



Ref. No. RA&SP/NEPRA/071/1429
Dated: May 24, 2016

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

24/05/16
National Electric Power Regulatory Authority
Markazi Avenue (East), G-5/1, Islamabad

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

Dear Sir

This is with reference to fuel cost adjustment request for the month of April 2016, submitted vide our letter ref: Ref. No. RA&SP/NEPRA/071/1428 dated May 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 April 2016, received on 23rd May 2016. Therefore, we have revised our fuel cost adjustment petition for the month of April 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	April 2016 (Over Mar-16)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	175.807	12.252
Power Purchase Price Variation	(403.540)	(28.124)
Total Fuel Costs Adjustment	(227.733)	(15.872)

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 May 19, 2016.

Sincerely,

M. Aamir Ghaziani
Director (Finance & Regulations)

Encl.

DESCRIPTION		Mar-16	Apr-16
MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS			
I	a. Monthly Variation in		
	i Fuel Price	Mill Rs. (420.314)	175.807
	ii Power Purchase Price - Fuel component	Mill Rs. 257.233	(403.540)
	iii Total Monthly Variation (i + ii) - Over Reference Tariff	Mill Rs. (163.081)	(227.733)
	b. Units Sent Out	Mill kWh 1,335.969	1,434.875
II	a Monthly Variation in FSA - due to		
	i Fuel Price	Ps/kWh (31.461)	12.252
	ii Power Purchase Price - Fuel component	Ps/kWh 19.254	(28.124)
	b Monthly increase/decrease to be passed to Consumers (i+ii)	Ps/kWh (12.207)	(15.872)

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-16	Apr-16
1 UNITS SENT OUT - KE			
1a UNITS SENT OUT ON GAS			
i Bin Qasim	Mill kWh	77.406	57.352
ii Bin Qasim II - CCPP	Mill kWh	210.290	338.780
iii Korangi Gas 2	Mill kWh	53.826	39.148
iv Site Gas 2	Mill kWh	55.788	56.306
v Korangi combined *	Mill kWh	127.864	132.992
Total	Mill kWh	525.175	624.579
1b UNITS SENT OUT ON F. OIL			
i Bin Qasim	Mill kWh	220.916	241.596
Total	Mill kWh	220.916	241.596
1c TOTAL UNITS SENT OUT (1 + 2)			
i Bin Qasim	Mill kWh	298.322	298.947
ii Bin Qasim II - CCPP	Mill kWh	210.290	338.780
iii Korangi Gas 2	Mill kWh	53.826	39.148
iv Site Gas 2	Mill kWh	55.788	56.306
v Korangi combined	Mill kWh	127.864	132.992
Total	Mill kWh	746.091	866.174
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	21,386
4 COST OF FUEL			
4a COST OF GAS			
i Bin Qasim	Mill Rs	494.625	374.418
ii Bin Qasim II - CCPP	Mill Rs	1,085.727	1,787.019
iii Korangi Gas 2	Mill Rs	306.810	227.981
iv Site Gas 2	Mill Rs	317.992	327.900
v Korangi combined	Mill Rs	698.907	742.686
Total	Mill Rs	2,904.061	3,460.004
4b COST OF FURNACE OIL			
i Bin Qasim	Mill Rs	1,130.067	1,364.051
Total	Mill Rs	1,130.067	1,364.051
4c TOTAL COST OF FUEL			
i Bin Qasim	Mill Rs	1,624.693	1,738.469
ii Bin Qasim II - CCPP	Mill Rs	1,085.727	1,787.019
iii Korangi Gas 2	Mill Rs	306.810	227.981
iv Site Gas 2	Mill Rs	317.992	327.900
v Korangi combined	Mill Rs	698.907	742.686
Total	Mill Rs	4,034.128	4,824.054

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-16	Apr-16
5	<u>COST OF FUEL PER KWH</u>		
a	Bin Qasim Rs/kWh	5.446	5.815
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/OECREASE IN COST OF FUEL PER KWH</u>		
a	Bin Qasim Rs/kWh	(1.409)	0.369
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 / OECREASE IN FUEL COST OVER PREVIOUS MONTH</u>		
a	Bin Qasim Mill Rs	(420.314)	110.371
b	Bin Qasim II - CCPP Mill Rs	-	37.898
c	Korangi Gas 2 Mill Rs	-	4.835
d	Site Gas 2 Mill Rs	-	6.954
e	Korangi combined Mill Rs	-	15.750
	Total Mill Rs	(420.314)	175.807
8	<u>INCREASE / OECREASE IN TARIFF</u>		
	<u>TO BE PASSED IN THE MONTHLY BILLS</u>		
a	Fuel price variation Mill Rs	(420.314)	175.807
b	Units Sent Out - KE Mill kWh	746.091	866.174
c	Power Purchase Mill kWh	589.878	568.701
d	Total Units Sent Out (b + c) Mill kWh	1,335.969	1,434.875
e	Increase / Decrease in Tariff		
	To be passed on to the consumers - FSA Ps/kWh	(31.461)	12.252

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Mar-16	Apr-16
1 POWER PURCHASES			
a	KANUPP Mill kWh	27.971	45.547
b	TAPAL Mill kWh	81.901	76.909
c	GUL AHMED Mill kWh	65.275	66.235
d	NTDC/WAPDA Mill kWh	403.385	369.492
e	ANOUD POWER Mill kWh	4.939	4.981
f	INT IND (IIL) Mill kWh	6.407	5.535
	TOTAL Mill kWh	589.878	568.701
2 COST OF POWER PURCHASE - FUEL COST			
a	KANUPP Mill Rs	158.314	258.523
b	TAPAL Mill Rs	342.902	361.109
c	GUL AHMED Mill Rs	283.700	318.451
d	NTDC/WAPDA Mill Rs	2,122.289	1,462.011
e	ANOUD POWER Mill Rs	22.771	24.898
f	INT IND (IIL) Mill Rs	37.372	32.284
	TOTAL Mill Rs	2,967.348	2,457.276
3 COST OF POWER PURCHASE- Fuel Cost/kWh			
a	KANUPP Rs/kWh	5.660	5.676
b	TAPAL Rs/kWh	4.187	4.695
c	GUL AHMED Rs/kWh	4.346	4.808
d	NTDC/WAPDA Rs/kWh	5.261	3.957
e	ANOUD POWER Rs/kWh	4.610	4.998
f	INT IND (IIL) Rs/kWh	5.833	5.832
	AVERAGE Rs/kWh	5.030	4.321
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	4.321
b	Reference Rate - Previous Month Rs/kWh	4.594	5.030
c	Increase / Decrease in Avg. Rate Rs/kWh	0.436	(0.710)
d	Total Power Purchase Mill kWh	589.878	568.701
e	Increase / Decrease in Fuel Cost Mill Rs	257.233	(403.540)
5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS			
a	Fuel price variation in cost of power purchase	257.233	(403.540)
b	Units Sent Out - KE Mill kWh	746.091	866.174
c	Power Purchase Mill kWh	589.878	568.701
d	Total Units Sent Out (b + c) Mill kWh	1,335.969	1,434.875
e	Increase / Decrease in Tariff to be passed on to the consumers - FSA Ps/kWh	19.254	(28.124)

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
BIN QASIM												
18143200	-	-	1,042.690	-	-	-	-	-	20,670	2,500	23,170	-
M2122941	-	-	1,042.690	-	-	-	-	-	20,670	2,500	23,170	-
M12169664	331,259.8319	8,950,757	1,042.690	1,042.690	317.697	18.590	21,757.706	331,259.83	203,062,277	2,500	203,064,777	613.00
18143201	322,024.5338	8,701,216	1,042.690	1,042.690	308.840	10.295	11,429.909	322,024.53	197,401,039	2,500	197,403,539	613.00
M2121940	-	-	1,042.690	-	-	-	-	-	20,670	2,500	23,170	-
18143197	-	-	1,042.690	-	-	-	-	-	20,670	2,500	23,170	-
Total	653,284.3657	17,651,973	1,042.6900	1,042.690	626.54	20.88	23,187.614	653,284.3657	400,545,996	15,000	400,560,996	613.13
BIN QASIM COMBINED CYCLE POWER PLANT												
16128821	538,031.1636	14,537,791	1,042.690	1,042.690	516.003	17.200	19,096.828	538,031.16	329,813,103	2,500	329,815,603	613.00
M16647823	554,229.0285	14,975,463	1,042.690	1,042.690	531.538	17.718	19,671.753	554,229.03	339,742,394	2,500	339,744,894	613.00
M16647821	571,100.9780	15,431,349	1,042.690	1,042.690	547.719	18.257	20,270.605	571,100.98	350,084,900	2,500	350,087,400	613.00
M16647825	576,016.2361	15,564,161	1,042.690	1,042.690	552.433	18.414	20,445.066	576,016.24	353,097,953	2,500	353,100,453	613.00
16647822	613,281.2217	16,571,074	1,042.690	1,042.690	588.172	19.606	21,767.746	613,281.22	375,941,389	2,500	375,943,889	613.00
Total	2,852,658.6279	77,079,838	1,042.690	1,042.690	2,735.8646	91.195	101,251.999	2,852,658.63	1,748,679,739	12,500	1,748,692,239	613.00
KORANGI TOWN GAS TURBINE-II												
16128823	255,849.5510	7,273,339	991.050	991.053	258.159	8.605	9,081.070	255,848.69	156,835,775	3,000	156,838,775	613.00
15300069	214,808.3044	3,263,792	991.050	992.053	115.845	3.861	4,074.982	114,807.92	70,377,491	2,500	70,379,991	613.00
16844632	-	-	991.050	-	-	-	-	-	20,670	2,500	23,170	-
Total	370,657.8554	10,537,131	991.050	991.053	374.004	12.467	13,156.051	370,656.61	227,233,936	8,000	227,241,936	613.06
SITE GAS TURBINE-II												
16392828	306,062.3006	8,567,181	1,006.510	1,006.510	304.083	10.136	10,863.347	306,062.30	187,616,190	3,000	187,619,190	613.00
16392831	245,536.9818	6,872,979	1,006.510	1,006.510	243.949	8.132	8,715.067	245,536.98	150,514,170	2,500	150,516,670	613.00
Total	551,599.2824	15,440,160	1,006.510	1,006.510	548.0316	18.268	19,578.413	551,599.28	338,130,360	5,500	338,135,860	613.00
KORANGI COMBINED CYCLE POWER PLANT												
18143203	380,586.6000	10,598,726	1,011.690	1,011.687	376.190	12.540	13,508.550	380,587.85	233,299,586	2,500	233,302,086	613.00
13403410	372,146.8318	10,363,692	1,011.690	1,011.687	367.848	12.262	13,208.988	372,148.06	228,126,008	2,500	228,128,508	613.00
16844633	344,021.5845	9,500,449	1,011.690	1,011.687	340.048	12.335	12,210.710	344,022.72	210,885,231	2,500	210,887,731	613.00
Total	1,096,755.0163	30,542,867	1,011.690	1,011.687	1,084.0857	36.136	38,928.248	1,096,758.63	672,310,825	7,500	672,318,325	613.00
Total KE Generating Stations	5,524,955.1477	152,251,969	1,029.139	1,029.139	5,368.5233	178.951	196,102.326	5,524,957.51	3,386,900,856	48,500	3,386,949,356	613.02
MMM00001	-	-	1,010.390	-	-	-	-	-	20,670	3,000	23,670	-
14240562	-	-	1,010.390	-	-	-	-	-	20,670	2,000	22,670	-
Total	5,524,955.1477	151,251,969	1,029.139	1,829.139	5,368.5233	178.95	196,102.3259	5,524,957.5137	3,386,942,196	53,500	3,386,995,696	613.03

SSGC Billed

GST @ 17%

575,789,268
3,962,784,964

INVOICES

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Grand Total (BYCO)
BYCO	26-Apr-16	800135917	479.580	10,614,471.00	2,122,894	12,838,262
BYCO	27-Apr-16	800136070	986.292	21,874,828.00	4,374,926	26,459,546
BYCO	28-Apr-16	800136307	486.212	10,761,705.00	2,152,341	13,017,356
BYCO	29-Apr-16	800136422	487.218	10,783,971.00	2,156,794	13,044,299
BYCO						
BYCO						
BYCO						
				2,441,358	484,034,775	10,806,958

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Total Financial charges (PSO)	Grand Total (PSO)
PSO	1-Apr-16	864820584	1,679.00	42,636,467.00			
PSO	2-Apr-16	864820585	1,679.00	42,653,943.00			
PSO	3-Apr-16	864820586	2,460.00	53,426,417.00			
PSO	4-Apr-16	864823483	2,482.00	53,489,376.00			
PSO	5-Apr-16	864828238	2,483.00	53,493,427.00			
PSO	6-Apr-16	864829509	1,966.00	42,793,337.00			
PSO	7-Apr-16	864833499	1,962.00	42,717,035.00			
PSO	8-Apr-16	864836396	1,485.00	31,963,781.00			
PSO	9-Apr-16	864840330	1,966.00	42,672,603.00			
PSO	10-Apr-16	864840331	1,901.00	40,961,434.00			
PSO	11-Apr-16	864843784	88.00	1,894,414.00			
PSO	11-Apr-16	864846017	964.00	21,213,575.00			
PSO	12-Apr-16	864847749	1,949.00	42,002,335.00			
PSO	13-Apr-16	864850834	1,453.00	31,347,449.00			
PSO	13-Apr-16	864850833	540.00	11,832,063.00			
PSO	14-Apr-16	864853286	1,033.00	22,257,683.00			
PSO	15-Apr-16	864858372	2,490.00	53,655,856.00			
PSO	15-Apr-16	864857852	2,480.00	53,431,263.00			
PSO	16-Apr-16	864868728	2,473.00	53,130,167.00			
PSO	17-Apr-16	864868732	2,974.00	66,306,796.00			
PSO	18-Apr-16	864868735	2,473.00	53,132,216.00			
PSO	19-Apr-16	864869968	980.00	21,837,667.00			
PSO	20-Apr-16	864874066	1,385.00	30,863,676.00			
PSO	21-Apr-16	864878990	1,459.00	32,518,258.00			
PSO	23-Apr-16	864886163	1,490.00	33,208,039.00			
PSO	23-Apr-16	864886158	1,482.00	33,042,426.00			
PSO	24-Apr-16	864886167	1,968.00	43,965,395.00			
PSO	25-Apr-16	864894134	983.00	21,908,415.00			
PSO	26-Apr-16	864900320	2,471.00	53,074,972.00			
PSO	27-Apr-16	864900322	2,773.00	61,814,401.00			
PSO	28-Apr-16	864908108	5,478.00	77,347,533.00			
PSO	29-Apr-16	864909353	3,473.00	77,421,810.00			
PSO	30-Apr-16	864911339	2,245.00	50,051,826.00			
PSO	30-Apr-16	864912852	1,236.00	27,546,803.00			
PSO							
PSO							
			67,532	1,481,380,057	84,034,775	16,806,558	85,360,453

PSO & BYCO

Opening as at Apr' 16
Purchases Apr' 16

Moist

PKR

14,481 288,143,078
67,531 1,481,380,055

Date	Quantity	Amount
18.04.2016	(1,675)	(34,763,514)
18.04.2016	(10,766)	(223,440,473)
18.04.2016	(3,367)	(69,871,976)
18.04.2016	(684)	(14,194,192)
18.04.2016	(7,375)	(153,069,752)
18.04.2016	(8,333)	(172,951,251)
30.04.2016	(6,103)	(133,950,994)
30.04.2016	(9,369)	(205,627,466)
30.04.2016	(5,362)	(117,679,741)
30.04.2016	(4,648)	(101,997,756)
30.04.2016	(5,050)	(110,839,626)
30.04.2016	(5,754)	(126,288,538)

Consumption Apr' 16
Closing as at Apr' 16

(63,436,119) (1,484,675,273)
13,525 296,847,854