

Ref. No. RA&SP/NEPRA/071/1373
Dated: November 27, 2015

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

Subject: **MONTHLY FUEL COST ADJUSTMENT (FCA) DUE TO VARIATION IN FUEL AND POWER PURCHASE PRICE FOR THE MONTH OF OCTOBER 2015**

Dear Sir

This is with reference to fuel cost adjustment based on units sent out for the month of October 2015, as per tariff determination of 23rd December 2009.

Required Monthly Adjustment:

The submission is based on actual power purchase invoice of NTDC for the month of October 2015, received on 26-Oct-2015. Further, the rates are subject to change after the issuance of pending tariff determinations. 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;

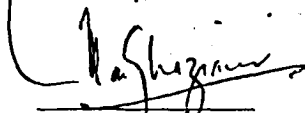
DESCRIPTION	October 2015 (Over Sep-15)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	23.288	1.475
Power Purchase Price Variation	828.636	52.470
Total Fuel Costs Adjustment	851.924	53.945

Registrar
By No. 1246
Dated: 30-11-15

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.

K Electric Limited (Formerly KESC Ltd.)**SUMMARY OF REQUIRED ADJUSTMENT ON ACCOUNT OF VARIATION IN COST OF FUEL AND POWER PURCHASES**

DESCRIPTION	Sep-15	Oct-15
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2 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS**I a. Monthly Variation In**

I Fuel Price	Mill Rs.	(403.421)	23.288
II Power Purchase Price - Fuel component	Mill Rs.	(919.301)	828.636
III Total Monthly Variation (I + II) - Over Reference Tariff	Mill Rs.	<u>(1,322.722)</u>	<u>851.924</u>

b. Units Sent Out	Mill kWh	1,520.582	1,579.255
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II a. Monthly Variation In FSA - due to

I Fuel Price	Ps/kWh	(26.531)	1.475
II Power Purchase Price - Fuel component	Ps/kWh	(60.457)	52.470
b. Monthly Increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	(86.988)	53.945

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Sep-15	Oct-15
1	<u>UNITS SENT OUT - KE</u>		
1a	<u>UNITS SENT OUT ON GAS</u>		
i	Bin Qasim	Mill kWh 202.811	194.354
ii	Bin Qasim II - CCPP	Mill kWh 325.066	339.939
iii	Korangi Gas 2	Mill kWh 47.713	43.916
iv	Site Gas 2	Mill kWh 27.665	25.948
v	Korangi combined *	Mill kWh 113.946	122.574
	Total	Mill kWh 717.202	726.731
1b	<u>UNITS SENT OUT ON F. OIL</u>		
i	Bin Qasim	Mill kWh 181.735	222.532
	Total	Mill kWh 181.735	222.532
1c	<u>TOTAL UNITS SENT OUT (1 + 2)</u>		
i	Bin Qasim	Mill kWh 384.546	416.886
ii	Bin Qasim II - CCPP	Mill kWh 325.066	339.939
iii	Korangi Gas 2	Mill kWh 47.713	43.916
iv	Site Gas 2	Mill kWh 27.665	25.948
v	Korangi combined	Mill kWh 113.946	122.574
	Total	Mill kWh 898.937	949.263
2	<u>HEAT RATE AT BUS BAR</u>		
2a	<u>Heat Rate of GAS - of item 1</u>		
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	<u>Conversion Factor</u>		
i	Bin Qasim	Kg/kWh 0.264	0.264
ii	Korangi Thermal	Kg/kWh 0.340	0.340
3	<u>FUEL PRICES</u>		
a.	Fuel Prices- Gas (Rs/MMBTu)	Rs/MMBTu 600.00	600.00
b.	Fuel Price -F.O (Rs/Kg)	Rs/Kg 30,085	29,807
4	<u>COST OF FUEL</u>		
4a	<u>COST OF GAS</u>		
i	Bin Qasim	Mill Rs 1,295.965	1,241.922
ii	Bin Qasim II - CCPP	Mill Rs 1,678.316	1,755.105
iii	Korangi Gas 2	Mill Rs 271.965	250.323
iv	Site Gas 2	Mill Rs 157.693	147.904
v	Korangi combined	Mill Rs 622.828	669.987
	Total	Mill Rs 4,026.768	4,065.242
4b	<u>COST OF FURNACE OIL</u>		
i	Bin Qasim	Mill Rs 1,443.432	1,751.143
	Total	Mill Rs 1,443.432	1,751.143

4c TOTAL COST OF FUEL

i Bin Qasim	Mill Rs	2,739.398	2,993.065
ii Bin Qasim II - CCPP	Mill Rs	1,678.316	1,755.105
iii Korangi Gas 2	Mill Rs	271.965	250.323
iv Site Gas 2	Mill Rs	157.693	147.904
v Korangi combined	Mill Rs	622.828	669.987
Total	Mill Rs	5,470.200	5,816.385

5 COST OF FUEL PER KWH

a Bin Qasim	Rs/kWh	7.124	7.180
b Bin Qasim II - CCPP	Rs/kWh	5.163	5.163
c Korangi Gas 2	Rs/kWh	5.700	5.700
d Site Gas 2	Rs/kWh	5.700	5.700
e Korangi combined	Rs/kWh	5.466	5.466

6 INCREASE/DECREASE IN COST OF FUEL PER KWH

a Bin Qasim	Rs/kWh	0.056
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	23.288
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	23.288

8 INCREASE / DECREASE IN TARIFF**TO BE PASSED IN THE MONTHLY BILLS**

a Fuel price variation	Mill Rs	23.288
b Units Sent Out - KE	Mill kWh	949.263
c Power Purchase	Mill kWh	629.993
d Total Units Sent Out (b + c)	Mill kWh	1,579.255
e Increase / Decrease in Tariff (8a / 8d x 100)		
To be passed on to the consumers - FSA	Ps/kWh	1.475

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Sep-15	Oct-15
1 POWER PURCHASES			
a	KANUPP Mill kWh	14.525	2.160
c	TAPAL Mill kWh	72.077	73.618
d	GUL AHMED Mill kWh	70.813	72.000
e	NTDC/WAPDA Mill kWh	452.531	468.881
f	ANOUD POWER Mill kWh	6.505	7.454
g	INT IND (IIL) Mill kWh	5.195	5.880
	TOTAL Mill kWh	621.646	629.993
2 COST OF POWER PURCHASE - FUEL COST			
a	KANUPP Mill Rs	92.669	13.761
c	TAPAL Mill Rs	480.797	475.570
d	GUL AHMED Mill Rs	502.822	476.597
e	NTDC/WAPDA Mill Rs	1,756.373	2,724.381
f	ANOUD POWER Mill Rs	39.256	45.113
g	INT IND (IIL) Mill Rs	30.266	34.365
	TOTAL Mill Rs	2,902.184	3,769.788
3 COST OF POWER PURCHASE- Fuel Cost/kWh			
a	KANUPP Rs/kWh	6.380	6.372
c	TAPAL Rs/kWh	6.671	6.460
d	GUL AHMED Rs/kWh	7.101	6.619
e	NTDC/WAPDA Rs/kWh	3.881	5.810
f	ANOUD POWER Rs/kWh	6.035	6.052
g	INT IND (IIL) Rs/kWh	5.826	5.844
	AVERAGE Rs/kWh	4.669	5.984
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	4.669	5.984
b	Reference Rate - Previous Month Rs/kWh	6.147	4.669
c	Increase / Decrease in Average Rate of Rs/kWh	(1.479)	1.315
d	Total Power Purchase Mill kWh	621.646	629.993
e	Increase / Decrease in Fuel Cost of Power Mill Rs	(919.301)	828.636
5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS			
a	Fuel price variation in cost of power purchase	(919.301)	828.636
b	Units Sent Out - KE Mill kWh	898.937	949.263
c	Power Purchase Mill kWh	621.646	629.993
d	Total Units Sent Out (b + c) Mill kWh	1,520.582	1,579.255
e	Increase / Decrease in Tariff (5a / 5d x 100)		
	To be passed on to the consumers - F Ps/kWh	(60.457)	52.470
6 INCREASE / DECREASE IN REVENUE			
a	Units Sold Mill kWh	1,292.495	1,342.367
b	Increase / Decrease in Tariff Ps/kWh	(60.457)	52.470
c	Increase / Decrease in Revenue Mill Rs	(781.406)	704.340
d	Accumulated increase / decrease in revenue Mill Rs	(1,583.758)	704.340

7 O&M PAYMENT

a	KANUPP	Mill Rs	14.017	2.084
c	TAPAL	Mill Rs	72.870	74.428
d	GUL AHMED	Mill Rs	41.794	42.494
e	NTDC/WAPDA	Mill Rs	804.625	818.885
f	ANOUD POWER	Mill Rs	11.063	11.274
g	INT IND (IIL)	Mill Rs	8.520	9.461
	TOTAL	Mill Rs	952.889	958.626

8 O&M PAYMENT (Rs/kWh)

a	KANUPP	Rs/kWh	0.965	0.965
c	TAPAL	Rs/kWh	1.011	1.011
d	GUL AHMED	Rs/kWh	0.590	0.590
e	NTDC/WAPDA	Rs/kWh	1.778	1.746
f	ANOUD POWER	Rs/kWh	1.701	1.513
g	INT IND (IIL)	Rs/kWh	1.640	1.609
	TOTAL	Rs/kWh	1.533	1.522
	Variation over Base Rate	Rs/kWh	(0.067)	(0.011)
	Variation over Base Rate	Mill Rs	(41.744)	(7.057)

9 CAPACITY PAYMENT

a	TAPAL	Mill Rs	136.575	165.575
b	GUL AHMED	Mill Rs	125.521	112.230
	TOTAL	Mill Rs	262.096	277.805

10 CAPACITY PAYMENT (Rs/ kWh)

a	TAPAL	Rs/kWh	1.895	2.249
b	GUL AHMED	Rs/kWh	1.773	1.559
	TOTAL	Rs/kWh	0.422	0.441
	Variation over Base Rate	Rs/kWh	0.019	0.019
	Variation over Base Rate	Mill Rs	11.989	12.190

11 TOTAL O&M & CAPACITY PAYMENT

a	KANUPP	Mill Rs	14.017	2.084
c	TAPAL	Mill Rs	209.445	240.003
d	GUL AHMED	Mill Rs	167.315	154.724
e	NTDC/WAPDA	Mill Rs	804.625	818.885
f	ANOUD POWER	Mill Rs	11.063	11.274
g	INT IND (IIL)	Mill Rs	8.520	9.461
	TOTAL	Mill Rs	1,214.985	1,236.432

12 TOTAL COST WITH O&M AND CAPACITY PAYMENT

a	KANUPP	Mill Rs	106.686	15.845
c	TAPAL	Mill Rs	690.243	715.573
d	GUL AHMED	Mill Rs	670.136	631.321
e	NTDC/WAPDA	Mill Rs	2,560.998	3,543.266
f	ANOUD POWER	Mill Rs	50.320	56.388
g	INT IND (IIL)	Mill Rs	38.786	43.826
	TOTAL	Mill Rs	4,117.169	5,006.219

13 COST OF POWER PURCHASE- TOTAL Cost/kWh

a	KANUPP	Rs/kWh	7.345	7.337
c	TAPAL	Rs/kWh	9.576	9.720
d	GUL AHMED	Rs/kWh	9.463	8.768
e	NTDC/WAPDA	Rs/kWh	5.659	7.557
f	ANOUD POWER	Rs/kWh	7.736	7.565
g	INT IND (IIL)	Rs/kWh	7.466	7.453
	AVERAGE	Rs/kWh	6.623	7.946

K-Electric Limited**Oct-15**

REVISED

PROVISIONAL

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

Meter (1)	440,465.9004	12,072,259	1,027.950	428.492	15,633.929	264,279,540	2,500	264,282,040	600.00
Meter (2)	426,126.6933	11,679,251	1,027.950	414.542	15,124.972	255,676,016	2,500	255,678,516	600.00
Meter (3)	436,469.7414	11,962,732	1,027.950	424.604	15,492.088	261,881,833	2,500	261,884,333	600.00
Meter (4)	211,038.1482	5,784,119	1,027.950	205.301	7,490.604	126,622,889	2,500	126,625,389	600.00
Meter (5)	242,715.9498	6,652,342	1,027.950	236.118	8,614.978	145,629,570	2,500	59,914,782	600.00
Meter (6)	441,816.7868	12,109,284	1,027.950	429.806	15,681.878	265,090,072	2,500	265,092,572	600.00
Total	2,198,633.2199	60,259,987	1,027.9500	2,138.86	78,038.449	1,319,179,920	15,000	1,319,194,920	600.00

BIN QASIM COMBINED CYCLE POWER PLANT

Meter (7)	544,489.2214	14,923,323	1,027.950	529.687	19,326.141	326,693,533	2,500	326,696,033	600.00
Meter (8)	559,367.9804	15,331,119	1,027.950	544.161	19,854.248	335,620,788	2,500	335,623,288	600.00
Meter (9)	577,795.0554	15,836,167	1,027.950	562.087	20,508.300	346,677,033	2,500	346,679,533	600.00
Meter (10)	587,547.9258	16,103,473	1,027.950	571.575	20,854.469	352,528,755	2,500	352,531,255	600.00
Meter (11)	616,777.6404	16,904,599	1,027.950	600.010	21,891.951	370,066,584	2,500	370,069,084	600.00
Total	2,885,977.8234	79,098,681	1,027.950	2,807.5212	102,435.110	1,731,586,693	12,500	1,731,599,193	600.00

KORANGI TOWN GAS TURBINE-II

Meter 00095	129,731.1693	3,780,490	966.810	134.184	4,604.652	77,838,702	2,500	77,841,202	600.00
Meter 00000	299,488.3793	8,727,377	966.810	309.769	10,629.981	179,693,028	3,000	179,696,028	600.00
Meter 00064	337.1544	9,825	966.810	0.349	11.967	202,293	2,500	204,793	600.00
Meter 261420									
Total	429,556.70300	12,517,692	966.810	444.302	15,246.600	257,734,023	8,000	257,742,023	600.00

SITE GAS TURBINE-II

Meter - 1	140,259.5784	4,045,615	976.770	143.595	4,978.339	84,155,747	3,000	84,158,747	600.00
Meter - 2	113,125.6773	3,262,971	976.770	115.816	4,015.255	67,875,406	2,500	67,877,906	600.00
Total	253,385.2557	7,308,586	976.770	259.4103	8,993.594	152,031,153	5,500	152,036,653	600.00

KORANGI COMBINED CYCLE POWER PLANT

(Meter 1)	440,403.0595	12,260,682	1,012.000	435.180	15,631.575	264,241,836	2,500	264,244,336	600.00
(Meter 2)	428,699.2269	11,934,851	1,012.000	423.614	15,216.162	257,219,536	2,500	257,222,036	600.00
Meter 3	180,834.5581	5,034,393	1,012.000	178.690	6,418.525	108,500,735	2,500	108,503,235	600.00
Total	1,049,936.8445	29,229,926	1,012.000	1,037.4843	37,266.262	629,962,107	7,500	629,969,607	600.00

Total	6,817,489.8465	188,414,872	1,019.428	6,687.5799	241,980.0141	4,090,493,896	48,500	4,090,542,396	600.00
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INVOICES

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Grand Total (BYCO)	
BYCO	02-Oct-15	500115979	2,993.744	84,951,198.00	16,990,240	101,941,438	
BYCO	04-Oct-15	500115988	1,099.191	31,190,908.00	6,238,182	37,429,089	
			4,093	116,142,106	23,228,422	139,370,527	

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Total Financial charges (PSO)	Grand Total (PSO)
PSO	02-Oct-15	964319419	1,482.00	42,305,869.00	8,461,174	210,091	50,977,135
PSO	03-Oct-15	964319420	1,481.00	42,262,089.00	8,452,418	209,874	50,924,381
PSO	04-Oct-15	964319422	982.00	28,031,360.00	5,606,272	139,204	33,776,836
PSO	06-Oct-15	964325011	1,484.00	42,356,756.00	8,471,351	210,344	51,038,452
PSO	07-Oct-15	964329097	1,485.00	42,381,957.00	8,476,391	210,469	51,068,818
PSO	08-Oct-15	964332535	2,480.00	70,784,708.00	14,156,942	351,518	85,293,168
PSO	09-Oct-15	964335941	2,481.00	70,810,194.00	14,162,039	351,644	85,323,878
PSO	10-Oct-15	964339297	2,484.00	70,881,345.00	14,176,269	351,998	85,409,611
PSO	11-Oct-15	964339298	1,971.00	56,254,566.00	11,250,913	279,361	67,784,840
PSO	12-Oct-15	964343426	2,375.00	67,776,079.00	13,555,216	336,577	81,667,871
PSO	13-Oct-15	964346590	117.00	3,336,897.00	667,379	16,571	4,020,847
PSO	13-Oct-15	964346651	1,984.00	56,609,689.00	11,321,938	281,124	68,212,752
PSO	16-Oct-15	964362010	2,486.00	78,771,465.00	15,754,293	389,630	94,915,388
PSO	17-Oct-15	964362011	2,982.00	94,454,807.00	18,890,961	467,205	113,812,974
PSO	18-Oct-15	964362012	3,980.00	126,088,618.00	25,217,724	623,677	151,930,018
PSO	19-Oct-15	964363752	1,278.00	40,483,809.00	8,096,762	200,247	48,780,817
PSO	20-Oct-15	964367831	1,981.00	62,764,701.00	12,552,940	310,455	75,628,097
PSO	20-Oct-15	964365917	1,702.00	53,916,509.00	10,783,302	266,689	64,966,500
PSO	21-Oct-15	964371034	2,471.00	78,275,704.00	15,655,141	387,178	94,318,023
PSO	22-Oct-15	964380976	1,983.00	62,832,908.00	12,566,582	310,793	75,710,283
PSO	23-Oct-15	964380978	1,975.00	62,563,438.00	12,512,688	309,460	75,385,586
PSO	24-Oct-15	964380981	1,986.00	62,915,244.00	12,583,049	311,200	75,809,493
PSO	25-Oct-15	964380982	1,478.00	46,824,782.00	9,364,956	231,611	56,421,350
PSO	28-Oct-15	964393421	3,479.00	110,227,487.00	22,045,497	545,222	132,818,207
PSO	29-Oct-15	964395984	1,985.00	62,888,950.00	12,577,790	311,070	75,777,810
PSO	30-Oct-15	964400201	2,484.00	78,706,679.00	15,741,336	389,310	94,837,325
PSO	31-Oct-15	964403149	2,474.00	78,373,279.00	15,674,656	387,661	94,435,595
PSO	15-Oct-15	964350394	2,284.00	65,196,662.00	13,039,332	323,767	78,559,762
PSO	16-Oct-15	964353493	2,977.00	84,967,747.00	18,863,197	466,519	104,297,463
			60,791	1,844,044,298	370,678,508	9,180,469	2,223,903,280

PSO & BYCO

	Mton	PKR
Opening as at F Oil	13,593	394,314,135
Purchases F Oil	64,885	1,960,186,405

Date	Quantity	Amount
16.10.2015	(9,540)	(273,668,226)
16.10.2015	(8,802)	(252,502,007)
16.10.2015	(5,362)	(153,813,047)
16.10.2015	(1,428)	(40,953,986)
16.10.2015	(4,409)	(126,492,412)
31.10.2015	(8,584)	(264,336,018)
31.10.2015	(7,077)	(217,947,236)
31.10.2015	(7,324)	(225,528,061)
31.10.2015	(3,542)	(109,067,543)
31.10.2015	(6,962)	(214,403,339)

Consumption F Oil	(63,028)	(1,878,711,875)
Closing as at F Oil	15,450	475,788,665