

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

Ref. No. RA&SP/NEPRA/071/ 1447
Dated: July 26, 2016

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

Dear Sir

This is with reference to fuel cost adjustment request for the month of June 2016, submitted vide our letter ref: Ref. No. RA&SP/NEPRA/071/1446 dated July 19, 2016, as per tariff determination of 23rd December 2009, we hereby submit our revised FCA as under:

Revised Monthly Adjustment Request

The revision is based on the actual invoice of NTDC for the month of June 2016, received on 25th July 2016. Therefore, we have revised our fuel cost adjustment petition for the month of June 2016 after incorporating the actual invoice of NTDC (CPPA). Please note that 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 revised submission is as follows:

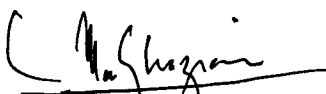
DESCRIPTION	June 2016 (Over Mar-16)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	794.005	48.566
Power Purchase Price Variation	(53.873)	(3.295)
Total Fuel Costs Adjustment	740.132	45.271

Senior Advisor T/iff-1
By No. 6361
Date: 1-8-16

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 have already been submitted previously vide our letter dated July 19, 2016.

Sincerely,



M. Aamir Ghaziani
Director (Finance & Regulations)

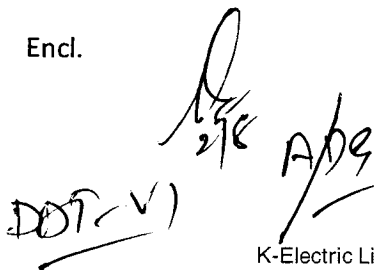
Encl.

For information + u/s R.

SAT-1
m e


Chairman
- u/s m a,

Registrar
By No. 7760
Date: 01-08-16


DOT-VI

K Electric Limited (Formerly KESC Ltd.)

FCA for the month of June-2016

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

DESCRIPTION	Unit	Mar-16	Jun-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)	794.005
	ii Power Purchase Price - Fuel component	Mill Rs.	257.233	(53.873)
	iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs.	(163.081)	740.132
	b. Units Sent Out	Mill kWh	1,335.969	1,634.889
II	a Monthly Variation in FSA - due to			
	i Fuel Price	Ps/kWh	(31.461)	48.566
	ii Power Purchase Price - Fuel component	Ps/kWh	19.254	(3.295)
	b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	(12.207)	45.271

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-16	Jun-16
1 UNITS SENT OUT - KE			
1a UNITS SENT OUT ON GAS			
i Bin Qasim	Mill kWh	77.406	142.263
ii Bin Qasim II - CCPP	Mill kWh	210.290	325.582
iii Korangi Gas 2	Mill kWh	53.826	49.614
iv Site Gas 2	Mill kWh	55.788	47.554
v Korangi combined *	Mill kWh	127.864	135.884
Total	Mill kWh	525.175	700.897
1b UNITS SENT OUT ON F. OIL			
i Bin Qasim	Mill kWh	220.916	310.145
Total	Mill kWh	220.916	310.145
1c TOTAL UNITS SENT OUT (1 + 2)			
i Bin Qasim	Mill kWh	298.322	452.408
ii Bin Qasim II - CCPP	Mill kWh	210.290	325.582
iii Korangi Gas 2	Mill kWh	53.826	49.614
iv Site Gas 2	Mill kWh	55.788	47.554
v Korangi combined	Mill kWh	127.864	135.884
Total	Mill kWh	746.091	1,011.042
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	27,658
4 COST OF FUEL			
4a COST OF GAS			
i Bin Qasim	Mill Rs	494.625	928.756
ii Bin Qasim II - CCPP	Mill Rs	1,085.727	1,717.401
iii Korangi Gas 2	Mill Rs	306.810	288.925
iv Site Gas 2	Mill Rs	317.992	276.930
v Korangi combined	Mill Rs	698.907	758.837
Total	Mill Rs	2,904.061	3,970.849
4b COST OF FURNACE OIL			
i Bin Qasim	Mill Rs	1,130.067	2,264.596
Total	Mill Rs	1,130.067	2,264.596
4c TOTAL COST OF FUEL			
i Bin Qasim	Mill Rs	1,624.693	3,193.352
ii Bin Qasim II - CCPP	Mill Rs	1,085.727	1,717.401
iii Korangi Gas 2	Mill Rs	306.810	288.925
iv Site Gas 2	Mill Rs	317.992	276.930
v Korangi combined	Mill Rs	698.907	758.837
Total	Mill Rs	4,034.128	6,235.445

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-16	Jun-16
5	<u>COST OF FUEL PER KWH</u>		
a	Bin Qasim Rs/kWh	5.446	7.059
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	<u>INCREASE/DECREASE IN COST OF FUEL PER KWH</u>		
a	Bin Qasim Rs/kWh	(1.4089)	1.612
b	Bin Qasim II - CCPP Rs/kWh	-	0.112
c	Korangi Gas 2 Rs/kWh	-	0.124
d	Site Gas 2 Rs/kWh	-	0.124
e	Korangi combined Rs/kWh	-	0.118
7	<u>INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH</u>		
a	Bin Qasim Mill Rs	(420.315)	729.491
b	Bin Qasim II - CCPP Mill Rs	-	36.421
c	Korangi Gas 2 Mill Rs	-	6.127
d	Site Gas 2 Mill Rs	-	5.873
e	Korangi combined Mill Rs	-	16.093
	Total Mill Rs	(420.315)	794.005
8	<u>INCREASE / DECREASE IN TARIFF</u>		
	<u>TO BE PASSED IN THE MONTHLY BILLS</u>		
a	Fuel price variation Mill Rs	(420.315)	794.005
b	Units Sent Out - KE Mill kWh	746.091	1,011.042
c	Power Purchase Mill kWh	589.878	623.847
d	Total Units Sent Out (b + c) Mill kWh	1,335.969	1,634.889
e	Increase / Decrease in Tariff		
	To be passed on to the consumers - FSA Ps/kWh	(31.461)	48.566

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Mar-16	Jun-16
1	<u>POWER PURCHASES</u>		
a	KANUPP Mill kWh	27.971	41.311
b	TAPAL Mill kWh	81.901	72.862
c	GUL AHMED Mill kWh	65.275	79.810
d	NTDC/WAPDA Mill kWh	403.385	421.276
e	ANOUD POWER Mill kWh	4.939	2.857
f	INT IND (IIL) Mill kWh	6.407	5.732
	TOTAL Mill kWh	589.878	623.847
2	<u>COST OF POWER PURCHASE - FUEL COST</u>		
a	KANUPP Mill Rs	158.314	259.645
b	TAPAL Mill Rs	342.902	449.986
c	GUL AHMED Mill Rs	283.700	500.181
d	NTDC/WAPDA Mill Rs	2,122.289	1,823.976
e	ANOUD POWER Mill Rs	22.771	17.089
f	INT IND (IIL) Mill Rs	37.372	33.476
	TOTAL Mill Rs	2,967.348	3,084.354
3	<u>COST OF POWER PURCHASE- Fuel Cost/kWh</u>		
a	KANUPP Rs/kWh	5.660	6.285
b	TAPAL Rs/kWh	4.187	6.176
c	GUL AHMED Rs/kWh	4.346	6.267
d	NTDC/WAPDA Rs/kWh	5.261	4.330
e	ANOUD POWER Rs/kWh	4.610	5.982
f	INT IND (IIL) Rs/kWh	5.833	5.840
	AVERAGE Rs/kWh	5.030	4.944
4	<u>INCREASE / DERCREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS</u>		
a	Average Monthly Fuel cost Rs/kWh	5.030	4.944
b	Reference Rate - Previous Month Rs/kWh	4.594	5.030
c	Increase / Decrease in Avg. Rate Rs/kWh	0.436	(0.086)
d	Total Power Purchase Mill kWh	589.878	623.847
e	Increase / Decrease in Fuel Cost Mill Rs	257.233	(53.873)
5	<u>INCREASE / DERCREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS</u>		
a	Fuel price variation in cost of power purchase	257.233	(53.873)
b	Units Sent Out - KE Mill kWh	746.091	1,011.042
c	Power Purchase Mill kWh	589.878	623.847
d	Total Units Sent Out (b + c) Mill kWh	1,335.969	1,634.889
e	Increase / Decrease in Tariff to be passed on to the consumers - FSA Ps/kWh	19.254	(3.295)

K-Electric Limited

Jun-16

Description	MMBTU (As per Bills)	Cubic Meters	GCV AS PER BILLS	GCV AS PER BTU's ON BILLS	MMCF	MMCFD	BTU/CF	MMBTUs	Amount excluding Meter rent	Meter rent	Total Amount of SSGC Bills	Rs/ MMBTU
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BIN QASIM

18143200	-	-	1,055.170	-	-	-	-	-	20,670	2,500	23,170	-
M2121941	334,336.1435	8,927,032	1,055.170	1,055.17000	316.855	10.562	11,866.896	334,336.14	204,948,056	2,500	204,950,556	613.00
M12169664	529,618.3872	14,141,218	1,055.170	1,055.17000	501.927	16.731	18,798.226	529,618.39	324,656,071	2,500	324,658,571	613.00
18143201	4.4568	119	1,055.170	1,055.16987	0.004	0.000	0.158	4.46	20,670	2,500	23,170	-
M2121940	510,087.3389	13,619,724	1,055.170	1,055.17000	483.417	16.114	18,104.992	510,087.34	312,683,539	2,500	312,686,039	613.00
18143197	177,710.9892	4,745,020	1,055.170	1,055.17000	168.419	5.614	6,307.657	177,710.99	108,936,836	2,500	108,939,336	613.00
Total	1,551,757.3156	41,433,113	1,055.1700	1,055.17000	1,470.62	49.02	55,077.929	1,551,757.3155	951,265,842	15,000	951,280,842	613.02

BIN QASIM COMBINED CYCLE POWER PLANT

16128821	518,733.2323	13,850,576	1,055.170	1,055.17000	491.611	16.387	18,411.869	518,733.23	317,983,471	2,500	317,985,971	613.00
M16647823	533,666.9223	14,249,317	1,055.170	1,055.17000	505.764	16.859	18,941.924	533,666.92	327,137,823	2,500	327,140,323	613.00
M16647821	548,029.1680	14,632,800	1,055.170	1,055.17000	519.375	17.313	19,451.696	548,029.17	335,941,880	2,500	335,944,380	613.00
M16647825	553,054.2294	14,766,973	1,055.170	1,055.17000	524.138	17.471	19,630.055	553,054.23	339,022,243	2,500	339,024,743	613.00
16647822	590,429.2209	15,764,914	1,055.170	1,055.17000	559.558	18.652	20,956.640	590,429.22	361,933,112	2,500	361,935,612	613.00
Total	2,743,912.7729	73,264,580	1,055.170	1,055.17000	2,600.4462	86.682	97,392.184	2,743,912.77	1,682,018,529	12,500	1,682,031,029	613.00

KORANGI TOWN GAS TURBINE-II

16128823	316,062.3728	8,936,747	996.410	996.41333	317.200	10.573	11,218.251	316,061.31	193,746,235	3,000	193,749,235	613.00
15300069	134,556.1624	3,804,611	996.410	996.41334	135.041	4.501	4,775.908	134,555.71	82,482,928	2,500	82,485,428	613.00
16844632	576.1219	16,290	996.410	996.41326	0.578	0.019	20.449	576.12	353,163	2,500	355,663	613.00
Total	451,194.6571	12,757,648	996.410	996.41333	452.819	15.094	16,014.607	451,193.15	276,582,326	8,000	276,590,326	613.00

SITE GAS TURBINE-II

16392828	259,585.5905	7,226,304	1,012.070	1,012.07000	256.490	8.550	9,213.707	259,585.59	159,125,967	3,000	159,128,967	613.00
16392831	208,790.2833	5,812,272	1,012.070	1,012.07000	206.300	6.877	7,410.783	208,790.28	127,988,444	2,500	127,990,944	613.00
Total	468,375.8738	13,038,576	1,012.070	1,012.07000	462.7900	15.426	16,624.490	468,375.87	287,114,411	5,500	287,119,911	613.00

KORANGI COMBINED CYCLE POWER PLANT

18143203	355,494.0984	9,919,812	1,009.660	1,009.66000	352.093	11.736	12,617.874	355,494.10	217,917,882	2,500	217,920,382	613.00
13403410	347,279.9864	9,690,603	1,009.660	1,009.66000	343.957	11.465	12,326.323	347,279.99	212,882,632	2,500	212,885,132	613.00
16844633	420,527.7799	11,734,531	1,009.660	1,009.66000	416.504	13.883	14,926.174	420,527.78	257,783,529	2,500	257,786,029	613.00
Total	1,123,301.8647	31,344,946	1,009.660	1,009.66000	1,112.5546	37.085	39,870.371	1,123,301.86	688,584,043	7,500	688,591,543	613.00

Total KE Generating Stations	6,338,542.4841	171,838,863	1,039.236	1,039.23607	6,099.2326	203.308	224,979.581	6,338,540.97	3,885,565,151	48,500	3,885,613,651	613.01
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MMM00001	-	-	1,009.660	-	-	-	-	-	20,670	3,000	23,670	-
14240562	-	-	1,006.210	-	-	-	-	-	20,670	2,000	22,670	-

Total	6,338,542.4841	171,838,863	1,039.236	1,039.23607	6,099.2326	203.31	224,979.5811	6,338,540.9718	3,885,606,491	53,500	3,885,659,991	613.01
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SSGC Billed

GST @17% 660,562,198
4,546,222,189

INVOICES

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Grand Total (BYCO)
BYCO	2-Jun-18	500141087	1,498.530	41,122,376.00	8,224,475	49,346,851
BYCO	4-Jun-16	500141220	880.173	24,153,540.00	4,830,708	28,984,248
BYCO	15-Jun-16	500142424	686.715	18,295,886.00	3,659,173	21,955,040
BYCO						
			3,045	83,571,782	16,714,356	100,286,139

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Total Financial charges (PSO)	Grand Total (PSO)
PSO	1-Jun-16	965039321	2,994.00	82,700,531.00			
PSO	2-Jun-18	965039322	2,983.00	82,415,237.00			
PSO	3-Jun-16	965040820	2,494.00	68,893,940.00			
PSO	4-Jun-16	965041843	2,486.00	68,684,562.00			
PSO	5-Jun-16	965046460	2,478.00	68,465,516.00			
PSO	6-Jun-16	965050007	2,495.00	68,922,339.00			
PSO	8-Jun-18	965053391	2,921.00	80,692,314.00			
PSO	9-Jun-16	965056475	2,931.00	80,960,203.00			
PSO	9-Jun-16	965059289	2,997.00	82,802,857.00			
PSO	10-Jun-16	965064329	2,991.00	82,622,432.00			
PSO	12-Jun-16	965066049	2,992.00	82,663,014.00			
PSO	12-Jun-16	965066052	2,491.00	68,806,476.00			
PSO	14-Jun-16	965071623	2,494.00	66,895,211.00			
PSO	14-Jun-16	965075163	2,495.00	68,930,710.00			
PSO	15-Jun-16	965078249	2,991.00	82,624,614.00			
PSO	16-Jun-18	965081889	2,996.00	87,871,755.00			
PSO	17-Jun-18	965084224	2,995.00	87,623,975.00			
PSO	18-Jun-16	965087452	2,893.00	84,645,936.00			
PSO	19-Jun-18	965087453	101.00	2,947,552.00			
PSO	19-Jun-16	965087455	2,490.00	72,867,638.00			
PSO	21-Jun-16	965093219	2,493.00	72,938,883.00			
PSO	21-Jun-16	965095767	2,492.00	72,902,602.00			
PSO	23-Jun-16	965100778	2,989.00	87,455,005.00			
PSO	23-Jun-16	965104753	2,994.00	87,815,783.00			
PSO	24-Jun-16	965107209	1,698.00	49,875,374.00			
PSO	25-Jun-18	965112730	2,988.00	87,425,658.00			
PSO	26-Jun-18	965108467	1,297.00	37,949,625.00			
PSO	27-Jun-16	965112731	2,495.00	73,005,594.00			
PSO	27-Jun-16	965116535	2,999.00	87,755,465.00			
PSO	28-Jun-16	965120559	2,995.00	87,637,054.00			
PSO	29-Jun-16	965124078	2,070.00	60,571,777.00			
PSO	30-Jun-16	965126575	923.00	27,012,494.00			
PSO	30-Jun-16	965126576	2,996.00	87,650,835.00			
PSO							
			84,137	2,394,432,961			
			87,182	2,478,004,743	83,571,782	16,714,356	100,286,139

PSO & BYCO

Opening as at Jun' 16
Purchases Jun' 16

Mton

PKR

21,478

553,546,354

87,182

2,478,004,744

Date	Quantity	Amount
16.06.2016	(11,675)	(314,664,414)
16.06.2016	(9,798)	(264,075,743)
16.06.2016	(8,388)	(226,065,919)
16.06.2016	(2,150)	(57,948,724)
16.06.2016	(2,129)	(57,379,519)
16.06.2016	(8,910)	(240,132,731)
30.06.2016	(12,232)	(346,859,567)
30.06.2016	(11,212)	(317,950,751)
30.06.2016	(7,402)	(209,902,117)
30.06.2016	(8)	(227,139)
30.06.2016	(3,723)	(105,585,263)
30.06.2016	(8,973)	(254,440,227)

(86,602) (2,395,232,114)

22,058 636,318,984

22,058

636,318,984

Consumption Jun' 16

Closing as at Jun' 16