

Ref. No. RA&SP/NEPRA/071/1434
Dated: June 16, 2016

The Registrar
N.E.P.R.A
Islamabad

Subject: **PROVISIONAL MONTHLY FUEL COST ADJUSTMENT (FCA) DUE TO VARIATION IN FUEL AND POWER PURCHASE PRICE FOR THE MONTH OF MAY 2016**

Dear Sir

This is with reference to fuel cost adjustment based on units sent out for the month of May 2016, as per tariff determination of 23rd December 2009.

Required Monthly Adjustment (Provisional):

This submission is based on the provisional power purchase rates of NTDC, as the actual invoice for the month of May 2016 has not been received yet. The units sent out on Gas and Furnace oil at BQPS-I have been worked out in the ratio of actual units generated on Gas & Furnace Oil at BQPS-I.

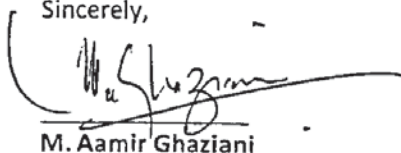
The summarized position is as under;

DESCRIPTION	May 2016 (Over March-16)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	584.140	34.993
Power Purchase Price Variation	(345.365)	(20.559)
Total Fuel Costs Adjustment	238.775	14.304

Economic Dispatch Order

KE dispatches as per Economic Merit Order from its own generating units (with the available fuel resources) and import from external sources. It is also certified that the cost of fuel and power purchase claim does not include any amount of late payment surcharge/ markup/ interest. All the requisite details including generating statistic sheets and invoices are attached.

Sincerely,


M. Aamir Ghaziani

Director (Finance & Regulations)

Encl.

For information & m.a.
— SAT-I
Chk to: DOT, V.I. 27.6.16
— SAT (Tech) cc / chairman
— DG (MSE) VC/M(T)
— Dir (Lic) M (Lic)
— M/T M (CA)

Senior Advisor Tariff
By No. 5296
Date: 21-6-16

K Electric Limited (Formerly KESC Ltd.)

FCA for the month of May-2016

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

DESCRIPTION	Unit	Mar-16	May-16
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MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS

I a. Monthly Variation in			
i Fuel Price	Mill Rs.	(420.315)	584.140
ii Power Purchase Price - Fuel component	Mill Rs.	257.233	(345.365)
iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs.	(163.081)	238.775
b. Units Sent Out			
	Mill kWh	1,335.969	1,669.289
II a Monthly Variation in FSA - due to			
i Fuel Price	Ps/kWh	(31.461)	34.993
ii Power Purchase Price - Fuel component	Ps/kWh	19.254	(20.689)
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	(12.207)	14.304

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-16	May-16
1 UNITS SENT OUT - KE			
1a UNITS SENT OUT ON GAS			
i Bin Qasim	Mill kWh	77.406	176.011
ii Bin Qasim II - CCPP	Mill kWh	210.290	345.809
iii Korangi Gas 2	Mill kWh	53.826	44.383
iv Site Gas 2	Mill kWh	55.788	42.747
v Korangi combined *	Mill kWh	127.864	120.665
Total	Mill kWh	525.175	729.615
1b UNITS SENT OUT ON F. OIL			
i Bin Qasim	Mill kWh	220.916	295.215
Total	Mill kWh	220.916	295.215
1c TOTAL UNITS SENT OUT (1 + 2)			
i Bin Qasim	Mill kWh	298.322	471.226
ii Bin Qasim II - CCPP	Mill kWh	210.290	345.809
iii Korangi Gas 2	Mill kWh	53.826	44.383
iv Site Gas 2	Mill kWh	55.788	42.747
v Korangi combined	Mill kWh	127.864	120.665
Total	Mill kWh	746.091	1,024.830
2 HEAT RATE AT BUS BAR			
2a Heat Rate of GAS - of item 1			
i Bin Qasim	Btu/kWh	10,650	10,650
ii Bin Qasim II - CCPP	Btu/kWh	8,605	8,605
iii Korangi Gas 2	Btu/kWh	9,500	9,500
iv Site Gas 2	Btu/kWh	9,500	9,500
v Korangi combined	Btu/kWh	9,110	9,110
2b Conversion Factor			
i Bin Qasim	Kg/kWh	0.264	0.264
ii Korangi Thermal	Kg/kWh	0.340	0.340
3 FUEL PRICES			
a. Fuel Prices- Gas (Rs/MMBTu)	Rs/MMBTu	600.00	613.00
b. Fuel Price -F.O (Rs/Kg)	Rs/Kg	19,376	24,862
4 COST OF FUEL			
4a COST OF GAS			
i Bin Qasim	Mill Rs	494.625	1,149.080
ii Bin Qasim II - CCPP	Mill Rs	1,085.727	1,824.096
iii Korangi Gas 2	Mill Rs	306.810	258.463
iv Site Gas 2	Mill Rs	317.992	248.935
v Korangi combined	Mill Rs	698.907	673.845
Total	Mill Rs	2,904.061	4,154.420
4b COST OF FURNACE OIL			
i Bin Qasim	Mill Rs	1,130.067	1,937.672
Total	Mill Rs	1,130.067	1,937.672
4c TOTAL COST OF FUEL			
i Bin Qasim	Mill Rs	1,624.693	3,086.752
ii Bin Qasim II - CCPP	Mill Rs	1,085.727	1,824.096
iii Korangi Gas 2	Mill Rs	306.810	258.463
iv Site Gas 2	Mill Rs	317.992	248.935
v Korangi combined	Mill Rs	698.907	673.845
Total	Mill Rs	4,034.128	6,092.091

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-16	May-16
5 COST OF FUEL PER KWH			
a Bin Qasim	Rs/kWh	5.446	6.550
b Bin Qasim II - CCPP	Rs/kWh	5.163	5.275
c Korangi Gas 2	Rs/kWh	5.700	5.824
d Site Gas 2	Rs/kWh	5.700	5.824
e Korangi combined	Rs/kWh	5.466	5.584
6 INCREASE/DECREASE IN COST OF FUEL PER KWH			
a Bin Qasim	Rs/kWh	(1.4089)	1.104
b Bin Qasim II - CCPP	Rs/kWh	-	0.112
c Korangi Gas 2	Rs/kWh	-	0.123
d Site Gas 2	Rs/kWh	-	0.123
e Korangi combined	Rs/kWh	-	0.118
7 INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH			
a Bin Qasim	Mill Rs	(420.315)	520.405
b Bin Qasim II - CCPP	Mill Rs	-	38.684
c Korangi Gas 2	Mill Rs	-	5.481
d Site Gas 2	Mill Rs	-	5.279
e Korangi combined	Mill Rs	-	14.290
Total	Mill Rs	(420.315)	584.140
8 INCREASE / DECREASE IN TARIFF			
TO BE PASSED IN THE MONTHLY BILLS			
a Fuel price variation	Mill Rs	(420.315)	584.140
b Units Sent Out - KE	Mill kWh	746.091	1,024.830
c Power Purchase	Mill kWh	589.878	644.459
d Total Units Sent Out (b + c)	Mill kWh	1,335.969	1,669.289
e Increase / Decrease in Tariff			
To be passed on to the consumers - FSA	Ps/kWh	(31.461)	34.993

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Mar-16	May-16
1 POWER PURCHASES			
a	KANUPP Mill kWh	27.971	43.059
b	TAPAL Mill kWh	81.901	85.099
c	GULAHMED Mill kWh	65.275	77.415
d	NTDC/WAPDA Mill kWh	403.385	428.523
e	ANOUD POWER Mill kWh	4.939	4.908
f	INT IND (IIL) Mill kWh	6.407	5.454
	TOTAL Mill kWh	589.878	644.459
2 COST OF POWER PURCHASE - FUEL COST			
a	KANUPP Mill Rs	158.314	264.387
b	TAPAL Mill Rs	342.902	456.438
c	GULAHMED Mill Rs	283.700	411.842
d	NTDC/WAPDA Mill Rs	2,122.289	1,704.666
e	ANOUD POWER Mill Rs	22.771	27.400
f	INT IND (IIL) Mill Rs	37.372	31.818
	TOTAL Mill Rs	2,967.348	2,896.551
3 COST OF POWER PURCHASE- Fuel Cost/kWh			
a	KANUPP Rs/kWh	5.660	6.140
b	TAPAL Rs/kWh	4.187	5.364
c	GULAHMED Rs/kWh	4.346	5.320
d	NTDC/WAPDA Rs/kWh	5.261	3.978
e	ANOUD POWER Rs/kWh	4.610	5.582
f	INT IND (IIL) Rs/kWh	5.833	5.834
	AVERAGE Rs/kWh	5.030	4.495
4 INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS			
a	Average Monthly Fuel cost Rs/kWh	5.030	4.495
b	Reference Rate - Previous Month Rs/kWh	4.594	5.030
c	Increase / Decrease in Avg. Rate Rs/kWh	0.436	(0.536)
d	Total Power Purchase Mill kWh	589.878	644.459
e	Increase / Decrease in Fuel Cost Mill Rs	257.233	(345.365)
5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS			
a	Fuel price variation in cost of power purchase	257.233	(345.365)
b	Units Sent Out - KE Mill kWh	746.091	1,024.830
c	Power Purchase Mill kWh	589.878	644.459
d	Total Units Sent Out (b + c) Mill kWh	1,335.969	1,669.289
e	Increase / Decrease in Tariff to be passed on to the consumers - FSA Ps/kWh	19.254	(20.689)

May-16

Description	MMBTU (As per Bills)	Cubic Meters	GCV AS PER BILLS	GCV AS PER BILLS	MMCF	MMCFD	BTU/CF	MMBTUs	Amount excluding Meter rent	Meter rent	Total Amount of SSGC Bills	Rs/ MMBTU
BIN QASIM												
18143200	325,360.8109	8,672,052	1,057.040	1,057.040	307.805	9.979	11,548.376	325,362.20	20,670	2,500	23,170	613.00
M2121941	712,597.5084	18,993,322	1,057.040	1,057.040	674.147	21.747	25,292.977	712,600.55	436,822.273	2,500	199,448.677	613.00
M12167864	371,453.5287	9,900,591	1,057.040	1,057.040	351.411	11.336	13,184.393	371,455.12	227,701.013	2,500	436,824.773	613.00
18143201	547,494.5076	14,592,725	1,057.040	1,057.040	517.953	16.708	19,432.802	547,496.85	335,614.133	2,500	227,703.513	613.00
M2121940	15,420.00	411	1,057.040	1,057.040	0.015	0.000	0.547	15.42	20,670	2,500	335,616.633	613.00
18143197	1,956,921.7756	52,159,101	1,057.040	1,057.040	1,851.33	59.72	69,459.095	1,956,930.1363	1,199,624.936	15,000	23,170	613.00
Total											1,199,639.936	613.00
BIN QASIM COMBINED CYCLE POWER PLANT												
16128821	551,280.4061	14,693,633	1,057.040	1,057.040	521.534	16.824	19,567.179	551,282.76	337,934.889	2,500	337,937.389	613.00
M16647813	566,051.5933	15,087,339	1,057.040	1,057.040	535.509	17.274	20,091.468	566,054.01	346,989.627	2,500	346,992.127	613.00
M16647821	583,430.3412	15,550,546	1,057.040	1,057.040	551.950	17.805	20,708.310	583,432.83	357,642.799	2,500	357,645.299	613.00
M16647825	584,872.1326	15,588,975	1,057.040	1,057.040	553.314	17.849	20,759.486	584,874.63	358,526.617	2,500	358,529.117	613.00
16647822	625,278.0112	16,665,939	1,057.040	1,057.040	591.539	19.082	22,193.654	625,280.68	383,295.421	2,500	383,297.921	613.00
Total	2,910,912.4844	77,586,432	1,057.040	1,057.040	2,753.8456	88.834	103,320.097	2,910,924.92	1,784,389.353	12,500	1,784,401.853	613.00
KORANGI TOWN GAS TURBINE-II												
16128823	298,860.8848	8,424,002	999.530	999.530	299.001	9.645	10,607.716	298,860.21	183,201.722	3,000	183,204.722	613.00
15300069	127,743.9111	3,600,722	999.530	999.530	127.804	4.123	4,534.120	127,743.62	78,307.018	2,500	78,309.518	613.00
16844637	684.3572	19,290	999.530	999.530	0.685	0.022	24.290	684.36	419.511	2,500	422.011	613.00
Total	427,289.1531	12,044,014	999.530	999.530	427.489	13.790	15,166.127	427,288.19	261,928.251	8,000	261,936.251	613.00
SITE GAS TURBINE-II												
16392828	233,142.0723	6,479,325	1,013.760	1,013.760	229.977	7.419	8,275.086	233,141.03	142,916.090	3,000	142,919.090	613.00
16392831	187,404.6196	5,208,221	1,013.760	1,013.760	184.860	5.963	6,651.692	187,403.78	114,879.032	2,500	114,881.532	613.00
Total	420,546.6919	11,687,546	1,013.760	1,013.760	414.8367	13.382	14,926.778	420,544.82	257,795.122	5,500	257,800.622	613.00
KORANGI COMBINED CYCLE POWER PLANT												
18143203	314,941.2184	8,780,795	1,010.510	1,010.510	311.665	10.054	11,178.462	314,940.31	193,058.967	2,500	193,061.467	613.00
13403410	312,493.7943	8,712,559	1,010.510	1,010.510	309.243	9.976	11,091.594	312,492.90	191,558.696	2,500	191,561.196	613.00
181844633	375,550.7593	10,470,634	1,010.510	1,010.510	371.644	11.989	13,329.725	375,549.68	230,212.615	2,500	230,215.115	613.00
Total	1,002,985.7720	27,963,988	1,010.510	1,010.510	992.5512	32.018	35,599.781	1,002,982.89	614,830.278	7,500	614,837.778	613.00
Total RE Generating Stations												
	6,718,655.8770	181,441,081	1,043.261	1,043.261	6,440.0528	207.744	238,471.879	6,718,670.95	4,118,567.940	48,500	4,118,616.440	613.00
MMBTU (As per Bills)												
			1,010.510	1,010.510					20,670	3,000	23,670	
			1,004.600	1,004.600					20,670	2,000	22,670	
Total	6,718,655.8770	181,441,081	1,043.263	1,043.263	6,440.0528	207.74	238,471.8792	6,718,670.9542	4,118,609.280	53,500	4,118,662.780	

SSGC Billet

GST @17%

700,172.673

4,818.835.46

INVOICES

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Grand Total (BYCO)
BYCO	13-May-16	500138106	586.689	14,401,437.00		
BYCO	13-May-16	500138110	140.924	3,459,257.00		
BYCO	16-May-16	500138550	1,483.439	36,470,305.00		
BYCO	17-May-16	500138553	986.884	25,587,864.00		
BYCO	19-May-16	500138589	990.060	25,675,414.00		
BYCO	20-May-16	500138273	293.558	7,812,895.00		
BYCO	25-May-16	500140159	569.124	14,759,201.00		
BYCO	28-May-16	500140180	737.850	19,134,804.00		
BYCO	30-May-16	500140385	2,843.842	73,749,895.00		
BYCO	30-May-16	500140410	658.491	17,076,772.00		
BYCO	31-May-16	500140909	1,221.568	31,679,155.00		
BYCO	31-May-16	500140908	226.508	5,874,075.00		
				10,739	277,481,074	

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Total Financial charges (PSO)	Grand Total (PSO)
PSO	1-May-16	964926809	2,477.00	61,233,401.00			
PSO	2-May-16	964926812	3,481.00	86,045,290.00			
PSO	3-May-16	964926816	2,477.00	61,222,748.00			
PSO	4-May-16	964926863	2,483.00	61,363,363.00			
PSO	5-May-16	964933198	2,474.00	61,139,846.00			
PSO	6-May-16	964936781	2,471.00	61,078,395.00			
PSO	7-May-16	964943479	2,474.00	61,142,319.00			
PSO	8-May-16	964943482	2,466.00	60,993,572.00			
PSO	10-May-16	964850565	599.00	14,807,559.00			
PSO	10-May-16	964946334	1,885.00	48,585,242.00			
PSO	11-May-16	964954314	2,488.00	61,448,365.00			
PSO	12-May-16	964958631	2,475.00	61,178,997.00			
PSO	12-May-16	964955813	2,481.00	61,333,258.00			
PSO	13-May-16	964962612	2,474.00	61,151,964.00			
PSO	14-May-16	964963931	2,485.00	61,419,891.00			
PSO	15-May-16	964967070	2,470.00	61,057,515.00			
PSO	16-May-16	964973158	2,479.00	64,713,870.00			
PSO	17-May-16	964977828	2,480.00	64,755,176.00			
PSO	18-May-16	964982457	2,493.00	65,081,212.00			
PSO	19-May-16	964985436	2,493.00	65,080,193.00			
PSO	20-May-16	964990495	2,498.00	65,215,025.00			
PSO	21-May-16	964981637	1,284.00	33,523,856.00			
PSO	22-May-16	964995189	2,491.00	65,045,885.00			
PSO	22-May-16	964995187	1,205.00	31,470,984.00			
PSO	23-May-16	964999741	2,490.00	65,013,195.00			
PSO	24-May-16	965004671	2,486.00	64,911,914.00			
PSO	25-May-16	965008933	2,996.00	78,235,821.00			
PSO	26-May-16	965013338	2,986.00	77,976,523.00			
PSO	27-May-16	965016932	2,989.00	78,039,396.00			
PSO	28-May-16	965018479	830.00	21,674,068.00			
PSO	29-May-16	965022622	2,879.00	77,779,549.00			
PSO	29-May-16	965022619	2,158.00	56,345,824.00			
PSO	30-May-16	965026792	1,683.00	44,203,394.00			
PSO	31-May-16	965029888	1,298.00	33,902,218.00			
PSO	31-May-16	965030715	2,981.00	77,833,571.00			
				81,489	2,351,482,993	277,481,074	

PSO & BYCO :		Mton	PKR
Opening as at May 2016		13,526	296,847,854
Purchases May 2016		92,208	2,351,482,993