 560 MW	8.590883	13.319456	3.517026	4.020822
iii	Korangi Thermal	4.601650	4.590360	0.458540	0.285120
v	Korangi Town Gas Turb II	1.163425	1.396595	1.073724	0.666672
vii	Site Gas Turbine II	0.985762	1.194895	0.959218	0.326194
viii	Korangi CCPP	5.278029	6.409440	6.338514	3.006460
	Total KESC	40.969305	51.545393	37.730239	21.351971
7	Auxiliary Consumption at 6.1%				
i	Bin Qasim	5.1%	5.0%	5.9%	5.2%
ii	Bin Qasim II - 560 MW	11.6%	12.3%	17.1%	11.9%
iii	Korangi Thermal	11.5%	11.0%	27.0%	#DIV/0!
v	Korangi Town Gas Turb II	2.3%	2.2%	2.4%	2.6%
vii	Site Gas Turbine II	2.6%	2.5%	2.5%	20.9%
viii	Korangi CCPP	7.1%	7.3%	7.3%	8.2%
	Total KESC	6.1%	6.1%	6.1%	6.1%

WORKING OF GENERATION ON GAS AND FURNACE OIL AND COST OF FUEL

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11	
8	Fuel Consumption at BQPS					
a.	Gas Consumption	000 CM	74,033.918	52,726.067	87,623.640	61,335.069
		MMCF	2,627.753	1,871.454	3,110.105	2,177.021
		MMCFD	87.59	60.37	103.67	70.23
		BTU/MCF	906,148	908,150	909,190	910,570
		Million BTU	2,381,132	1,699,561	2,827,677	1,982,330
			56.4%	32.5%	62.7%	76.3%
b.	Furnace Oil consumption	M. Ton	45,710.15	87,283.52	41,638.60	15,254.53
		BTU/M Ton	40,351,500	40,351,500	40,351,500	40,351,500
		Million BTU	1,844,473	3,522,021	1,680,184	615,543
			43.6%	67.5%	37.3%	23.7%
c.	Total fuel consumption	Million BTU	4,225,605	5,221,582	4,507,860	2,597,873
	Actual Unit-wise Generation on Gas		227.631242	165.1962292	273.780857	194.5893098
			57.53%	33.27%	64.01%	77.17%
	Actual Unit-wise Generation on Furnace Oil		168.051573	331.4036158	153.931433	57.56019019
			42.47%	66.73%	35.99%	22.83%
	Total actual generation at Bin Qasim		395.682815	496.599845	427.71229	252.1495
9	Sent out - BQPS					
a.	On gas	Mill kWh	215.924404	157.001400	257.532928	184.520882
b.	On Furnace Oil	Mill kWh	159.408855	314.963798	144.796145	54.581914
		Mill kWh	375.333259	471.965198	402.329073	239.102797
10	Generation on Gas	Mill kWh				
i.	Bin Qasim		215.924404	157.001400	257.532928	184.520882
ii.	Bin Qasim II - 560 MW		65.532400	94.605800	17.059281	29.841732
iii.	Korangi Thermal		35.308350	37.259640	1.241460	(0.285120)
v.	Korangi Town Gas Turb II		48.995052	60.739639	43.147039	25.210799
vii.	Site Gas Turbine II		36.521100	47.402800	36.741700	1.236000
viii.	Korangi CCPP		68.968485	81.487970	80.279712	33.574140
	Total KESC		471.249791	478.497249	436.002120	274.098433
11	Generation on F.Oil - BQPS		159.408855	314.963798	144.796145	54.581914
12	Tota Generation at Bus Bar		630.658646	793.461047	580.798265	328.680348
			25.3%	39.7%	24.9%	16.6%
			375.333259	566.570998	402.329073	239.102797
13	Price of Gas					
a.	Gas Consumption					
i.	Bin Qasim	Mill Btu	2,381,497	1,699,561	2,827,677	1,982,330
ii.	Bin Qasim II - 560 MW	Mill Btu	877,434	1,285,076	242,594	379,218
iii.	Korangi Thermal	Mill Btu	513,176	547,453	22,389	-
v.	Korangi Town Gas Turb II	Mill Btu	492,944	600,297	424,881	255,104
vii.	Site Gas Turbine II	Mill Btu	365,716	458,235	351,316	15,273
viii.	Korangi CCPP	Mill Btu	602,020	714,292	717,979	289,264
	Total KESC	Mill Btu	5,232,786	5,304,914	4,586,836	2,921,190
b.	Cost of Gas Consumed - of item 13a					
i.	Bin Qasim	Mill Rs.	1,064.866	759.961	1,264.378	886.379
ii.	Bin Qasim II - 560 MW	Mill Rs.	392.360	574.612	108.473	169.563
iii.	Korangi Thermal	Mill Rs.	229.461	244.788	10.011	0.015
v.	Korangi Town Gas Turb II	Mill Rs.	220.414	268.417	189.982	114.056
vii.	Site Gas Turbine II	Mill Rs.	163.526	204.895	157.088	6.829
viii.	Korangi CCPP	Mill Rs.	269.186	319.388	321.038	129.341
	Total KESC	Mill Rs.	2,339.813	2,372.061	2,050.970	1,306.184
c.	Gas Price (item 13b / item 13a)					
i.	Bin Qasim	Rs/Mill Btu	447.14	447.15	447.14	447.14
ii.	Bin Qasim II - 560 MW	Rs/Mill Btu	447.17	447.14	447.14	447.14
iii.	Korangi Thermal	Rs/Mill Btu	447.14	447.14	447.14	#DIV/0!
v.	Korangi Town Gas Turb II	Rs/Mill Btu	447.14	447.14	447.14	447.10
vii.	Site Gas Turbine II	Rs/Mill Btu	447.14	447.14	447.14	447.14
viii.	Korangi CCPP	Rs/Mill Btu	447.14	447.14	447.14	447.14
	Total KESC	Rs/Mill Btu	447.14	447.14	447.14	447.14
14	Price of Furnace Oil					
a.	Quantity	M. Ton	45,710.15	87,283.52	41,638.69	15,254.53
b.	Cost of Furnace Oil	Mill Rs.	2,773.669	5,237.123	2,565.058	987.501
c.	Adjustment of GLMP	Mill Rs.				
	Furnace oil Price	Rs/M.Ton	60,679.49	60,001.29	61,602.76	64,734.91

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11
1 POWER PURCHASES					
a	KANUPP Mill kWh	58.133	9.745	-	25.626
b	PASMIC Mill kWh	0.667	1.203	0.677	0.158
c	TAPAL Mill kWh	61.894	74.492	44.846	50.858
d	GUL AHMED Mill kWh	52.403	-	30.723	54.623
e	NTDC/WAPDA Mill kWh	469.249	465.996	492.350	518.162
f	ANOUD POWER Mill kWh	3.280	4.407	4.749	5.199
g	DHA CO-GEN Mill kWh	-	-	-	-
h	INT IND (IIL) Mill kWh	9.587	9.373	8.475	8.597
i	KH FAMA Mill kWh	-	-	-	-
j	AGGREKO Mill kWh	-	-	-	-
k	ENGRO Mill kWh	-	-	-	-
l	AL-ABBAS Mill kWh	-	-	-	-
m	TOTAL Mill kWh	655.212	565.217	581.819	663.223
		71.6%	82.4%	84.6%	78.1%
2 COST OF POWER PURCHASE - FUEL COST					
a	KANUPP Mill Rs	455.181	65.550	-	185.912
b	PASMIC Mill Rs	5.544	11.826	5.490	1.144
c	TAPAL Mill Rs	842.979	1,006.867	619.112	731.523
d	GUL AHMED Mill Rs	727.512	-	440.811	794.146
e	NTDC/WAPDA Mill Rs	2,662.684	3,240.586	3,112.954	3,766.694
f	ANOUD POWER Mill Rs	34.252	45.748	51.518	56.961
h	INT IND (IIL) Mill Rs	40.682	40.010	36.034	36.590
m	TOTAL Mill Rs	4,768.835	4,410.587	4,265.919	5,572.971
3 COST OF POWER PURCHASE- Fuel Cost/kWh					
a	KANUPP Rs/kWh	7.830	6.727	-	7.255
b	PASMIC Rs/kWh	8.317	9.827	8.111	7.255
c	TAPAL Rs/kWh	13.620	13.516	13.805	14.384
d	GUL AHMED Rs/kWh	13.883	-	14.348	14.539
e	NTDC/WAPDA Rs/kWh	5.6744	6.9541	6.3226	7.2693
f	ANOUD POWER Rs/kWh	10.443	10.381	10.849	10.956
h	INT IND (IIL) Rs/kWh	4.244	4.269	4.252	4.256
m	AVERAGE Rs/kWh	7.278	7.803	7.332	8.403
4 INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS					
a	Average Monthly Fuel cost of Power Rs/kWh	7.278	7.803	7.332	8.403
b	Reference Rate - Previous Month Rs/kWh	7.834	7.278	7.278	7.278
c	Increase / Decrease in Average Rate of Rs/kWh	(0.555)	0.525	0.054	1.125
d	Total Power Purchase (Item 1m) Mill kWh	655.212	565.217	581.819	663.223
e	Increase / Decrease in Fuel Cost of Pow Mill Rs	(363.905)	296.764	31.255	745.827
5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS					
a	Fuel price variation in cost of power purchase (Item 4e) Mill kWh	(363.905)	296.764	31.255	745.827
b	Units Sent Out - KESC Mill kWh	630.659	793.461	580.798	328.680
c	Power Purchase Mill kWh	655.212	565.217	581.819	663.223
d	Total Units Sent Out (b + c) Mill kWh	1,285.870	1,358.678	1,162.618	991.903
e	Increase / Decrease in Tariff (5a / 5d x 100) To be passed on to the consumers - F: Ps/kWh	(28.300)	21.842	2.688	75.191
6 INCREASE / DECREASE IN REVENUE					
a	Units Sold Mill kWh	1,015.837	1,073.355	918.468	783.604
b	Increase / Decrease in Tariff (Item 5e) Ps/kWh	(28.300)	21.842	2.688	75.191
c	Increase / Decrease in Revenue (6a / 6 Mill Rs	(287.485)	234.444	24.691	589.203
d	Accumulated increase / decrease in re Mill Rs	(704.554)	234.444	259.135	848.338
e	Unrecovered Cost due to 21% T&D los Mill Rs				
7 O&M PAYMENT					
a	KANUPP Mill Rs	30.147	5.053	-	13.289
b	PASMIC Mill Rs	0.857	1.547	1.547	0.203
c	TAPAL Mill Rs	49.682	59.795	35.998	40.824
d	GUL AHMED Mill Rs	24.556	-	14.397	25.596
e	NTDC/WAPDA Mill Rs	883.382	736.572	1,006.711	924.234
f	ANOUD POWER Mill Rs	5.362	7.204	7.762	8.498
h	INT IND (IIL) Mill Rs	15.059	14.464	13.093	13.269
m	TOTAL Mill Rs	1,009.044	824.635	1,079.508	1,025.914
8 O&M PAYMENT (Rs/kWh)					
a	KANUPP Rs/kWh	0.519	0.519	-	0.519
b	PASMIC Rs/kWh	1.285	1.285	2.285	1.285
c	TAPAL Rs/kWh	0.803	0.803	0.803	0.803
d	GUL AHMED Rs/kWh	0.469	-	0.469	0.469
e	NTDC/WAPDA Rs/kWh	1.883	1.581	2.045	1.784
f	ANOUD POWER Rs/kWh	1.635	1.635	1.635	1.635
h	INT IND (IIL) Rs/kWh	1.571	1.543	1.545	1.543
m	TOTAL Rs/kWh	1.540	1.459	1.855	1.547
n	Variation over Base Rate Rs/kWh	0.252	(0.081)	0.315	0.007
o	Variation over Base Rate (8a*1m) Mill Rs	165.157	(45.814)	183.490	4.532
9 CAPACITY PAYMENT					

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11
a	KANUPP Mill Rs	-	-	-	-
b	PASMIC Mill Rs	-	-	-	-
c	TAPAL Mill Rs	111.539	112.620	112.620	112.620
d	GUL AHMED Mill Rs	101.377	101.977	101.977	101.977
e	NTDC/WAPDA Mill Rs	-	-	-	-
f	ANOUD POWER Mill Rs	-	-	-	-
g	DHA CO-GEN Mill Rs	-	-	-	-
h	INT IND (IIL) Mill Rs	-	-	-	-
i	KH FAMA Mill Rs	-	-	-	-
j	AGGREKO Mill Rs	-	-	-	-
k	ENGRO Mill Rs	-	-	-	-
l	AL-ABBAS Mill Rs	-	-	-	-
m	TOTAL Mill Rs	212.916	214.597	214.597	214.597
10 CAPACITY PAYMENT (Rs/ Kwh)					
c	TAPAL Mill Rs	1.802	1.512	2.511	2.214
d	GUL AHMED Mill Rs	1.935	-	3.319	1.867
m	TOTAL Mill Rs	0.325	0.380	0.369	0.324
n	Variation over Base Rate Rs/kWh	(0.001)	0.055	0.044	(0.001)
o	Variation over Base Rate (10n*1m) Mill Rs	(0.400)	30.926	25.530	(0.922)
11 TOTAL O&M & CAPACITY PAYMENT					
a	KANUPP Mill Rs	30.147	5.053	-	13.289
b	PASMIC Mill Rs	0.857	1.547	1.547	0.203
c	TAPAL Mill Rs	161.221	172.415	148.618	153.444
d	GUL AHMED Mill Rs	125.933	101.977	116.374	127.573
e	NTDC/WAPDA Mill Rs	883.382	736.572	1,006.711	924.234
f	ANOUD POWER Mill Rs	5.362	7.204	7.762	8.498
h	INT IND (IIL) Mill Rs	15.059	14.464	13.093	13.269
m	TOTAL Mill Rs	1,221.960	1,039.232	1,294.105	1,240.511
12 TOTAL COST WITH O&M AND CAPACITY PAYMENT					
a	KANUPP Mill Rs	485.328	70.603	-	199.201
b	PASMIC Mill Rs	6.400	13.373	7.037	1.347
c	TAPAL Mill Rs	1,004.200	1,179.283	767.730	884.966
d	GUL AHMED Mill Rs	853.445	101.977	557.184	921.719
e	NTDC/WAPDA Mill Rs	3,546.067	3,977.158	4,119.665	4,690.928
f	ANOUD POWER Mill Rs	39.614	52.952	59.280	65.460
h	INT IND (IIL) Mill Rs	55.741	54.474	49.127	49.860
m	TOTAL Mill Rs	5,990.795	5,449.820	5,560.024	6,813.482
13 COST OF POWER PURCHASE- TOTAL Cost/kWh					
a	KANUPP Rs/kWh	8.349	7.245	-	7.773
b	PASMIC Rs/kWh	9.602	11.112	10.396	8.540
c	TAPAL Rs/kWh	16.225	15.831	17.119	17.401
d	GUL AHMED Rs/kWh	16.286	-	18.136	16.874
e	NTDC/WAPDA Rs/kWh	7.557	8.535	8.367	9.053
f	ANOUD POWER Rs/kWh	12.077	12.015	12.484	12.591
h	INT IND (IIL) Rs/kWh	5.814	5.812	5.797	5.799
m	AVERAGE Rs/kWh	9.143	9.642	9.556	10.273
14 INCREASE / DECREASE IN POWER PURCHASE COST - TOTAL					
a	Average Monthly cost of Power Purc Rs/kWh	9.143	9.642	9.556	10.273
b	Reference Rate - Previous Month Rs/kWh	9.447	9.143	9.143	9.143
c	Increase / Decrease in Average Rate of Rs/kWh	(0.303944)	0.499	0.413	1.130
d	Total Power Purchase (Item 1m) Mill kWh	655.211551	565.217	581.819	663.223
e	Increase / Decrease in Total Cost of Pov Mill Rs	(199.147626)	281.876	240.275	749.436
f	Adjustment in cost of KANUPP				
g	Unrecovered cost Previous Quarter				
h	Total (e+f+g)	(199.148)	281.876	240.275	749.436
15 INCREASE / DECREASE IN TARIFF TO BE ADJUSTED ON QUARTERLY BASIS					
a	Total price variation in cost of power pt Mill Rs	(199.148)	281.876	240.275	749.436
b	Units Sent Out				
b	KESC Mill kWh	630.659	793.461	580.798	328.680
c	Power Purchase Mill kWh	655.212	565.217	581.819	663.223
d	Total Units Sent Out (b+c) Mill kWh	1,285.870	1,358.678	1,162.618	991.903
e	Trans & Dist Losses	21.0%	21.0%	21.0%	21.0%
f	Units Sold (15d-15e) Mill kWh	1,015.837	1,073.355	918.468	783.604
g	Increase / Decrease in Tariff				
h	Power Purchase (15a/15f) Ps/kWh	(19.604)	26.261	26.160	95.640
16 INCREASE / DECREASE IN REVENUE					
a	Units Sold (Item 15f) Mill kWh	1,015.837	1,073.355	918.468	783.604
b	Increase / Decrease in Tariff (Item 15h) Ps/kWh	(19.604)	26.261	26.160	95.640
c	Increase / Decrease in Revenue (a*b) Mill Rs	(199.148)	281.876	240.275	749.436
d	Accumulated increase / decrease in rev Mill Rs	(590.778)	281.876	522.151	1,271.587

KESCLTD.

Breakup of Cost of Power Purchases

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11
1 KANUPP					
Units Purchased	Mill kWh	58.132800	9.744768	-	25.625952
Fuel Cost	Mill Rs	455.181248	65.549958	-	185.912366
Variable O & M	Mill Rs	30.146507	5.053412	-	13.289106
Total Cost	Mill Rs	485.327755	70.603400	-	199.201472
<u>RATE OF PURCHASE FROM KANUPP</u>					
Fuel Cost	Rs/kWh	7.830024	6.726682	-	7.254847
Variable O & M	Rs/kWh	0.518580	0.518580	-	0.518580
Total Cost	Rs/kWh	8.348604	7.245262	-	7.773427
2 PASMIC					
Units Purchased	Mill kWh	0.666574	1.203427	0.676861	0.157754
Fuel Cost	Mill Rs	5.543621	11.826045	5.489918	1.144481
Variable O & M	Mill Rs	0.856794	1.546849	1.546849	0.202772
Total Cost	Mill Rs	6.400415	13.372894	7.036767	1.347253
<u>RATE OF PURCHASE FROM PASMIC</u>					
Fuel Cost	Rs/kWh	8.316587	9.826973	8.110850	7.254847
Variable O & M	Rs/kWh	1.285370	1.285370	1.285370	1.285370
Total Cost	Rs/kWh	9.601957	11.112343	10.396178	8.540217
3 Tapal Energy Ltd.					
Units Purchased	Mill kWh	61.894000	74.492400	44.846400	50.858000
Fuel cost	Mill Rs	842.979227	1,006.867397	619.111992	731.522615
Variable O & M	Mill Rs	49.682314	59.795049	35.998205	40.823717
Total Energy Purchase Price	Mill Rs	892.661541	1,066.662446	655.110197	772.346332
Capacity Purchase Price	Mill Rs	111.538815	112.620095	112.620095	112.620095
Total Cost	Mill Rs	1,004.200356	1,179.282541	767.730292	884.966427
Payment of WWF for the year ended June 30 2009 and		-	-	-	-
Payment of WPPF for the year ended June 30 2009 and		-	-	-	-
Total Cost		1,004.200356	1,179.282541	767.730292	884.966427
<u>RATE OF PURCHASE FROM TAPAL</u>					
Fuel cost	Rs/kWh	13.620	13.516	13.805	14.384
Variable O & M	Rs/kWh	0.803	0.803	0.803	0.803
Total Energy Purchase Price	Rs/kWh	14.422	14.319	14.608	15.186
Capacity Purchase Price	Rs/kWh	1.802	1.512	2.511	2.214
Total Cost	Rs/kWh	16.225	15.831	17.119	17.401
Adj of WPPF and WWF for the year ended June 30 200		16.225	15.831	17.119	17.401
4 Gul Ahmed Energy Ltd.					
Units Purchased	Mill kWh	52.402699	-	30.723053	54.623270
Fuel cost	Mill Rs	727.512265	-	440.810665	794.145752
Variable O & M	Mill Rs	24.555905	-	14.396823	25.596464
Total Energy Purchase Price	Mill Rs	752.068170	-	455.207488	819.742216
Capacity Purchase Price	Mill Rs	101.377175	101.976872	101.976872	101.976872
Total Cost	Mill Rs	853.445345	101.976872	557.184360	921.719088
Payment of WWF for the year ended June 30 2009 and		-	-	-	-
Payment of WPPF for the year ended June 30 2009 and		-	-	-	-
Total Cost		853.445345	101.976872	557.184360	921.719088
<u>RATE OF PURCHASE FROM GUL AHMED</u>					
Fuel cost	Rs/kWh	13.883	-	14.348	14.539
Variable O & M	Rs/kWh	0.469	-	0.469	0.469
Total Energy Purchase Price	Rs/kWh	14.352	-	14.816	15.007
Capacity Purchase Price	Rs/kWh	1.935	#DIV/0!	3.319	1.867
Total Cost	Rs/kWh	16.286	#DIV/0!	18.136	16.874

Breakup of Cost of Power Purchases

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11	
5	<u>NTDC/WAPDA</u>					
	Units Imported	Mill kWh	469.248700	465.995700	492.349900	518.161500
	Maximum Demand	MW	820	740	850	830
	Use of system charges	Mill Rs	82.123000	74.111000	85.127500	83.124500
	Energy Transfer Charges					
	- Capacity Transfer charges	Mill Rs	801.259408	662.460856	921.583549	841.109722
	- Energy Transfer Charges I	Mill Rs	2,634.003696	3,151.676174	3,021.361782	3,645.372376
	- Energy Transfer Charges II	Mill Rs	28.680481	88.909650	91.591852	121.321815
	Adjustment for Finance Cost to IPPs		-	-	-	-
	Total Energy Transfer Charges	Mill Rs	3,463.943585	3,903.046680	4,034.537183	4,607.803913
	Total Cost without GST	Mill Rs	3,546.066585	3,977.157680	4,119.664683	4,690.928413
	GST @ 16%	Mill Rs	421.440591	504.268188	483.417885	583.259580
	Total Cost With GST	Mill Rs	3,967.507176	4,481.425868	4,603.082568	5,274.187993
	<u>RATE OF PURCHASE FROM NTDC</u>					
	Use of system charges	Rs/kWh	0.175	0.159	0.173	0.160
	Energy Transfer Charges					
	- Capacity Transfer charges	Rs/kWh	1.708	1.422	1.872	1.623
	- Energy Transfer Charges I	Rs/kWh	5.6132	6.7633	6.1366	7.0352
	- Energy Transfer Charges II	Rs/kWh	0.0611	0.1908	0.1860	0.2341
	Adjustment for Finance Cost		-	-	-	-
	Total Energy Transfer Charges	Rs/kWh	7.382	8.376	8.194	8.893
	Total Cost without GST	Rs/kWh	7.557	8.535	8.367	9.053
	GST @ 16%	Rs/kWh	0.898	1.082	0.982	1.126
	Total Cost With GST	Rs/kWh	8.455	9.617	9.349	10.179
6	<u>ANOUD Power</u>					
	Units Purchased	Mill kWh	3.280092	4.407018	4.748612	5.199114
	Energy Charges	Mill Rs	34.252361	45.748372	51.518167	56.961493
	Variable O & M	Mill Rs	5.361638	7.203712	7.762081	8.498472
	Total Cost	Mill Rs	39.613999	52.952084	59.280248	65.459965
	GST @ 16%		6.338240	8.472333	9.484840	10.473594
			45.952239	61.424417	68.765088	75.933559
	<u>RATE OF PURCHASE FROM ANOUD POWER</u>					
	Energy Charges	Rs/kWh	10.442500	10.380800	10.849100	10.956000
	Variable O & M	Rs/kWh	1.634600	1.634600	1.634600	1.634600
	Total Cost	Rs/kWh	12.077100	12.015400	12.483700	12.590600
7	<u>INTL. STEEL - Original Invoice</u>					
	Units Purchased	Mill kWh	9.144433	8.701488	7.747876	7.966178
	Fuel Cost	Mill Rs	38.900418	37.303279	33.106674	34.047445
	Variable and other charges	Mill Rs	14.027560	13.348083	11.885242	12.220117
	Differential due to increase in borrowing c	Mill Rs	0.295986	-	-	-
	Amount excluding GST	Mill Rs	53.223964	50.651362	44.991916	46.267562
	GST @ 16%	Mill Rs	8.515834	8.104218	7.198707	7.402810
	Amount payable with GST	Mill Rs	61.739798	58.755580	52.190623	53.670372
	<u>Rate of Purchase from IIL Industries</u>					
	Fuel Cost	Rs/kWh	4.254000	4.287000	4.273000	4.274000
	Variable and other charges	Rs/kWh	1.534000	1.534000	1.534000	1.534000
	Differential due to increase in borrowing c	Rs/kWh	0.032368	-	-	-
	Rate excluding GST		5.820368	5.821000	5.807000	5.808000
	GST @ 16%		0.931259	0.931360	0.929120	0.929280
	Rate with GST		6.751627	6.752360	6.736120	6.737280
	<u>Intl. Steel Verified for Payment</u>					
	Units Purchased	Mill kWh	9.144433	8.701488	7.747876	7.966178
	Fuel Cost	Mill Rs	38.900418	37.303279	33.106674	34.047445
	Variable and other charges	Mill Rs	14.027560	13.348083	11.885242	12.220117
	Differential due to increase in borrowing c	Mill Rs	0.295986	-	-	-
	Amount excluding GST	Mill Rs	53.223964	50.651362	44.991916	46.267562
	GST @ 17%	Mill Rs	8.515834	8.104218	7.198707	7.402810
	Amount payable with GST	Mill Rs	61.739798	58.755580	52.190623	53.670372
	<u>Rate of Purchase from IIL Industries</u>					
	Fuel Cost	Rs/kWh	4.254000	4.287000	4.273000	4.274000
	Variable and other charges	Rs/kWh	1.534000	1.534000	1.534000	1.534000
	Differential due to increase in borrowing c	Rs/kWh	0.032368	-	-	-
	Rate excluding GST		5.820368	5.821000	5.807000	5.808000
	GST @ 16%		0.931259	0.931360	0.929120	0.929280
	Rate with GST		6.751627	6.752360	6.736120	6.737280

Breakup of Cost of Power Purchases

DESCRIPTION		Sep-11	Oct-11	Nov-11	Dec-11
8 IIL INDUSTRIES 4 MW- Original Invoice					
Units Purchased	Mill kWh	0.442253	0.671722	0.726653	0.631187
Fuel Cost	Mill Rs	1.781837	2.706368	2.927685	2.543052
Variable and other charges	Mill Rs	0.735024	1.116402	1.207697	1.049033
Differential due to increase in borrowing c	Mill Rs	-	-	-	-
Amount excluding GST	Mill Rs	2.516862	3.822770	4.135382	3.592085
GST @ 16%	Mill Rs	0.402698	0.611643	0.661661	0.574734
Amount payable with GST	Mill Rs	2.919560	4.434413	4.797043	4.166819
<u>Rate of Purchase from IIL Industries</u>					
Fuel Cost	Rs/kWh	4.029000	4.029000	4.029000	4.029000
Variable and other charges	Rs/kWh	1.662000	1.662000	1.662000	1.662000
Differential due to increase in borrowing c	Rs/kWh	-	-	-	-
Rate excluding GST		5.691000	5.691000	5.691000	5.691000
GST @ 16%		0.910560	0.910560	0.910560	0.910560
Rate with GST		6.601560	6.601560	6.601560	6.601560
<u>IIL INDUSTRIES 4 MW- Verified for Payment</u>					
Units Purchased	Mill kWh	0.442253	0.671722	0.726653	0.631187
Fuel Cost	Mill Rs	1.781837	2.706368	2.927685	2.543052
Variable and other charges	Mill Rs	0.735024	1.116402	1.207697	1.049033
Differential due to increase in borrowing c	Mill Rs	-	-	-	-
Amount excluding GST	Mill Rs	2.516862	3.822770	4.135382	3.592085
GST @ 16%	Mill Rs	0.402698	0.611643	0.661661	0.574734
Amount payable with GST	Mill Rs	2.919560	4.434413	4.797043	4.166819
<u>Rate of Purchase from IIL Industries</u>					
Fuel Cost	Rs/kWh	4.029000	4.029000	4.029000	4.029000
Variable and other charges	Rs/kWh	1.662000	1.662000	1.662000	1.662000
Differential due to increase in borrowing c	Rs/kWh	-	-	-	-
Rate excluding GST		5.691000	5.691000	5.691000	5.691000
GST @ 16%		0.910560	0.910560	0.910560	0.910560
Rate with GST		6.601560	6.601560	6.601560	6.601560
<u>IIL INDUSTRIES COMBINED - Verified for Payment</u>					
Units Purchased	Mill kWh	9.586686	9.373210	8.474529	8.597365
Fuel Cost	Mill Rs	40.682255	40.009647	36.034359	36.590497
Variable and other charges	Mill Rs	14.762585	14.464485	13.092939	13.269150
Differential due to increase in borrowing c	Mill Rs	0.295986	-	-	-
Amount excluding GST	Mill Rs	55.740826	54.474132	49.127298	49.859647
GST @ 17%	Mill Rs	9.475940	9.260602	8.351641	8.476140
Amount payable with GST	Mill Rs	65.216766	63.734734	57.478939	58.335787
		55.346191	54.474132	49.127298	
<u>RATE OF PURCHASE FROM IIL</u>					
Fuel Cost	Rs/kWh	4.243620	4.268511	4.252078	4.256013
Variable and other charges	Rs/kWh	1.539905	1.543173	1.544975	1.543397
Differential due to increase in borrowing c	Rs/kWh	0.030875	-	-	-
Rate excluding GST		5.814400	5.811684	5.797053	5.799410
GST @ 17%		0.988448	0.987986	0.985499	0.985900
Rate with GST		6.802848	6.799670	6.782553	6.785310