



Electricity Regulatory Authority of Pakistan

The Registrar
NEPRA
Islamabad

Ref. No. RA&SP/NEPRA/2016/244
Dated: Dec 15th, 2016

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

Dear Sir,

This is with reference to fuel cost adjustment based on units sent out for the month of November 2016, as per the Multi Year Tariff Petition (I-MYT) filed by K-Electric (KE) for the period commencing from July 01, 2016 to June 30, 2026.

Required Monthly Adjustment (Provisional):

This submission is based on the provisional power purchase rate of NTDC. 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	Nov 2016 (Over Sept-16)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	249.115	20.627
Power Purchase Price Variation	477.445	39.533
Total Fuel Costs Adjustment	726.560	60.160

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.

As the I-MYT petition, is in the process of approval, this submission is provisional and in case of any adjustment, if required, revised petition will be filed accordingly.

Sincerely,

M. Aamir Ghaziani
Director (Finance & Regulations)

*For information & u/s P.
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MF
ce: ve/mct/*

Registrar
Dy. No. 11725
Dated: 16-12-2016

Encl.

K Electric Limited (Formerly KESC Ltd.)

FCA for the month of November-2016

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

DESCRIPTION	Unit	Sep-16	Nov-16
I a. Monthly Variation in			
i Fuel Price	Mill Rs.	173.353	249.115
ii Power Purchase Price - Fuel component	Mill Rs.	(165.855)	477.445
iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs.	7.497	726.560
b. Units Sent Out	Mill kWh	1,477.099	1,207.726
II a Monthly Variation in FSA - due to			
i Fuel Price	Ps/kWh	11.736	20.627
ii Power Purchase Price - Fuel component	Ps/kWh	(11.228)	39.533
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	0.508	60.160

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION	Sep-16	Nov-16	
1 UNITS SENT OUT - KE			
1a UNITS SENT OUT ON GAS			
i Bin Qasim	Mill kWh	119.263	46.598
ii Bin Qasim II - CCPP	Mill kWh	334.196	349.105
iii Korangi Gas 2	Mill kWh	45.561	22.186
iv Site Gas 2	Mill kWh	39.476	4.993
v Korangi combined *	Mill kWh	109.570	52.226
Total	Mill kWh	648.065	475.108
1b UNITS SENT OUT ON F. OIL			
i Bin Qasim	Mill kWh	242.559	188.656
Total	Mill kWh	242.559	188.656
1c TOTAL UNITS SENT OUT (1 + 2)			
i Bin Qasim	Mill kWh	361.823	135.254
ii Bin Qasim II - CCPP	Mill kWh	334.196	349.105
iii Korangi Gas 2	Mill kWh	45.561	22.186
iv Site Gas 2	Mill kWh	39.476	4.993
v Korangi combined	Mill kWh	109.570	52.226
Total	Mill kWh	890.625	663.764
2 HEAT RATE AT BUS BAR			
2a Heat Rate of GAS - of item 1			
i Bin Qasim	8tu/kWh	10,650	10,650
ii Bin Qasim II - CCPP	8tu/kWh	8,505	8,505
iii Korangi Gas 2	8tu/kWh	9,500	9,500
iv Site Gas 2	8tu/kWh	9,500	9,500
v Korangi combined	8tu/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	613	613
b. Fuel Price -F.O (Rs/Kg)	Rs/Kg	30,520	34,571
4 COST OF FUEL			
4a COST OF GAS			
i Bin Qasim	Mill Rs	778.605	304.211
ii Bin Qasim II - CCPP	Mill Rs	1,762.839	1,841.482
iii Korangi Gas 2	Mill Rs	265.322	129.200
iv Site Gas 2	Mill Rs	229.887	29.076
v Korangi combined	Mill Rs	611.884	291.654
Total	Mill Rs	3,648.537	2,595.622
4b COST OF FURNACE OIL			
i Bin Qasim	Mill Rs	1,954.338	1,721.839
Total	Mill Rs	1,954.338	1,721.839
4c TOTAL COST OF FUEL			
i Bin Qasim	Mill Rs	2,731.943	2,026.050
ii Bin Qasim II - CCPP	Mill Rs	1,762.839	1,841.482
iii Korangi Gas 2	Mill Rs	265.322	129.200
iv Site Gas 2	Mill Rs	229.887	29.076
v Korangi combined	Mill Rs	611.884	291.654
Total	Mill Rs	5,602.875	4,317.461

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Sep-16	Nov-16	
5 COST OF FUEL PER KWH				
a	Bin Qasim	Rs/kWh	7.553	8.612
b	Bin Qasim II - CCPP	Rs/kWh	5.275	5.275
c	Korangi Gas 2	Rs/kWh	5.824	5.824
d	Site Gas 2	Rs/kWh	5.824	5.824
e	Korangi combined	Rs/kWh	5.584	5.584
6 INCREASE/DECREASE IN COST OF FUEL PER KWH				
a	Bin Qasim	Rs/kWh	0.479	1.059
b	Bin Qasim II - CCPP	Rs/kWh	-	-
c	Korangi Gas 2	Rs/kWh	-	-
d	Site Gas 2	Rs/kWh	-	-
e	Korangi combined	Rs/kWh	-	-
7 INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH				
a	Bin Qasim	Mill Rs	173.353	249.115
b	Bin Qasim II - CCPP	Mill Rs	-	-
c	Korangi Gas 2	Mill Rs	-	-
d	Site Gas 2	Mill Rs	-	-
e	Korangi combined	Mill Rs	-	-
	Total	Mill Rs	173.353	249.115
8 INCREASE / DECREASE IN TARIFF				
TO BE PASSED IN THE MONTHLY BILLS				
a	Fuel price variation	Mill Rs	173.353	249.115
b	Units Sent Out - KE	Mill kWh	880.625	663.764
c	Power Purchase	Mill kWh	586.475	543.962
d	Total Units Sent Out (b + c)	Mill kWh	1,477.099	1,207.726
e	Increase / Decrease in Tariff			
	To be passed on to the consumers - FSA	Ps/kWh	11.736	20.627

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Sep-16	Nov-16	
1. POWER PURCHASES				
a	KANUPP	Mill kWh	24.926	35.820
b	TAPAL	Mill kWh	59.462	39.747
c	GUL AHMED	Mill kWh	63.200	44.865
d	NTDC/WAPDA	Mill kWh	428.146	413.415
e	ANOUO POWER	Mill kWh	4.934	4.804
f	INT IND (IIL)	Mill kWh	5.807	5.312
	TOTAL	Mill kWh	586.475	543.962
2. COST OF POWER PURCHASE - FUEL COST				
a	KANUPP	Mill Rs	166.610	247.150
b	TAPAL	Mill Rs	387.033	283.126
c	GUL AHMED	Mill Rs	428.100	353.060
d	NTDC/WAPDA	Mill Rs	1,566.672	1,954.337
e	ANOUO POWER	Mill Rs	32.111	33.600
f	INT IND (IIL)	Mill Rs	33.747	30.940
	TOTAL	Mill Rs	2,614.274	2,902.213
3. COST OF POWER PURCHASE- Fuel Cost/kWh				
a	KANUPP	Rs/kWh	6.684	6.900
b	TAPAL	Rs/kWh	6.509	7.123
c	GUL AHMED	Rs/kWh	6.774	7.869
d	NTDC/WAPDA	Rs/kWh	3.659	4.727
e	ANOUO POWER	Rs/kWh	6.508	6.994
f	INT IND (IIL)	Rs/kWh	5.811	5.825
	AVERAGE	Rs/kWh	4.458	5.335
4. INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS				
a	Average Monthly Fuel cost	Rs/kWh	4.458	5.335
b	Reference Rate - Previous Month	Rs/kWh	4.740	4.458
c	Increase / Decrease in Avg. Rate	Rs/kWh	(0.283)	0.878
d	Total Power Purchase	Mill kWh	586.475	543.962
e	Increase / Decrease in Fuel Cost	Mill Rs	(165.855)	477.445
5. INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS				
a	Fuel price variation in cost of power purchase		(165.855)	477.445
b	Units Sent Out - KE	Mill kWh	890.625	663.764
c	Power Purchase	Mill kWh	586.475	543.962
d	Total Units Sent Out (b + c)	Mill kWh	1,477.099	1,207.726
e	Increase / Decrease in Tariff to be passed on to the consumers - FSA	Ps/kWh	(11.228)	39.533

K-Electric Limited

Nov-16

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

18143200	-	-	1,051.790	-	-	-	-	20,670	2,500	23,170	-
M2121941	1,049.0704	28,101	1,051.790	1,051.79005	0.997	0.033	1,049.07	643,980	2,500	645,580	613.00
M12169664	183,803.9501	4,923,478	1,051.790	1,051.79000	174.753	5.825	183,803.95	112,671,821	2,500	112,674,321	613.00
18143201	463.9638	12,428	1,051.790	1,051.79003	0.441	0.015	463.96	284,410	2,500	286,910	613.00
M2121940	177,772.0103	4,761,903	1,051.790	1,051.79000	169.019	5.634	177,772.01	108,974,242	2,500	108,976,742	613.00
18143197	180,886.6304	4,845,333	1,051.790	1,051.79000	171.980	5.733	180,886.63	110,883,504	2,500	110,886,004	613.00
Total	543,975.6250	14,571,243	1,051.7900	1,051.79000	517.19	17.24	543,975.6254	333,477,727	15,000	333,492,727	613.04

BIN QASIM COMBINED CYCLE POWER PLANT

16128821	566,688.8698	15,179,653	1,051.790	1,051.79000	538.785	17.960	566,688.87	347,380,277	2,500	347,382,777	613.00
M16647823	575,600.9839	15,418,378	1,051.790	1,051.79000	547.258	18.242	575,600.98	352,843,403	2,500	352,845,903	613.00
M16647821	594,306.2133	15,919,427	1,051.790	1,051.79000	565.043	18.835	594,306.21	364,309,709	2,500	364,312,209	613.00
M16647825	603,073.6655	16,154,277	1,051.790	1,051.79000	573.378	19.113	603,073.67	369,684,157	2,500	369,686,657	613.00
16647822	635,396.9114	17,020,106	1,051.790	1,051.79000	604.110	20.137	635,396.91	389,498,307	2,500	389,500,807	613.00
Total	2,975,066.6439	79,691,841	1,051.790	1,051.79000	2,828.5748	94.286	2,975,066.65	1,823,715,853	12,500	1,823,728,353	613.00

KORANGI TOWN GAS TURBINE-II

16128823	135,259.6455	3,794,368	1,004.330	1,004.32667	134.677	4.489	135,260.09	82,914,163	3,000	82,917,163	613.00
15300069	80,586.6112	2,260,654	1,004.330	1,004.32667	80.239	2.675	80,586.88	49,399,593	2,500	49,402,093	613.00
16844632	-	-	1,044.330	-	-	-	-	20,670	2,500	23,170	-
Total	215,846.2567	6,055,022	1,004.330	1,004.32667	214.916	7.164	215,846.97	132,334,426	8,000	132,342,426	613.09

SITE GAS TURBINE-II

16392828	29,980.5528	833,570	1,013.310	1,013.31334	29.587	0.986	29,980.45	18,378,079	3,000	18,381,079	613.00
16392831	24,051.2319	668,713	1,013.310	1,013.31333	23.735	0.791	24,051.15	14,743,405	2,500	14,745,905	613.00
Total	54,031.7847	1,502,283	1,013.310	1,013.31334	53.3219	1.777	54,031.61	33,121,484	5,500	33,126,984	613.00

KORANGI COMBINED CYCLE POWER PLANT

18143203	142,421.6776	3,948,781	1,016.150	1,016.15333	140.158	4.672	142,421.21	87,304,488	2,500	87,306,988	613.00
13403410	136,314.9509	3,779,466	1,016.150	1,016.15333	134.148	4.477	136,314.50	83,561,065	2,500	83,563,565	613.00
16844633	18,243.2601	5,058,086	1,016.150	1,016.15333	179.531	5.984	18,243.66	111,830,362	2,500	111,832,862	613.00
Total	461,167.8886	12,786,333	1,016.150	1,016.15333	453.8369	15.128	461,166.38	282,695,915	7,500	282,703,415	613.00

Total KE Generating Stations	4,250,088.1989	114,606,722	1,044.802	1,044.80213	4,067.8403	135.595	4,250,087.23	2,605,345,405	48,500	2,605,393,905	613.01
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MMMOOOOJ	-	-	1,016.1500	-	-	-	-	20,670	3,000	23,670	-
14240562	-	-	1,038.5800	-	-	-	-	20,670	2,000	22,670	-

Total	4,250,088.1989	114,606,722	1,044.802	1,044.80213	4,067.8403	135.59	4,250,087.2274	2,605,386,745	53,500	2,605,440,245	613.02
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GST @ 17% 442,924,847

SSGC Billed

3,048,365,087