



KARACHI ELECTRIC SUPPLY COMPANY LTD.

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Ref. No.D RA&SP/NEPRA/071/10.75
Dated: 22nd April, 2013

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

Dear Sir

Subject: **ADJUSTMENT IN KESCL SCHEDULE OF TARIFF ON ACCDUNT OF FUEL PRICE AND POWER PURCHASE COST VARIATION FOR QUARTER ENDED MARCH 2013.**

This is with reference to the Authority's tariff determination of 23rd December 2009 of KESCL on account of fuel price and power purchase cost variation, the required adjustment in KESC's tariff for the quarter ended December 2012 is-as under:

1. **Required Adjustment in Schedule of Tariff for the Quarter ended March 2013**

1.1. As per the tariff adjustment mechanism applicable, the cost for the period Jan – Mar 2013 has increased by Ps. 215.837/kWh which needs to be adjusted in KESC's schedule of tariff. The table below gives the breakup of the required adjustment on units sold basis (taking into account the effect of T&O loss);

DESCRIPTION	March 2013 (Over Dec-12)	
	Mill Rs.	Ps/kWh
Fuel Price Variation	1,741.407	172.806
Power Purchase Price Variation	433.628	43.030
Total Variation in Tariff	2,175.035	215.837

1.2. **Unrecovered Cost**

The Authority in its determination dated 23rd December 2009 specified that the quarterly adjustment in schedule of tariff shall take care of;

- Monthly variation in the D&M cost and capacity charges for the power purchased from IPPs and other external sources; and
- Any un-recovered cost of fuel, due to non-adjustment of T&D losses in the monthly fuel price adjustment already allowed by Authority for recovery by KESCL through monthly bills of consumers.

Based on the approved mechanism and the details mentioned above, the unrecovered cost for the quarter Jan-Mar 2013 is as under:

Unrecovered Cost for the period January to March 2013	Amount (Mill Rs)
Variation in O&M cost of IPPs and other sources	15.215
Variation in Capacity charges of IPPs and other sources	29.804
Unrecovered cost due to non-adjustment of T&D losses in FCA	708.608
Adjustment of un-recovered cost of Previous Quarter	(110.664)
Other Adjustments in Power Purchase Costs	(239.727)
Total Unrecovered Cost for Jan – Mar 2013	403.238
Estimated Units to be sold @19% T&D loss in the next quarter (Gwh)	3132.130
Required Adjustment in KE5C's Tariff (Ps/kWh)	12.874

2. Request for Adjustment in Tariff

In view of the above, the overall increase in the KESC's tariff for the quarter ending March 2013 works out as follows:

Total Required Adjustment in KE5C's Tariff	Ps/kWh
Required Adjustment in KESC's tariff	215.837
Unrecovered Cost for Jan – Mar 2013	12.874
Sub Total	228.711
Adjustment of Unrecovered cost of previous quarter Oct- Dec 2012	(43.548)
Total Required adjustment in KESCL's Tariff	185.163

The requisite information / details on the captioned subject are enclosed for your reference. It is requested that the required adjustment in tariff may be allowed for the quarter ended 31st March 2013.

Regards


M. Rizwan Dalia

Director (Accounts)

Copy to:

Secretary, M/o Water and Power, Islamabad
Mr. Sajjad Muhammad Qureshi, Director Tariff, NEPRA, Islamabad

ADJUSTMENT IN TARIFF DUE TO VARIATION IN FUEL AND POWER PURCHASE COST INCLUDING O&M AND CAPACITY CHARGES	Dec-12	Jan-13	Feb-13	Mar-13	QTR
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UNITS SOLD	Mill kwh				1,007.723
FUEL PRICE VARIATION	Mill Rs				1,741.407
Cost of Power Purchase					
- Fuel Component	Mill Rs	5,269.619		6,263.069	
- O&M Cost	Mill Rs	868.751		864.432	
- Capacity Payment	Mill Rs	233.789		242.953	
- Total Cost of Power Purchased	Mill Rs	6,372.159		7,370.454	
Power Purchased	Mill kwh	576.653		627.753	
Average Rate of Power Purchase					
- Fuel Component	Rs/kWh	9.138		9.977	0.839
- O&M Cost	Rs/kWh	1.507		1.377	(0.130)
- Capacity Payment	Rs/kWh	0.405		0.387	(0.018)
- Total Cost of Power Purchased	Rs/kWh	11.050		11.741	0.691
POWER PURCHASED COST VARIATION					
- Fuel Component	Mill Rs				526.484
- O&M Cost	Mill Rs				(81.303)
- Capacity Payment	Mill Rs				(11.553)
- Total Cost of Power Purchased	Mill Rs				433.628
Total Cost Variation (Fuel + Purchase)	Mill Rs				2,175.035
QUARTERLY INCREASE/DECREASE IN RATE					
- Fuel Price Variation	Ps/kWh				172.806
- Power Purchase Cost variation	Ps/kWh				43.030
- Total Cost Variation	Ps/kWh				215.837

ADJUSTMENT IN TARIFF DUE TO UNRECOVERED COST

		Jan-13	Feb-13	Mar-13	QTR
a.	Variation in O&M Cost Power Purchase	17.267	79.251	(81.303)	15.215
b.	Variation in Capacity Cost Power Purchase	10.247	31.111	(11.553)	29.804
c. i Total Variation in Fuel & Power Purchase Cost					
	Fuel Price Variation	147.595	363.332	1,741.407	2,252.334
	Power Purchase(fuel) variation	959.822	(9.122)	526.484	1,477.184
		1,107.416	354.210	2,267.891	3,729.518
	Units Sent Out	979.711	928.846	1,244.102	3,152.659
	Increase/decrease in F5A Rate	113.035	38.134	182.291	118.298
	T&D Losses	19.0%	19.0%	19.0%	
	Units Sold as per NEPRA	793.566	752.365	1,007.723	2,553.654
ii Recovery of Cost under Monthly F5A					
	Fuel Price Variation	119.552	294.299	1,410.540	1,824.391
	Power Purchase(fuel) variation	777.456	(7.389)	426.452	1,196.519
		897.007	286.910	1,836.992	3,020.910
iii Unrecovered Cost due to non adjustment of T&D losses					
	Fuel Price Variation	28.043	69.033	330.867	427.944
	Power Purchase(fuel) variation	182.366	(1.733)	100.032	280.665
	Total	210.409	67.300	430.899	708.608
d. Adjustment of un-recovered cost of Prv Quarter					
	Unrecovered cost of previous quarter				1,001.393
	Allowed adjustment in KESCL Tariff				43.548
	Actual Units sold as per NEPRA				2,553.654
	Actual Recovery of Un-recovered cost				1,112.056
	Shortfall/(Surplus) adjustment of unrecovered cost				(110.664)

SUMMARY OF UNRECOVERED COST

a.	Variation in O&M Cost Power Purchase	Mill Rs	15.215
b.	Variation in Capacity Cost Power Purchase	Mill Rs	29.804
c.	Unrecovered Cost due to non adjustment of T&D losses	Mill Rs	708.608
d.	Adjustment of un-recovered cost of Prev. Quarter	Mill Rs	(110.664)
e. Others			
i)	Adjustment of Fixed Cost of KANUPP	Mill Rs	44.033
ii)	Adjustment of Fixed Cost of PASMIC	Mill Rs	1.756
iii)	Adjustment of WPPF payment to IPPs		106.360
iv)	Adjst. Revised Invoices of NTDC 2011-12	Mill Rs	(391.876)
	Total Adjustment in Quarterly Tariff	Mill Rs	403.238
	Estimated Units to be sold in next quarter	Mill kWh	3,132.130

Required adjustment in Tariff

a	Quarterly Revision of SDT for the Quarter 'A'	Ps/kWh	215.837
b	Unrecovered Cost for current quarter	Ps/kWh	12.874
	Sub - Total	Ps/kWh	228.711
c	Reversal of tariff adjustment of prev. quarter	Ps/kWh	(43.548)
	Total Required adjustment in KESCL's Tariff	Ps/kWh	185.163

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

DESCRIPTION		Dec-12	Jan-13	Feb-13	Mar-13
1 REQUIRED ADJUSTMENT IN TARIFF (FSA) ON UNITS SOLD BASIS					
a. Monthly Variation in					
i Fuel Price	Mill Rs.	(291.075)	147.595	363.332	1,741.407
ii Power Purchase Price	Mill Rs.	471.999	987.336	101.240	433.628
iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs.	180.925	1,134.93	464.57	2,175.04
b. Units Sold at 19% T&D losses	Mill kWh	829.35	793.57	752.37	1,007.72
2 a. Monthly Variation in					
i Fuel Price (1ai/1b)	Ps/kWh	(35.097)	18.599	48.292	172.806
ii Power Purchase Price (1aii/1b)	Ps/kWh	56.912	124.418	13.456	43.030
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	21.815	143.017	61.748	215.837
MONTHLY SHORTFALL/(SURPLUS) IN REVENUE (1 - 2)					
c. Increase/ Decrease in Revenue due to FSA	Mill Rs.	180.92	1,134.93	464.57	2,175.04
1 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS					
a. Monthly Variation in					
i Fuel Price	Mill Rs.	(291.075)	147.595	363.332	1,741.407
ii Power Purchase Price - Fuel component	Mill Rs.	327.785	959.822	(9.122)	526.484
iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs.	36.710	1,107.416	354.210	2,267.891
b. Units Sent Out	Mill kWh	1,023.885	979.711	928.846	1,244.102
2 a. Monthly Variation in FSA - due to					
i Fuel Price	Ps/kWh	(28.428)	15.065	39.117	139.973
ii Power Purchase Price - Fuel component	Ps/kWh	32.014	97.970	(0.982)	42.318
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	3.585	113.035	38.134	182.291

Work Sheet- Fuel Price Variation

DESCRIPTION		Dec-12	Jan-13	Feb-13	Mar-13	
1 UNITS SENT OUT - KESC						
1a UNITS SENT OUT ON GAS						
i	Bin Qasim	Mill kWh	80.572	92.075	43.493	31.897
ii	Bin Qasim II - CCPP	Mill kWh	306.414	247.688	259.807	331.560
iii	Korangi Thermal	Mill kWh	(0.144)	(0.144)	(0.143)	(0.171)
iv	Korangi Gas 2	Mill kWh	2.617	4.494	7.533	15.193
v	Site Gas 2	Mill kWh	0.454	0.163	0.338	(0.128)
vi	Korangi combined	Mill kWh	21.852	7.553	39.672	44.510
	Total (i to viii)	Mill kWh	411.765	351.829	350.699	422.860
1b UNITS SENT OUT ON F. OIL						
i	Bin Qasim	Mill kWh	35.467	53.899	55.626	193.489
	Total (i to viii)	Mill kWh	35.467	53.899	55.626	193.489
1c TOTAL UNITS SENT OUT (1 + 2)						
i	Bin Qasim	Mill kWh	116.039	145.974	99.119	225.386
ii	Bin Qasim II - CCPP	Mill kWh	306.414	247.688	259.807	331.560
iii	Korangi Thermal	Mill kWh	(0.144)	(0.144)	(0.143)	(0.171)
iv	Korangi Gas 2	Mill kWh	2.617	4.494	7.533	15.193
v	Site Gas 2	Mill kWh	0.454	0.163	0.338	(0.128)
vi	Korangi combined	Mill kWh	21.852	7.553	39.672	44.510
	Total (i to viii)	Mill kWh	447.232	405.729	406.325	616.350
2 HEAT RATE AT BUS BAR						
2a Heat Rate of GAS - of Item 1						
i	Bin Qasim	8tu/kWh	10,650	10,650	10,650	10,650
ii	Bin Qasim II - CCPP	8tu/kWh	8,605	8,605	8,605	8,605
iii	Korangi Thermal	8tu/kWh	13,738	13,738	13,738	13,738
iv	Korangi Gas 2	8tu/kWh	9,500	9,500	9,500	9,500
v	Site Gas 2	8tu/kWh	9,500	9,500	9,500	9,500
vi	Korangi combined	8tu/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)	R\$/MMBTu	487.00	515.23	515.23	515.23
b.	Fuel Price -F.D (Rs/Kg)	R\$/Kg	62,991	63,729	66,265	67,102
4 COST OF FUEL						
4a COST OF GAS						
i	Bin Qasim	Mill Rs	417.890	505.234	238.654	175.023
ii	Bin Qasim II - CCPP	Mill Rs	1,284.069	1,098.138	1,151.868	1,469.989
iv	Korangi Gas 2	Mill Rs	12.109	21.998	36.870	74.364
v	Site Gas 2	Mill Rs	2.099	0.796	1.652	(0.625)
vi	Korangi combined	Mill Rs	96.947	35.452	186.210	208.917
	Total (i to viii)	Mill Rs	1,813.114	1,661.618	1,615.254	1,927.669
4b COST OF FURNACE OIL						
i	Bin Qasim	Mill Rs	589.800	906.823	973.123	3,427.629
	Total (i to viii)	Mill Rs	589.800	906.823	973.123	3,427.629

Work Sheet- Fuel Price Variation

DESCRIPTION		Dec-12	Jan-13	Feb-13	Mar-13	
4c TOTAL COST OF FUEL						
i	Bin Qasim	Mill Rs	1,007.690	1,412.057	1,212.777	3,602.652
ii	Bin Qasim II - CCPP	Mill Rs	1,284.069	1,098.138	1,151.868	1,469.989
iv	Korangi Gas 2	Mill Rs	12.109	21.998	36.870	74.364
v	Site Gas 2	Mill Rs	2.099	0.796	1.652	(0.625)
vi	Korangi combined	Mill Rs	96.947	35.452	186.210	208.917
	Total	Mill Rs	2,402.915	2,568.442	2,588.377	5,355.298
5 COST OF FUEL PER KWH						
a	Bin Qasim	Rs/kWh	8.684	9.673	12.225	15.984
b	Bin Qasim II - CCPP	Rs/kWh	4.191	4.434	4.434	4.434
d	Korangi Gas 2	Rs/kWh	4.627	4.895	4.895	4.895
e	Site Gas 2	Rs/kWh	4.627	4.895	4.895	4.895
f	Korangi combined	Rs/kWh	4.437	4.694	4.694	4.694
6 INCREASE/DECREASE IN COST OF FUEL PER KWH						
a	Bin Qasim	Rs/kWh	(2.365)	0.989	3.541	7.300
b	Bin Qasim II - CCPP	Rs/kWh	-	-	-	0.243
d	Korangi Gas 2	Rs/kWh	(0.694)	0.268	0.268	0.268
e	Site Gas 2	Rs/kWh	(0.694)	0.268	0.268	0.268
f	Korangi combined	Rs/kWh	(0.665)	0.257	0.257	0.257
7 INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH						
a	Bin Qasim	Mill Rs	(274.413)	144.403	352.019	1,645.378
b	Bin Qasim II - CCPP	Mill Rs	-	-	-	80.542
d	Korangi Gas 2	Mill Rs	(1.815)	1.205	2.020	4.074
e	Site Gas 2	Mill Rs	(0.315)	0.044	0.091	(0.034)
f	Korangi combined	Mill Rs	(14.532)	1.942	10.203	11.447
	Total (a to g)	Mill Rs	(291.075)	147.595	363.332	1,742.407
8 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS						
a	Fuel price variation (item 7-h)	Mill Rs	(292.075)	147.595	363.332	1,741.407
b	Units Sent Out - KESC	Mill kWh	447.232	405.729	406.325	616.350
c	Power Purchase	Mill kWh	576.653	573.982	522.521	627.753
d	Total Units Sent Out (b + c)	Mill kWh	1,023.885	979.711	928.846	1,244.102
e	Increase / Decrease in Tariff (8a / 8d x 100) To be passed on to the consumers - FSA	Ps/kWh	(28.428)	15.065	39.117	139.973
9 INCREASE / DECREASE IN REVENUE						
a	Units Sold	Mill kWh	829.347	793.566	752.365	1,007.723
b	Increase / Decrease in Tariff	Ps/kWh	(28.428)	15.065	39.117	139.973
c	Increase / Decrease in Revenue (9a / 9b x 100)	Mill Rs	(235.771)	119.552	294.299	1,410.540
d	Unrecovered Cost due to 21% T&D loss		(55.304)	28.043	69.033	330.867
10 INCREASE / DECREASE IN TARIFF TO BE ADJUSTED ON QUARTERLY BASIS						
a	Fuel price variation - item 8a	Mill Rs	(291.075)	147.595	363.332	1,741.407
b	Units Sent Out - KESC	Mill kWh	447.232	405.729	406.325	616.350
c	Power Purchase	Mill kWh	576.653	573.982	522.521	627.753
d	Total Units Sent Out	Mill kWh	1,023.885	979.711	928.846	1,244.102
e	Trans & Dist Losses		19%	19%	19%	19%
f	Units Sold (10d - 10e)	Mill kWh	829.347	793.566	752.365	1,007.723

DESCRIPTION		Dec-12	Jan-13	Feb-13	Mar-13
Units Generated					
	Mill kwh				
Bin Qasim		122.375620	153.853070	103.278750	237.396050
Bin Qasim II - 560 MW		326.371785	264.720206	277.862719	353.924029
Korangi Thermal					
Korangi Town Gas Turb II		2.756124	4.619096		
Site Gas Turbine II		0.856142	0.570004	7.885919	15.758699
Korangi CCPP		23.925600	8.323500	0.878896	0.264140
Total KESC		476.285271	432.885876	432.721384	49.046600
				656.389518	
Units Sent out					
	Mill kwh				
Bin Qasim		107.110080	136.735830	90.533520	214.788420
Bin Qasim II - 560 MW		306.414000	247.688000	259.807000	331.560000
Korangi Thermal		(0.143550)	(0.143550)	(0.142560)	(0.171270)
Korangi Town Gas Turb II		2.617270	4.494297	7.532666	15.192862
Site Gas Turbine II		0.453700	0.162600	0.337500	(0.127600)
Korangi CCPP		21.851832	7.553075	39.671918	44.509690
Total KESC		438.303332	396.490252	397.740044	605.752102
Auxiliary Consumption					
	Mill kwh				
Bin Qasim		15.265540	17.117240	12.745230	22.607630
Bin Qasim II - 560 MW		19.957785	17.032206	18.055719	22.364029
Korangi Thermal		0.143550	0.143550	0.142560	0.171270
Korangi Town Gas Turb II		0.138854	0.124799	0.353253	0.565837
Site Gas Turbine II		0.402442	0.407404	0.541396	0.391740
Korangi CCPP		2.073768	0.770425	3.143182	4.536910
Total KESC		37.981939	35.595624	34.981340	50.637416
Auxiliary Consumption					
Bin Qasim		12.5%	11.1%	12.3%	9.5%
Bin Qasim II - 560 MW		6.1%	6.4%	6.5%	6.3%
Korangi Thermal		0.0%	0.0%	0.0%	0.0%
Korangi Town Gas Turb II		5.0%	2.7%	4.5%	3.6%
Site Gas Turbine II		47.0%	71.5%	61.6%	148.3%
Korangi CCPP		8.7%	9.3%	7.3%	9.3%
Total KESC		8.0%	8.2%	8.1%	7.7%
Units Sent out					
	Mill kwh				
Bin Qasim		116.038617	145.974216	99.118856	225.386075
Bin Qasim II - 560 MW		306.414000	247.688000	259.807000	331.560000
Korangi Thermal		(0.143550)	(0.143550)	(0.142560)	(0.171270)
Korangi Town Gas Turb I					
Korangi Town Gas Turb II		2.617270	4.494297	7.532666	15.192862
Site Gas Turbine I					
Site Gas Turbine II		0.453700	0.162600	0.337500	(0.127600)
Korangi CCPP		21.851832	7.553075	39.671918	44.509690
Total KESC		447.231869	405.728638	406.325380	616.349757
Check					
Auxiliary Consumption					
	Mill kwh				
Bin Qasim		6.337003	7.878854	4.159894	12.009975
Bin Qasim II - 560 MW		19.957785	17.032206	18.055719	22.364029
Korangi Thermal		0.143550	0.143550	0.142560	0.171270
Korangi Town Gas Turb II		0.138854	0.124799	0.353253	0.565837
Site Gas Turbine II		0.402442	0.407404	0.541396	0.391740
Korangi CCPP		2.073768	0.770425	3.143182	4.536910
Total KESC		29.053402	26.357238	26.396004	40.039761
Auxiliary Consumption at 6.1%					
Bin Qasim		5.2%	5.1%	4.0%	5.1%
Bin Qasim II - 560 MW		6.1%	6.4%	6.5%	6.3%
Korangi Thermal		0.0%	0.0%	0.0%	0.0%
Korangi Town Gas Turb II		5.0%	2.7%	4.5%	3.6%
Site Gas Turbine II		47.0%	71.5%	61.6%	148.3%
Korangi CCPP		8.7%	9.3%	7.3%	9.3%
Total KESC		6.1%	6.1%	6.1%	6.1%
Fuel Consumption at BQPS					
Gas Consumption	000 CM	27,962,964	31,107,661	14,423,124	10,199,003
	MMCF	992,515	1,104,132	511,933	362,002
	MMCF0	32.02	35.62	18.28	11.68
	8TU/MCF	931,670	945,250	938,280	930,360
	Million BTU	924,696	1,043,681	480,337	336,793
		69.4%	63.4%	43.6%	13.8%
Furnace Oil consumption	M. Ton	10,113.73	14,920.83	15,374.57	52,217.56
	8TU/M.Ton	40,351,500	40,351,500	40,351,500	40,351,500
	Million BTU	408,104	602,078	620,387	2,107,057

DESCRIPTION		Dec-12	Jan-13	Feb-13	Mar-13
		30.6%	36.6%	56.4%	86.2%
Total fuel consumption	Million BTU	1,332,800	1,645,759	1,100,723	2,443,849
Actual Unit-wise Generation on Gas		84.97197	97.044669	45.318226	33.596312
		69.44%	63.08%	43.88%	14.15%
Actual Unit-wise Generation on Furnace Oil		37.40365	56.808401	57.960524	203.799738
		30.56%	36.92%	56.12%	85.85%
Total actual generation at Bin Qasim		122.37562	153.853070	103.278750	237.396050
Sent out - BQPS					
On gas	Mill kWh	80.571849	92.074987	43.492884	31.896659
	Rs/kWh	5.589	5.840		
On Furnace Oil	Mill kWh	35.466769	53.899228	55.625972	193.489416
	Rs/kWh	17.963	17.642		
	Mill kWh	116.038617	145.974216	99.118856	225.386075
	Rs/kWh				
Generation on Gas					
Bin Qasim	Mill kWh	80.571849	92.074987	43.492884	31.896659
Bin Qasim II - 560 MW	Mill kWh	306.414000	247.688000	259.807000	331.560000
Korangi Thermal	Mill kWh	(0.143550)	(0.143550)	(0.142560)	(0.171270)
Korangi Town Gas Turb II	Mill kWh	2.617270	4.494297	7.532666	15.192862
Site Gas Turbine II	Mill kWh	0.453700	0.162600	0.337500	(0.127600)
Korangi CCPP	Mill kWh	21.851832	7.553075	39.671918	44.509690
Total KESC	Mill kWh	411.765101	351.829409	350.699408	422.860341
Generation on F.Oil - BQPS		35.466769	53.899228	55.625972	193.489416
Total Generation at Bus Bar		447.231869	405.728638	406.325380	616.349757
		7.9%	13.3%	13.7%	31.4%
		116.038617	145.974216	99.118856	225.386075
Price of Gas					
Gas Consumption					
i Bin Qasim	Mill Btu	924,696	1,043,681	480,337	336,793
ii Bin Qasim II - 560 MW	Mill Btu	2,590,475	2,120,395	2,272,163	2,839,736
iii Korangi Thermal	Mill Btu				
v Korangi Town Gas Turb II	Mill Btu	25,223	42,155	74,136	148,746
vii Site Gas Turbine II	Mill Btu	8,751	6,049	8,625	2,943
viii Korangi CCPP	Mill Btu	188,885	67,537	344,047	371,283
Total KESC	Mill Btu	3,738,030	3,279,817	3,179,308	3,699,500
Cost of Gas Consumed - of item 13a					
i Bin Qasim	Mill Rs.	450.342	537.752	247.499	173.540
ii Bin Qasim II - 560 MW	Mill Rs.	1,261.574	1,092.505	1,170.699	1,463.127
iii Korangi Thermal	Mill Rs.	0.019	0.019	0.019	0.019
v Korangi Town Gas Turb II	Mill Rs.	12.287	21.723	38.200	76.646
vii Site Gas Turbine II	Mill Rs.	4.267	3.122	4.449	1.522
viii Korangi CCPP	Mill Rs.	91.992	34.802	177.268	191.301
Total KESC	Mill Rs.	1,820.480	1,689.924	1,638.136	1,906.154
Gas Price (item 13b / item 13a)					
i Bin Qasim	Rs/Mill Btu	487.02	515.25	515.26	515.27
ii Bin Qasim II - 560 MW	Rs/Mill Btu	487.00	515.24	515.24	515.23
v Korangi Town Gas Turb II	Rs/Mill Btu	487.12	515.30	515.27	515.28
vii Site Gas Turbine II	Rs/Mill Btu	487.63	516.14	515.87	517.10
viii Korangi CCPP	Rs/Mill Btu	487.03	515.31	515.24	515.24
Total KESC	Rs/Mill Btu	487.02	515.25	515.25	515.25
Price of Furnace Oil					
Quantity	M. Ton	10,113.73	14,920.83	15,374.57	52,217.56
Cost of Furnace Oil	Mill Rs.	637.075	950.888	1,018.800	3,503.880
Furnace oil Price	Rs/M. Ton	62,991.15	63,729	66,265	67,101.56

Work Sheet- Power Purchase Cost Variation

DESCRIPTION	Dec-12	Jan-13	Feb-13	Mar-13
1 POWER PURCHASES				
a KANUPP Mill kWh	55.001	25.653	25.532	54.413
b PASMIC Mill kWh	0.434	0.215	0.391	0.092
c TAPAL Mill kWh	36.413	54.378	56.951	74.628
d GUL AHMED Mill kWh	21.440	19.019	15.709	18.691
e NTDC/WAPDA Mill kWh	451.450	463.153	413.255	469.897
f ANDUD POWER Mill kWh	5.409	5.541	4.862	4.267
h INT IND (IIL) Mill kWh	6.506	6.023	5.821	5.765
m TOTAL Mill kWh	576.653	573.982	522.521	627.753
	78.3%	80.7%		
2 COST OF POWER PURCHASE - FUEL COST				
a KANUPP Mill Rs	308.392	170.866	170.558	485.967
b PASMIC Mill Rs	2.435	1.429	2.613	0.819
c TAPAL Mill Rs	513.366	772.752	833.842	1,111.337
d GUL AHMED Mill Rs	312.980	280.475	239.342	294.115
e NTDC/WAPDA Mill Rs	4,043.063	4,887.900	3,435.160	4,293.197
f ANDUD POWER Mill Rs	59.322	62.160	55.833	49.426
h INT IND (IIL) Mill Rs	30.061	29.455	28.474	28.208
m TOTAL Mill Rs	5,269.619	6,205.038	4,765.821	6,263.069
3 COST OF POWER PURCHASE- Fuel Cost/kWh				
a KANUPP Rs/kWh	5.607	6.661	6.680	8.931
b PASMIC Rs/kWh	5.607	6.661	6.680	8.931
c TAPAL Rs/kWh	14.098	14.211	14.641	14.892
d GUL AHMED Rs/kWh	14.598	14.747	15.236	15.736
IPPs (Tapal + Gul) Rs/kWh	14.283	14.350	14.770	
e NTDC/WAPDA Rs/kWh	8.956	10.554	8.312	9.136
f ANDUD POWER Rs/kWh	10.968	11.217	11.483	11.582
h INT IND (IIL) Rs/kWh	4.621	4.890	4.892	4.893
m AVERAGE Rs/kWh	9.138	10.811	9.121	9.977
4 INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS				
a Avere Monthly Fuel cost of Power Rs/kWh	9.138	10.811	9.121	9.977
b Reference Rate - Previous Month Rs/kWh	8.570	9.138	9.138	9.138
c Increase / Decrease in Average Rate of Rs/kWh	0.568	1.672	(0.017)	0.839
d Total Power Purchase (Item 1m) Mill kWh	576.653	573.982	522.521	627.753
e Increase / Decrease in Fuel Cost of Pow Mill Rs	327.785	959.822	(9.122)	526.484
5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS				
a Fuel price variation in cost of power purchase (iter	327.785	959.822	(9.122)	526.484
b Units Sent Out - KE5C Mill kWh	447.232	405.729	406.325	616.350
c Power Purchase Mill kWh	576.653	573.982	522.521	627.753
d Total Units Sent Out (b + c) Mill kWh	1,023.885	979.711	928.846	1,244.102
e Increase / Decrease in Tariff (5a / 5d x 100) To be passed on to the consumers - F5 Ps/kWh	32.014	97.970	(0.982)	42.318
6 INCREASE / DECREASE IN REVENUE				
a Units Sold Mill kWh	829.347	793.566	752.365	1,007.723
b Increase / Decrease in Tariff (item 5e) Ps/kWh	32.014	97.970	(0.982)	42.318
c Increase / Decrease in Revenue (6a / 6 Mill Rs	265.505	777.456	(7.389)	426.452
d Accumulated increase / decrease in re Mill Rs	141.535	777.456	770.067	1,196.519
e Unrecovered Cost due to 21% T&D los: Mill Rs				

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Dec-12	Jan-13	Feb-13	Mar-13	
7 O&M PAYMENT						
a	KANUPP	Mill Rs	30.800	14.366	14.298	37.356
b	PASMIC	Mill Rs	0.664	0.328	0.598	0.179
c	TAPAL	Mill Rs	32.018	50.288	52.668	69.016
d	GUL AHMED	Mill Rs	11.005	10.268	8.481	10.091
e	NTDC/WAPDA	Mill Rs	775.370	788.303	773.425	731.889
f	ANOUD POWER	Mill Rs	9.180	9.405	8.253	7.243
h	INT IND (IIL)	Mill Rs	9.714	9.036	8.726	8.658
m	TOTAL	Mill Rs	868.751	881.995	866.450	864.432
8 O&M PAYMENT (Rs/kWh)						
a	KANUPP	Rs/kWh	0.560	0.560	0.560	0.687
b	PASMIC	Rs/kWh	1.529	1.529	1.529	1.946
c	TAPAL	Rs/kWh	0.879	0.925	0.925	0.925
d	GUL AHMED	Rs/kWh	0.513	0.540	0.540	0.540
e	NTDC/WAPDA	Rs/kWh	1.718	1.702	1.872	1.558
f	ANOUD POWER	Rs/kWh	1.697	1.697	1.697	1.697
h	INT IND (IIL)	Rs/kWh	1.493	1.500	1.499	1.502
m	TOTAL	Rs/kWh	1.507	1.537	1.658	1.377
n	Variation over Base Rate	Rs/kWh	0.171	0.030	0.152	(0.130)
o	Variation over Base Rate (8a*1m)	Mill Rs	98.851	17.267	79.251	(81.303)
9 CAPACITY PAYMENT						
c	TAPAL	Mill Rs	122.539	126.993	126.993	126.993
d	GUL AHMED	Mill Rs	111.250	115.960	115.960	115.960
m	TOTAL	Mill Rs	233.789	242.953	242.953	242.953
10 CAPACITY PAYMENT (Rs/ kWh)						
c	TAPAL	Mill Rs	3.365	2.335	2.230	1.702
d	GUL AHMED	Mill Rs	5.189	6.097	7.382	6.204
m	TOTAL	Mill Rs	0.405	0.423	0.465	0.387
n	Variation over Base Rate	Rs/kWh	0.079	0.018	0.060	(0.018)
o	Variation over Base Rate (10n*1m)	Mill Rs	45.364	10.247	31.111	(11.553)
11 TOTAL O&M & CAPACITY PAYMENT						
a	KANUPP	Mill Rs	30.800	14.366	14.298	37.356
b	PASMIC	Mill Rs	0.664	0.328	0.598	0.179
c	TAPAL	Mill Rs	154.557	177.282	179.661	196.009
d	GUL AHMED	Mill Rs	122.255	126.228	124.441	126.051
e	NTDC/WAPDA	Mill Rs	775.370	788.303	773.425	731.889
f	ANOUD POWER	Mill Rs	9.180	9.405	8.253	7.243
h	INT IND (IIL)	Mill Rs	9.714	9.036	8.726	8.658
m	TOTAL	Mill Rs	1,102.540	1,124.948	1,109.403	1,107.385
12 TOTAL COST WITH O&M AND CAPACITY PAYMENT						
a	KANUPP	Mill Rs	339.193	185.232	184.856	523.323
b	PASMIC	Mill Rs	3.099	1.758	3.211	0.998
c	TAPAL	Mill Rs	667.922	950.034	1,013.503	1,307.347
d	GUL AHMED	Mill Rs	435.236	406.703	363.783	420.166
e	NTDC/WAPDA	Mill Rs	4,818.433	5,676.202	4,208.586	5,025.085
f	ANOUD POWER	Mill Rs	68.502	71.565	64.086	56.669
h	INT IND (IIL)	Mill Rs	39.775	38.492	37.201	36.866
m	TOTAL	Mill Rs	6,372.159	7,329.986	5,875.224	7,370.454

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Dec-12	Jan-13	Feb-13	Mar-13
13 COST OF POWER PURCHASE- TOTAL Cost/kWh					
a	KANUPP Rs/kWh	6.167	7.221	7.240	9.618
b	PASMIC Rs/kWh	7.136	8.190	8.209	10.878
c	TAPAL Rs/kWh	18.343	17.471	17.796	17.518
d	GUL AHMED Rs/kWh	20.300	21.384	23.158	22.479
e	NTDC/WAPOA Rs/kWh	10.673	12.256	10.184	10.694
f	ANOU G POWER Rs/kWh	12.665	12.915	13.180	13.280
h	INT IND (IIL) Rs/kWh	6.114	6.391	6.391	6.395
m	AVERAGE Rs/kWh	11.050	12.770	11.244	11.741
14 INCREASE / DECREASE IN POWER PURCHASE COST - TOTAL					
a	Average Monthly cost of Power Purcl Rs/kWh	11.050	12.770	11.244	11.741
b	Reference Rate - Previous Month Rs/kWh	10.232	11.050	11.050	11.050
c	Increase / Decrease in Average Rate of Rs/kWh	0.819	1.720	0.194	0.691
d	Total Power Purchase (Item 1m) Mill kWh	576.653	573.982	522.521	627.753
e	Increase / Decrease in Total Cost of Pov Mill Rs	471.999	987.336	101.240	433.628
f	Adjustment in cost of KANUPP				
g	Unrecovered cost Previous Quarter				
h	Total (e+f+g)	471.999	987.336	101.240	433.628
15 INCREASE / DECREASE IN TARIFF					
TO BE ADJUSTED ON QUARTERLY BASIS					
a	Total price variation in cost of power pu Mill Rs	471.999	987.336	101.240	433.628
Units Sent Out					
b	KESC Mill kWh	447.232	405.729	406.325	616.350
c	Power Purchase Mill kWh	576.653	573.982	522.521	627.753
d	Total Units Sent Out (b+c) Mill kWh	1,023.885	979.711	928.846	1,244.102
e	Trans & Dist Losses	19.0%	19.0%	19.0%	19.0%
f	Units Sold (15d-15e) Mill kWh	829.347	793.566	752.365	1,007.723
g	Increase / Decrease in Tariff				
h	Power Purchase (15a/15f) Ps/kWh	56.912	124.418	13.456	43.030
16 INCREASE / DECREASE IN REVENUE					
a	Units Sold (Item 15f) Mill kWh	829.347	793.566	752.365	1,007.723
b	Increase / Decrease in Tariff (Item 15h) Ps/kWh	56.912	124.418	13.456	43.030
c	Increase / Decrease in Revenue (a*b) Mill Rs	471.999	987.336	101.240	433.628

Breakup of Cost of Power Purchases

DESCRIPTION		Jun-12	Jul-12	Dec-12	Jan-13	Feb-13	Mar-13
1 KANUPP							
Units Purchased	Mill kwh	33.881584	59.403168	55.000704	25.653488	25.531968	54.412514
Fuel Cost	Mill Rs	272.568914	560.433254	308.392225	170.866187	170.557961	485.967831
Variable O & M	Mill Rs	17.528784	31.265774	38.800394	14.365908	14.297902	37.356367
Total Cost	Mill Rs	298.097698	593.699828	339.192519	185.232015	184.855863	523.323398
RATE OF PURCHASE FROM KANUPP							
Fuel Cost	Rs/kWh	8.863818	9.434488	5.687858	6.660562	6.688173	8.931163
Variable O & M	Rs/kWh	0.518580	0.568880	0.560000	0.560000	0.560000	0.560000
Total Cost	Rs/kWh	8.582390	9.994400	6.167058	7.228562	7.248173	9.617703
2 PASMIC							
Units Purchased	Mill kwh	1.848728	8.333392	0.434278	8.214621	8.391085	8.091729
Fuel Cost	Mill Rs	8.456663	3.145354	2.435822	1.429496	2.612515	0.819247
Variable O & M	Mill Rs	1.347991	0.589856	0.664141	8.328120	0.598086	0.178550
Total Cost	Mill Rs	9.804654	3.655218	3.899163	1.757716	3.210682	8.997797
RATE OF PURCHASE FROM PASMIC							
Fuel Cost	Rs/kWh	8.063818	9.434400	5.607858	6.660562	6.688173	6.4358128
Variable O & M	Rs/kWh	1.285378	1.529380	1.529300	1.529300	1.529300	0.831163
Total Cost	Rs/kWh	9.349180	10.963780	7.136358	8.109862	8.209473	10.877662
3 Tapal Energy Ltd.							
Units Purchased	Mill kwh	29.619500	28.822100	36.412900	54.377600	56.951000	74.628100
Fuel cost	Mill Rs	446.582128	386.520606	513.365898	772.752138	833.841556	1,111.337426
Variable O & M	Mill Rs	24.782663	24.639833	32.817863	50.288404	52.668205	69.016067
Total Energy Purchase Price	Mill Rs	471.204791	411.160439	545.383761	823.848542	886.509841	1,180.353493
Capacity Purchase Price	Mill Rs	126.943249	121.287041	122.538664	126.993236	126.993136	126.993136
Total Cost	Mill Rs	588.148848	532.447488	667.922425	958.833678	2,823.502977	1,307.346629
RATE OF PURCHASE FROM TAPAL							
Fuel cost	Rs/kWh	15.875	23.793	24.098	14.211	24.641	14.892
Variable O & M	Rs/kWh	0.834	0.879	8.879	8.925	0.925	8.925
Total Energy Purchase Price	Rs/kWh	15.909	14.673	24.978	15.136	25.566	15.816
Capacity Purchase Price	Rs/kWh	3.948	4.328	3.365	2.335	2.230	1.702
Total Cost	Rs/kWh	19.857	19.002	18.341	17.471	17.796	17.518
4 Gul Ahmed Energy Ltd.							
Units Purchased	Mill kwh	71.604486	68.529305	11.448424	19.019130	15.708672	18.691125
Fuel cost	Mill Rs	1,109.386631	976.693697	312.988278	280.475173	239.341773	294.115259
Variable O & M	Mill Rs	34.903176	35.170959	11.005370	20.268428	8.481112	10.091330
Total Energy Purchase Price	Mill Rs	1,144.289807	1,011.864656	323.993648	290.743601	247.822885	304.286597
Capacity Purchase Price	Mill Rs	81.313238	87.204645	112.249998	115.959669	115.959669	115.959669
Total Cost	Mill Rs	8,227.683037	2,099.068301	435.235646	486.703278	363.782554	428.266266
RATE OF PURCHASE FROM GUL AHMED							
Fuel cost	Rs/kWh	983.562795	14.254	14.598	14.747	15.236	15.736
Variable O & M	Rs/kWh	8.487	8.513	0.513	8.548	0.540	8.548
Total Energy Purchase Price	Rs/kWh	15.963	14.768	15.111	15.287	15.776	16.275
Capacity Purchase Price	Rs/kWh	1.162	1.273	5.189	6.897	7.382	6.204
Total Cost	Rs/kWh	17.125	16.848	28.380	21.384	23.158	22.479
5 NTDC/WAPDA							
Units Imported	Mill kwh	443.728008	460.430900	452.450888	463.253808	423.255000	469.897000
Maximum Demand	MW	710	788	750	740	730	768
Use of system charges	Mill Rs	60.996100	63.573488	64.432500	63.573400	62.724300	65.291608
Energy Transfer Charges							
- Capacity Transfer charges	Mill Rs	683.896739	682.230206	720.937148	724.729449	720.711127	666.596923
- Energy Transfer Charges I	Mill Rs	3,818.589172	3,274.392225	3,941.264553	4,748.671583	3,280.228233	4,172.444773
- Energy Transfer Charges II	Mill Rs	76.232427	86.222884	300.790402	139.227960	155.048052	120.751782
Adjustment for Finance Cost to IPPs		(32,350,091)	(3,612,417)				
Total Energy Transfer Charges	Mill Rs	3,769.928338	4,839.231798	4,754.880183	5,622.628992	4,145.871412	4,959.793478
Total Cost without GST	Mill Rs	3,830.914438	4,202.885198	4,818.432603	5,676.282392	4,208.585712	5,825.085078
GST @ 26%	Mill Rs	481.694268	523.902596	630.762328	759.787453	524.819237	667.591164
Total Cost With GST	Mill Rs	4,322.608706	4,626.707794	5,849.194931	6,435.989845	8,733.404949	5,692.676242
RATE OF PURCHASE FROM NTDC							
Use of system charges	Rs/kWh	8.137	8.138	8.143	8.137	8.152	8.139
Energy Transfer Charges							
- Capacity Transfer charges	Rs/kWh	1.539	1.482	1.575	1.565	1.728	1.419
- Energy Transfer Charges I	Rs/kWh	6.7049	7.1126	8.7325	10.2529	7.9373	8.8795
- Energy Transfer Charges II	Rs/kWh	0.1718	8.1873	0.2233	0.3806	8.3752	8.2578
Adjustment for Finance Cost	Rs/kWh	(8.0278)	(0.8078)				
Total Energy Transfer Charges	Rs/kWh	8.496	8.773	10.531	12.118	10.032	18.555
Total Cost without GST	Rs/kWh	8.634	8.911	18.673	12.256	10.284	18.694
GST @ 16%	Rs/kWh	1.886	1.138	1.397	1.640	1.270	1.421
Total Cost With GST	Rs/kWh	9.719	10.049	22.078	13.896	11.454	12.115

Breakup of Cost of Power Purchases

DESCRIPTION		Jun-12	Jul-12	Dec-12	Jan-13	Feb-13	Mar-13
Variable and other charges	Mill Rs	9.783507	10.976966	9.733097	9.047127	8.737273	8.647290
Differential due to increase in borrowing c	Mill Rs	0.037126	0.843e48	(0.029161)	(0.011086)	(0.010788)	0.010788
Amount excluding GST	Mill Rs	42.089439	44.858329	39.774939	38.491522	37.100556	36.866211
GST @ 16%	Mill Rs	6.714310	7.177333	6.363990	6.158644	5.951089	5.898594
Amount payable with GST	Mill Rs	48.813749	52.835662	46.138929	44.650166	43.152645	42.764805
RATE OF PURCHASE FROM IIL							
Fuel Cost	Rs/kWh	4.962	4.619	4.620565	4.890344	4.892012	4.893036
Variable and ether charges	Rs/kWh	1.488	1.498	1.496828	1.582049	1.501114	1.499975
Differential due to increase in borrowing c	Rs/kWh	0.086	8.086	(0.001976)	(8.001841)	(0.001851)	0.001871
Rate excluding GST		6.456	6.123	6.113617	6.190552	6.391273	6.394883
GST @ 17%		1.033	0.980	0.978179	1.822488	1.822604	1.023181
Rate with GST		7.489	7.102	7.091795	7.413040	7.413876	7.418064