

Ref. No. RA&SP/NEPRA/071/1367
Dated: October 19, 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 SEPTEMBER 2015**

Dear Sir

This is with reference to fuel cost adjustment based on units sent out for the month of September 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 September-15, received on 16-10-2015. Further, the rates are subject to change after the issuance of pending tariff determinations. The Gas price is being accounted for as per the latest notification by OGRA dated 31st August, 2015. 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.

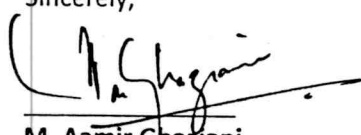
The summarized position is as under;

DESCRIPTION	September 2015 (Over Jun-15)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	(403.421)	(26.531)
Power Purchase Price Variation	(919.301)	(60.457)
Total Fuel Costs Adjustment	(1,322.722)	(86.988)

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.

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

DESCRIPTION		Jun-15	Sep-15
2 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS			
I a. Monthly Variation in			
i Fuel Price	Mill Rs.	346.716	(403.421)
ii Power Purchase Price - Fuel component	Mill Rs.	(294.795)	(919.301)
iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs.	51.921	(1,322.722)
b. Units Sent Out	Mill kWh	1,651.616	1,520.582
II a Monthly Variation in FSA - due to			
i Fuel Price	Ps/kWh	20.993	(26.531)
ii Power Purchase Price - Fuel component	Ps/kWh	(17.849)	(60.457)
b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh	3.144	(86.988)

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Jun-15	Sep-15
1 UNITS SENT OUT - KE			
1a UNITS SENT OUT ON GAS			
i Bin Qasim	Mill kWh	171.570	202.811
ii Bin Qasim II - CCPP	Mill kWh	319.550	325.066
iii Korangi Gas 2	Mill kWh	46.554	47.713
iv Site Gas 2	Mill kWh	21.685	27.665
v Korangi combined *	Mill kWh	112.080	113.946
Total (i to viii)	Mill kWh	671.439	717.202
1b UNITS SENT OUT ON F. OIL			
i Bin Qasim	Mill kWh	328.273	181.735
Total	Mill kWh	328.273	181.735
1c TOTAL UNITS SENT OUT (1 + 2)			
i Bin Qasim	Mill kWh	499.843	384.546
ii Bin Qasim II - CCPP	Mill kWh	319.550	325.066
iii Korangi Gas 2	Mill kWh	46.554	47.713
iv Site Gas 2	Mill kWh	21.685	27.665
v Korangi combined	Mill kWh	112.080	113.946
Total (i to vii)	Mill kWh	999.712	898.937
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	488.23	600.00
b. Fuel Price -F.O (Rs/Kg)	Rs/Kg	44,473	30,085
4 COST OF FUEL			
4a COST OF GAS			
i Bin Qasim	Mill Rs	892.101	1,295.965
ii Bin Qasim II - CCPP	Mill Rs	1,342.500	1,678.316
iii Korangi Gas 2	Mill Rs	215.927	271.965
iv Site Gas 2	Mill Rs	100.577	157.693
v Korangi combined	Mill Rs	498.508	622.828
Total (i to vii)	Mill Rs	3,049.613	4,026.768
4b COST OF FURNACE OIL			
i Bin Qasim	Mill Rs	3,854.240	1,443.432
Total	Mill Rs	3,854.240	1,443.432

4c TOTAL COST OF FUEL

i Bin Qasim	Mill Rs	4,746.342	2,739.398
ii Bin Qasim II - CCPP	Mill Rs	1,342.500	1,678.316
iii Korangi Gas 2	Mill Rs	215.927	271.965
iv Site Gas 2	Mill Rs	100.577	157.693
v Korangi combined	Mill Rs	498.508	622.828
Total	Mill Rs	6,903.854	5,470.200

5 COST OF FUEL PER KWH

a Bin Qasim	Rs/kWh	9.496	7.124
b Bin Qasim II - CCPP	Rs/kWh	4.201	5.163
c Korangi Gas 2	Rs/kWh	4.638	5.700
d Site Gas 2	Rs/kWh	4.638	5.700
e Korangi combined	Rs/kWh	4.448	5.466

6 INCREASE/DECREASE IN COST OF FUEL PER KWH

a Bin Qasim	Rs/kWh	(2.372)
b Bin Qasim II - CCPP	Rs/kWh	0.962
c Korangi Gas 2	Rs/kWh	1.062
d Site Gas 2	Rs/kWh	1.062
e Korangi combined	Rs/kWh	1.018

7 INCREASE / DECREASE IN FUEL COST OVER PREVIOUS MONTH

a Bin Qasim	Mill Rs	(912.124)
b Bin Qasim II - CCPP	Mill Rs	312.642
c Korangi Gas 2	Mill Rs	50.663
d Site Gas 2	Mill Rs	29.376
e Korangi combined	Mill Rs	116.022
Total (a to g)	Mill Rs	(403.421)

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

a Fuel price variation (item 7-h)	Mill Rs	(403.421)
b Units Sent Out - KE	Mill kWh	898.937
c Power Purchase	Mill kWh	621.646
d Total Units Sent Out (b + c)	Mill kWh	1,520.582
e Increase / Decrease in Tariff (8a / 8d x 100)		
To be passed on to the consumers - FSA	Ps/kWh	(26.531)

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Jun-15	Sep-15
1 POWER PURCHASES			
a	KANUPP Mill kWh	17.611	14.525
b	PASMIC Mill kWh	0.808	-
c	TAPAL Mill kWh	83.114	72.077
d	GUL AHMED Mill kWh	77.602	70.813
e	NTDC/WAPDA Mill kWh	458.789	452.531
f	ANOUD POWER Mill kWh	6.629	6.505
g	INT IND (IIL) Mill kWh	7.351	5.195
	TOTAL Mill kWh	651.904	621.646
2 COST OF POWER PURCHASE - FUEL COST			
a	KANUPP Mill Rs	127.643	92.669
b	PASMIC Mill Rs	5.856	-
c	TAPAL Mill Rs	841.274	480.797
d	GUL AHMED Mill Rs	811.797	502.822
e	NTDC/WAPDA Mill Rs	2,124.606	1,756.373
f	ANOUD POWER Mill Rs	55.197	39.256
g	INT IND (IIL) Mill Rs	41.120	30.266
	TOTAL Mill Rs	4,007.492	2,902.184
3 COST OF POWER PURCHASE- Fuel Cost/kWh			
a	KANUPP Rs/kWh	7.248	6.380
b	PASMIC Rs/kWh	7.248	-
c	TAPAL Rs/kWh	10.122	6.671
d	GUL AHMED Rs/kWh	10.461	7.101
e	NTDC/WAPDA Rs/kWh	4.631	3.881
f	ANOUD POWER Rs/kWh	8.326	6.035
g	INT IND (IIL) Rs/kWh	5.594	5.826
	AVERAGE Rs/kWh	6.147	4.669
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	6.147	4.669
b	Reference Rate - Previous Month Rs/kWh	6.600	6.147
c	Increase / Decrease in Average Rate of Rs/kWh	(0.452)	(1.479)
d	Total Power Purchase (Item 1m) Mill kWh	651.904	621.646
e	Increase / Decrease in Fuel Cost of Power Mill Rs	(294.795)	(919.301)
5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS			
a	Fuel price variation in cost of power purchase (Item 5e) Ps/kWh	(294.795)	(919.301)
b	Units Sent Out - KE Mill kWh	999.712	898.937
c	Power Purchase Mill kWh	651.904	621.646
d	Total Units Sent Out (b + c) Mill kWh	1,651.616	1,520.582
e	Increase / Decrease in Tariff (5a / 5d x 100)		
	To be passed on to the consumers - Ps/kWh	(17.849)	(60.457)
6 INCREASE / DECREASE IN REVENUE			
a	Units Sold Mill kWh	1,403.873	1,292.495
b	Increase / Decrease in Tariff (item 5e) Ps/kWh	(17.849)	(60.457)
c	Increase / Decrease in Revenue (6a / Mill Rs	(250.576)	(781.406)

7 O&M PAYMENT

a	KANUPP	Mill Rs	16.995	14.017
b	PASMIC	Mill Rs	1.752	-
c	TAPAL	Mill Rs	84.352	72.870
d	GUL AHMED	Mill Rs	45.195	41.794
e	NTDC/WAPDA	Mill Rs	768.483	700.168
f	ANOUD POWER	Mill Rs	11.091	11.063
g	INT IND (IIL)	Mill Rs	11.689	8.520
	TOTAL	Mill Rs	939.558	848.432

8 O&M PAYMENT (Rs/kWh)

a	KANUPP	Rs/kWh	0.965	0.965
b	PASMIC	Rs/kWh	2.169	#DIV/0!
c	TAPAL	Rs/kWh	1.015	1.011
d	GUL AHMED	Rs/kWh	0.582	0.590
e	NTDC/WAPDA	Rs/kWh	1.675	1.547
f	ANOUD POWER	Rs/kWh	1.673	1.701
g	INT IND (IIL)	Rs/kWh	1.590	1.640
	TOTAL	Rs/kWh	1.441	1.365
	Variation over Base Rate	Rs/kWh	(0.410)	(0.076)
	Variation over Base Rate (8a*1m)	Mill Rs	(267.414)	(47.517)

9 CAPACITY PAYMENT

a	TAPAL	Mill Rs	136.571	136.575
b	GUL AHMED	Mill Rs	125.710	125.521
	TOTAL	Mill Rs	262.281	262.096

10 CAPACITY PAYMENT (Rs/ kWh)

a	TAPAL	Rs/kWh	1.643	1.895
b	GUL AHMED	Rs/kWh	1.620	1.773
	TOTAL	Rs/kWh	0.402	0.422
	Variation over Base Rate	Rs/kWh	(0.019)	0.019
	Variation over Base Rate (10n*1m)	Mill Rs	(12.117)	11.989

11 TOTAL O&M & CAPACITY PAYMENT

a	KANUPP	Mill Rs	16.995	14.017
b	PASMIC	Mill Rs	1.752	-
c	TAPAL	Mill Rs	220.923	209.445
d	GUL AHMED	Mill Rs	170.906	167.315
e	NTDC/WAPDA	Mill Rs	768.483	700.168
f	ANOUD POWER	Mill Rs	11.091	11.063
g	INT IND (IIL)	Mill Rs	11.689	8.520
	TOTAL	Mill Rs	1,201.839	1,110.528

12 TOTAL COST WITH O&M AND CAPACITY PAYMENT

a	KANUPP	Mill Rs	144.638	106.686
b	PASMIC	Mill Rs	7.608	-
c	TAPAL	Mill Rs	1,062.197	690.243
d	GUL AHMED	Mill Rs	982.702	670.136
e	NTDC/WAPDA	Mill Rs	2,893.089	2,456.541
f	ANOUD POWER	Mill Rs	66.288	50.320
g	INT IND (IIL)	Mill Rs	52.810	38.786
	TOTAL	Mill Rs	5,209.332	4,012.712

13 COST OF POWER PURCHASE- TOTAL Cost/kWh

a	KANUPP	Rs/kWh	8.213	7.345
b	PASMIC	Rs/kWh	9.417	-
c	TAPAL	Rs/kWh	12.780	9.576
d	GUL AHMED	Rs/kWh	12.663	9.463
e	NTDC/WAPDA	Rs/kWh	6.306	5.428
f	ANOUD POWER	Rs/kWh	9.999	7.736
g	INT IND (IIL)	Rs/kWh	7.184	7.466
	AVERAGE	Rs/kWh	7.991	6.455

K-Electric Limited

WORKING OF COST OF FUEL
PER UNIT SENT OUT (Prov.)

DESCRIPTION	SEP 2015 Actual
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UNITS SENT OUT - KE (Million kWh)

KTGTPS - II	47.713244
SGTPS - II	27.665400
BQPS - I	371.797470
BQPS - II	325.066000
KCCPP	113.945867
	886.187981

TOTAL COST OF FUEL (Million Rs.)

KTGTPS - II	279.977124
SGTPS - II	161.591606
BQPS - I	2,979.394839
BQPS - II	1,650.327936
KCCPP	582.513199
Total cost excluding GST	5,653.804704

COST PER UNIT SENTOUT (Ps./kWh)

KTGTPS - II	586.791
SGTPS - II	584.093
BQPS - I	801.349
BQPS - II	507.690
KCCPP	511.219

Total variable Cost / Unit sentout (KE)	637.99158
Fixed cost for KANUPP (Provisional)	96.50200
Total Cost per Unit/sentout	734.49358

K-Electric Limited

Sep-15

Description	MMBTU (As per Bills)	Cubic Meters	GCV AS PER BILLS	GCV AS PER BTU's ON BILLS	MMCF	MMCFD	Amount excluding Meter rent	Meter Rent	Rs./ MMBTU
BIN QASIM POWER STATION-I									
Bin Qasim Power Station (1)	445,153.6888	11,620,067	1,079.310	1,079.31333	412.442	13.748	267,092,213	2,500	600.00
Bin Qasim Power Station (2)	452,757.8047	11,818,561	1,079.310	1,079.31333	419.487	13.983	271,654,683	2,500	600.00
Bin Qasim Power Station (3)	451,938.9871	11,797,187	1,079.310	1,079.31333	418.728	13.958	271,163,392	2,500	600.00
Bin Qasim Power Station (4)	34,894.6763	910,873	1,079.310	1,079.31334	32.330	1.078	20,936,806	2,500	600.00
Bin Qasim Power Station (5)	456,013.0393	11,903,534	1,079.310	1,079.31333	422.503	14.083	273,607,824	2,500	600.00
Bin Qasim Power Station (6)	484,560.0558	12,126,641	1,079.310	1,079.31333	430.422	14.347	278,736,033	2,500	600.00
Total	2,305,318.2520	60,176,863	1,079.310	1,079.31333	2,135.91	71.20	1,383,190,951	15,000	600.00

BIN QASIM COMBINED CYCLE POWER PLANT-II

Bin Qasim Power Station (7)	522,766.4382	13,646,031	1,079.310	1,079.31333	484.351	16.145	313,659,863	2,500	600.00
Bin Qasim Power Station (8)	529,981.0660	13,834,358	1,079.310	1,079.31333	491.035	16.368	317,988,640	2,500	600.00
Bin Qasim Power Station (9)	540,597.8820	14,111,494	1,079.310	1,079.31333	500.872	16.896	324,358,729	2,500	600.00
Bin Qasim Power Station (10)	563,682.4155	14,714,081	1,079.310	1,079.31333	522.260	17.409	338,209,449	2,500	600.00
Bin Qasim Power Station (11)	593,497.9251	15,492,370	1,079.310	1,079.31333	549.885	18.329	356,098,755	2,500	600.00
Total	2,750,525.7268	71,798,334	1,079.310	1,079.31333	2,548.40	84.947	1,650,315,436	12,500	600.00

KORANGI TOWN GAS TURBINE-II

Korangi Town Gas Turbine 00095	138,674.9221	4,045,246	965.830	965.82667	143.582	4.786	83,204,953	3,000	600.00
Korangi Town Gas Turbine 10000	327,878.7815	9,564,457	965.830	965.82667	339.480	11.316	196,727,269	2,500	600.00
Korangi Town Gas Turbine 00064	-	-	965.830	-	-	-	20,232	2,500	-
Korangi Town Gas Turbine 261420	-	-	966.530	-	-	-	14,837	1,833	-
Total	466,553.70360	13,609,703	965.827	965.82667	483.062	16.102	279,967,291	9,833	600.08

SITE GAS TURBINE-II

Site Gas Turbine	149,399.3932	4,336,475	970.640	970.64000	153.918	5.131	89,639,636	3,000	600.00
Site Gas Turbine - 2	119,910.7837	3,480,537	970.640	970.64000	123.538	4.118	71,946,470	2,500	600.00
Total	269,310.1769	7,817,012	970.640	970.64000	277.4563	9.249	161,586,106	5,500	600.00

KORANGI COMBINED CYCLE POWER PLANT

(KTPS 1)	486,218.2210	13,510,883	1,013.900	1,013.89667	479.554	15.985	291,730,933	2,500	600.00
(KTPS 2)	484,628.7774	13,466,716	1,013.900	1,013.89667	477.986	15.933	290,777,266	2,500	600.00
Total	970,846.9984	26,977,599	1,013.897	1,013.89667	957.5404	31.918	582,508,199	5,000	600.00

Total KE Generating Stations	6,762,554.8577	180,379,511	1,056.25747	1,056.25747	6,402.3735	213.4125	4,057,567,983	47,833	600
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Korangi thermal Power Station	-	-	1,013.900	-	-	-	20,232	3,000	-
KESC West Wharf Grid Station	-	-	970.64	-	-	-	20,232	2,000	-

With KTPS & 'W>>>>>
GST @ 17%

4,057,608,447
689,793,436

52,833

