

Ref. No. RA&SP/NEPRA/071/1349
Dated: August 28, 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 JULY 2015**

For information & M.A. H.
SAT-I
GPH:
- SA (Tech)
- Consult (Gen)
- M/F
02.09.15
cc: Chairman
vc/m(CA)
m(T)
m(M&E) - m(U)

Dear Sir

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

Required Monthly Adjustment:

This submission is based on actual power purchase invoice of NTDC for the month of July-15, received on 27-08-2015. Further, the rates are subject to change after the issuance of pending tariff determinations. The Gas price is being accounted for without incorporating GIDC amount, as the same is under litigation, hence the results are subject to the Court's decision and might be changed accordingly. 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	July 2015 (Over Jun-15)	
	(Mill. Rs.)	(Ps./kWh)
Fuel Price Variation	(978.979)	(59.701)
Power Purchase Price Variation	(323.003)	(19.698)
Total Fuel Costs Adjustment	(1,301.982)	(79.399)

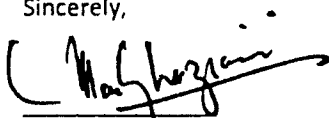
REGISTRAR
DY No. 9337
Date: 02-09-15

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.

Moreover, we reiterate our earlier submission Ref.: GM (RA)/NEPRA/2014/274 dated: 03-Oct-14, regarding approval of pending Heat Rate results of BQPS-II.

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		Jun-15	Jul-15
2 MONTHLY ALLOWABLE ADJUSTMENT ON UNITS SENT OUT BASIS			
I a. Monthly Variation in			
I Fuel Price	Mill Rs.	384.424	(978.979)
II Power Purchase Price - Fuel component	Mill Rs.	(191.234)	(323.003)
III Total Monthly Variation (I + II) - Over Reference Tariff	Mill Rs.	<u>193.190</u>	<u>(1,301.982)</u>
b. Units Sent Out			
	Mill kWh	1,651.616	1,639.800
II a. Monthly Variation in FSA - due to			
I Fuel Price	Ps/kWh	23.276	(59.701)
II Power Purchase Price - Fuel component	Ps/kWh	(11.579)	(19.598)
b. Monthly increase/decrease to be passed to Consumers (I+II)	Ps/kWh	11.697	(79.399)

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Jun-15	Jul-15	
1 UNITS SENT OUT - KE				
1a UNITS SENT OUT ON GAS				
i	Bin Qasim	Mill kWh	171.570	294.202
ii	Bin Qasim II - CCPP	Mill kWh	319.550	308.815
iii	Korangi Gas 2	Mill kWh	46.554	51.936
iv	Site Gas 2	Mill kWh	21.685	46.548
v	Korangi combined *	Mill kWh	112.080	123.645
	Total (i to viii)	Mill kWh	671.439	825.146
1b UNITS SENT OUT ON F. OIL				
I	Bin Qasim	Mill kWh	328.273	182.058
	Total	Mill kWh	328.273	182.058
1c TOTAL UNITS SENT OUT (1 + 2)				
I	Bin Qasim	Mill kWh	499.843	476.261
ii	Bin Qasim II - CCPP	Mill kWh	319.550	308.815
iii	Korangi Gas 2	Mill kWh	46.554	51.936
iv	Site Gas 2	Mill kWh	21.685	46.548
v	Korangi combined	Mill kWh	112.080	123.645
	Total (i to vii)	Mill kWh	999.712	1,007.205
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	488.23
b.	Fuel Price -F.O (Rs/Kg)	Rs/Kg	44,908	42,644
4 COST OF FUEL				
4a COST OF GAS				
i	Bin Qasim	Mill Rs	892.101	1,529.748
ii	Bin Qasim II - CCPP	Mill Rs	1,342.500	1,297.399
iii	Korangi Gas 2	Mill Rs	215.927	240.888
iv	Site Gas 2	Mill Rs	100.577	215.899
v	Korangi combined	Mill Rs	498.508	549.944
	Total (i to vii)	Mill Rs	3,049.613	3,833.880
4b COST OF FURNACE OIL				
I	Bin Qasim	Mill Rs	3,891.948	2,049.615
	Total	Mill Rs	3,891.948	2,049.615

4c TOTAL COST OF FUEL			
i Bin Qasim	Mill Rs	4,784.049	3,579.363
ii Bin Qasim II - CCPP	Mill Rs	1,342.500	1,297.399
iii Korangi Gas 2	Mill Rs	215.927	240.888
iv Site Gas 2	Mill Rs	100.577	215.899
v Korangi combined	Mill Rs	498.508	549.944
Total	Mill Rs	6,941.561	5,883.495
5 COST OF FUEL PER KWH			
a Bin Qasim	Rs/kWh	9.571	7.516
b Bin Qasim II - CCPP	Rs/kWh	4.201	4.201
c Korangi Gas 2	Rs/kWh	4.638	4.638
d Site Gas 2	Rs/kWh	4.638	4.638
e Korangi combined	Rs/kWh	4.448	4.448
6 INCREASE/DECREASE IN COST OF FUEL PER KWH			
a Bin Qasim	Rs/kWh	0.769	(2.056)
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	384.424	(978.979)
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 (a to g)	Mill Rs	384.424	(978.979)
8 INCREASE / DECREASE IN TARIFF			
TO BE PASSED IN THE MONTHLY BILLS			
a Fuel price variation (item 7-h)	Mill Rs	384.424	(978.979)
b Units Sent Out - KE	Mill kWh	999.712	1,007.205
c Power Purchase	Mill kWh	651.904	632.596
d Total Units Sent Out (b + c)	Mill kWh	1,651.616	1,639.800
e Increase / Decrease In Tariff (8a / 8d x 100)			
To be passed on to the consumers - FSA	Ps/kWh	23.276	(59.701)

Work Sheet- Power Purchase Cost Variation

DESCRIPTION		Jun-15	Jul-15
1 POWER PURCHASES			
a	KANUPP Mill kWh	17.611	36.926
b	PASMIC Mill kWh	0.808	0.093
c	TAPAL Mill kWh	83.114	63.093
d	GUL AHMED Mill kWh	77.602	70.273
e	NTDC/WAPDA Mill kWh	458.789	448.681
f	ANOUD POWER Mill kWh	6.629	6.886
g	INT IND (IIL) Mill kWh	7.351	6.643
	TOTAL Mill kWh	651.904	632.596
2 COST OF POWER PURCHASE - FUEL COST			
a	KANUPP Mill Rs	127.643	229.115
b	PASMIC Mill Rs	5.856	0.578
c	TAPAL Mill Rs	841.274	594.056
d	GUL AHMED Mill Rs	811.797	695.398
e	NTDC/WAPDA Mill Rs	2,228.107	2,056.609
f	ANOUD POWER Mill Rs	55.197	53.369
g	INT IND (IIL) Mill Rs	41.180	37.165
	TOTAL Mill Rs	4,111.054	3,666.291
3 COST OF POWER PURCHASE- Fuel Cost/kWh			
a	KANUPP Rs/kWh	7.248	6.205
b	PASMIC Rs/kWh	7.248	6.205
c	TAPAL Rs/kWh	10.122	9.416
d	GUL AHMED Rs/kWh	10.461	9.896
e	NTDC/WAPDA Rs/kWh	4.856	4.584
f	ANOUD POWER Rs/kWh	8.326	7.750
g	INT IND (IIL) Rs/kWh	5.602	5.595
	AVERAGE Rs/kWh	6.306	5.796
4 INCREASE / DECREASE IN FUEL COMPONENT OF POWER PURCHASE - TO BE PASSED IN THE MONTHLY BILLS			
a	Average Monthly Fuel cost of Powe Rs/kWh	6.306	5.796
b	Reference Rate - Previous Month Rs/kWh	6.600	6.306
c	Increase / Decrease in Average Rate o Rs/kWh	(0.293)	(0.511)
d	Total Power Purchase (Item 1m) Mill kWh	651.904	632.596
e	Increase / Decrease In Fuel Cost of Poi Mill Rs	(191.234)	(323.003)
5 INCREASE / DECREASE IN TARIFF TO BE PASSED IN THE MONTHLY BILLS			
a	Fuel price variation in cost of power purchase (Ite	(191.234)	(323.003)
b	Units Sent Out - KE Mill kWh	999.712	1,007.205
c	Power Purchase Mill kWh	651.904	632.596
d	Total Units Sent Out (b + c) Mill kWh	1,651.616	1,639.800
e	Increase / Decrease in Tariff (5a / 5d x 100) To be passed on to the consumers - I Ps/kWh	(11.579)	(19.698)
6 INCREASE / DECREASE IN REVENUE			
a	Units Sold Mill kWh	1,403.873	1,393.830
b	Increase / Decrease in Tariff (Item 5e) Ps/kWh	(11.579)	(19.698)
c	Increase / Decrease in Revenue (6a / Mill Rs	(162.549)	(274.553)
d	Accumulated increase / decrease in n Mill Rs		(274.553)

7 O&M PAYMENT

a	KANUPP	Mill Rs	16.995	35.635
b	PASMIC	Mill Rs	1.752	0.202
c	TAPAL	Mill Rs	84.352	63.787
d	GUL AHMED	Mill Rs	45.195	41.475
e	NTDC/WAPDA	Mill Rs	768.483	725.490
f	ANOUD POWER	Mill Rs	11.091	11.148
g	INT IND (IIL)	Mill Rs	11.629	10.625
	TOTAL	Mill Rs	939.498	888.362

8 O&M PAYMENT (Rs/kWh)

a	KANUPP	Rs/kWh	0.965	0.965
b	PASMIC	Rs/kWh	2.169	2.169
c	TAPAL	Rs/kWh	1.015	1.011
d	GUL AHMED	Rs/kWh	0.582	0.590
e	NTDC/WAPDA	Rs/kWh	1.675	1.617
f	ANOUD POWER	Rs/kWh	1.673	1.619
g	INT IND (IIL)	Rs/kWh	1.582	1.599
	TOTAL	Rs/kWh	1.441	1.404
	Variation over Base Rate	Rs/kWh	(0.410)	(0.037)
	Variation over Base Rate (8a*1m)	Mill Rs	(267.474)	(23.310)

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	2.165
b	GUL AHMED	Rs/kWh	1.620	1.786
	TOTAL	Rs/kWh	0.402	0.414
	Variation over Base Rate	Rs/kWh	(0.019)	0.012
	Variation over Base Rate (10n*1m)	Mill Rs	(12.117)	7.583

11 TOTAL O&M & CAPACITY PAYMENT

a	KANUPP	Mill Rs	16.995	35.635
b	PASMIC	Mill Rs	1.752	0.202
c	TAPAL	Mill Rs	220.923	200.363
d	GUL AHMED	Mill Rs	170.906	166.996
e	NTDC/WAPDA	Mill Rs	768.483	725.490
f	ANOUD POWER	Mill Rs	11.091	11.148
g	INT IND (IIL)	Mill Rs	11.629	10.625
	TOTAL	Mill Rs	1,201.780	1,150.459

12 TOTAL COST WITH O&M AND CAPACITY PAYMENT

				1,721.33
a	KANUPP	Mill Rs	144.638	264.750
b	PASMIC	Mill Rs	7.608	0.780
c	TAPAL	Mill Rs	1,062.197	794.419
d	GUL AHMED	Mill Rs	982.702	862.394
e	NTDC/WAPDA	Mill Rs	2,996.590	2,782.099
f	ANOUD POWER	Mill Rs	66.288	64.518
g	INT IND (IIL)	Mill Rs	52.810	47.790
	TOTAL	Mill Rs	5,312.833	4,816.750

13 COST OF POWER PURCHASE- TOTAL Cost/kWh

a	KANUPP	Rs/kWh	8.213	7.170
b	PASMIC	Rs/kWh	9.417	8.373
c	TAPAL	Rs/kWh	12.780	12.591
d	GUL AHMED	Rs/kWh	12.663	12.272
e	NTDC/WAPDA	Rs/kWh	6.532	6.201
f	ANOUD POWER	Rs/kWh	9.999	9.369
g	INT IND (IIL)	Rs/kWh	7.184	7.194
	AVERAGE	Rs/kWh	8.150	7.614

K-Electric Limited

Jul-15

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	GID- CESS Rs.	Meter rent	Total Amount of SSGC Bills	Rs/ MMBTU
BIN QASIM													
Bin Qasim Power Station (1)	547,900.2275	14,648,421	1,053.800	1,053.79678	519.930	16.772	19,447.179	547,901.90	267,501,328		2,500	267,503,828	488.23
Bin Qasim Power Station (2)	542,319.6829	14,499,222	1,053.800	1,053.79678	514.634	16.601	19,249.103	542,321.34	264,776,739		2,500	264,779,239	488.23
Bin Qasim Power Station (3)	555,706.7958	14,857,134	1,053.800	1,053.79678	527.338	17.011	19,724.265	555,708.50	271,312,729		2,500	271,315,229	488.23
Bin Qasim Power Station (4)	541,899.5683	14,487,990	1,053.800	1,053.79678	514.235	16.588	19,234.192	541,901.23	264,571,628		2,500	264,574,128	488.23
Bin Qasim Power Station (5)	537,339.7990	14,366,082	1,053.800	1,053.79678	509.908	16.449	19,072.347	537,341.44	262,345,410		2,500	262,347,910	488.23
Bin Qasim Power Station (6)	535,904.8189	14,327,717	1,053.800	1,053.79678	508.547	16.405	19,021.414	535,906.46	261,644,810		2,500	261,647,310	488.23
Total	3,261,070.8924	87,188,566	1,053.8000	1,053.79678	3,094.59	99.63	115,748.500	3,261,480.8693	1,592,152,642	-	15,000	1,592,167,642	488.23
BIN QASIM COMBINED CYCLE POWER PLANT													
Bin Qasim Power Station (7)	513,925.7792	13,740,095	1,053.800	1,053.79678	487.690	15.732	18,241.289	513,927.35	250,913,983		2,500	250,916,483	488.23
Bin Qasim Power Station (8)	528,286.5017	14,124,037	1,053.800	1,053.79678	501.317	16.172	18,751.009	528,288.12	257,925,319		2,500	257,927,819	488.23
Bin Qasim Power Station (9)	540,944.2490	14,462,449	1,053.800	1,053.79678	513.329	16.559	19,200.283	540,945.90	264,105,211		2,500	264,107,711	488.23
Bin Qasim Power Station (10)	552,829.4294	14,780,206	1,053.800	1,053.79678	524.607	16.923	19,622.136	552,831.12	269,907,913		2,500	269,910,413	488.23
Bin Qasim Power Station (11)	582,655.4710	15,577,622	1,053.800	1,053.79678	552.911	17.836	20,680.782	582,657.25	284,469,881		2,500	284,472,381	488.23
Total	2,718,641.4307	72,684,409	1,053.800	1,053.79678	2,579.8536	83.221	96,495.500	2,718,649.75	1,327,322,307	-	12,500	1,327,334,807	488.23
KORANGI THERMAL POWER STATION													
			952.380	952.38258	157.377	5.077	5,319.907	149,882.27	73,177,218		3,000	73,180,218	488.23
KORANGI TOWN GAS TURBINE-II													
Korangi Town Gas Turbine 00095	149,882.8743	4,433,903	952.380	952.38258	157.377	5.077	5,319.907	149,882.27	73,177,218		3,000	73,180,218	488.23
Korangi Town Gas Turbine 00000	370,890.0870	10,971,853	952.380	952.38258	389.434	12.562	13,164.302	370,889.08	181,079,667		2,500	181,082,167	488.23
Korangi Town Gas Turbine			952.380	#DIV/0!					16,463		2,500	18,963	#DIV/0!
	520,772.76130	15,405,756	952.380	952.38258	546.810	17.639	18,484.210	520,771.35	254,273,348		8,000	254,281,348	488.26
SITE GAS TURBINE-II													
Site Gas Turbine	252,364.3488	7,494,571	948.700	948.69677	266.012	8.581	8,957.427	252,365.21	123,211,846		3,000	123,214,846	488.23
Site Gas Turbine - 2	200,313.6384	5,948,799	948.700	948.69677	211.146	6.811	7,109.938	200,314.32	97,799,128		2,500	97,801,628	488.23
	452,677.9872	13,443,370	948.700	948.69677	477.1577	15.392	16,067.365	452,679.53	221,010,974		5,500	221,016,474	488.23
KORANGI COMBINED CYCLE POWER PLANT													
(KTPS 1)	542,253.8956	14,953,138	1,021.680	1,021.68387	530.745	17.121	19,246.636	542,251.84	264,744,619		2,500	264,747,119	488.23
(KTPS 2)	541,364.8583	14,928,822	1,021.680	1,021.68387	529.875	17.093	19,215.081	541,362.81	264,310,565		2,500	264,313,065	488.23
	1,083,618.7539	29,881,960	1,021.680	1,021.68387	1,060.6204	34.214	38,461.717	1,083,614.65	529,055,184		5,000	529,060,184	488.23
KESC West Wharf Grid Station	0		948.70						16,463		2,000	18,463	
Total	8,036,781.8255	218,601,861	1,035.799	1,035.79670	7,759.0340	250.298	285,257.2916	8,036,796.1436	3,923,847,381	-	51,000	3,923,898,381	488.24
									3,823,830,918		GST @17%	667,067,725	
									3,923,847,380			4,590,961,106	

Without SSWW>>>>
SSGC Billed

INVOICES

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Grand Total (BYCO)	Total Financial Charges (BYCO)
BYCO 1	2-Jul-15	500109334	1,988.950	83,178,883.48	14,140,410	98,037,590	18,296
BYCO 2	4-Jul-15	500109450	2,991.827	125,119,701.05	21,270,349	147,470,529	1,580,479
BYCO 3	5-Jul-15	500109452	698.646	29,217,725.04	4,967,013	34,437,050	52,311
BYCO 4	5-Jul-15	500109451	788.837	32,989,557.76	5,608,225	38,882,666	234,883
BYCO 5	7-Jul-15	500109821	994.495	41,590,278.15	7,070,347	49,019,781	359,155
BYCO 6	8-Jul-15	500109822	563.863	23,581,032.59	4,008,776	27,793,444	233,635
BYCO 7	10-Jul-15	500110015	590.148	24,680,284.43	4,195,648	29,089,061	213,128
BYCO							
			13,517	360,357,463	61,260,789	422,309,202	3,111,889

Vendor	Inv Date	Invoice No	Quantity	Total Cost	Total GST Amount	Total Financial charges (PSO)	Grand Total (PSO)
PSO 1	2-Jul-15	964062038	4,472.397	188,064,293.85	31,970,930	947,656	220,982,880
PSO 2	4-Jul-15	964068385	3,137.185	131,918,629.25	22,426,167	664,738	155,009,534
PSO 3	5-Jul-15	964068387	4,320.112	181,680,709.60	30,882,321	915,389	213,458,419
PSO 4	6-Jul-15	964072444	1,901.030	79,938,311.50	13,589,513	402,809	93,930,634
PSO 5	7-Jul-15	964073622	1,086.059	45,668,780.95	7,763,693	230,125	53,662,599
PSO 6	7-Jul-15	964075450	1,027.846	43,220,924.30	7,347,557	217,790	50,786,272
PSO 7	8-Jul-15	964078833	2,947.782	123,954,233.10	21,072,220	624,606	145,651,058
PSO 8	8-Jul-15	964078836	814.373	34,244,384.65	5,821,545	172,557	40,238,488
PSO 9	9-Jul-15	964081410	2,195.089	92,303,492.45	15,691,594	465,117	108,460,204
PSO 10	9-Jul-15	964080094	816.844	34,348,290.20	5,839,209	173,081	40,360,581
PSO 11	12-Jul-15	964088560	1,787.197	75,151,633.85	12,775,778	378,689	88,306,101
PSO 12	12-Jul-15	964088578	2,984.092	125,481,068.60	21,331,782	632,299	147,445,150
PSO 13	12-Jul-15	964088592	4,476.126	188,221,098.30	31,997,587	948,446	221,167,131
PSO 14	13-Jul-15	964091927	2,364.599	99,431,387.95	16,903,336	501,035	116,835,759
PSO 15	15-Jul-15	964099344	617.113	25,949,601.65	4,411,432	130,760	30,491,794
PSO 16	17-Jul-15	964111960	1,479.844	56,069,809.32	9,531,868	281,718	65,883,395
PSO 17	17-Jul-15	964111958	1,989.596	75,383,802.84	12,815,246	378,759	88,577,809
PSO 18	21-Jul-15	964111964	1,482.685	56,177,451.97	9,550,167	282,259	66,009,878
PSO							
PSO							
			31,900	1,357,674,000	221,721,911	2,178,335	1,581,574,333
			48,517	2,017,545,367	642,079,408	88,608,603	2,371,987,803

PSO & BYCO Mion PKR

Opening as at Jul' 15 21,910 970,976,235
 Purchases Jul' 15 48,517 2,017,545,367

Date	Quantity	Amount
16.07.2015	(12,403)	(530,668,405)
16.07.2015	(9,602)	(410,824,639)
16.07.2015	(7,920)	(338,872,770)
16.07.2015	(3,580)	(153,167,216)
16.07.2015	(4,253)	(181,945,996)
16.07.2015	(7,340)	(314,046,511)
31.07.2015	(3,264)	(136,464,748)
31.07.2015	(1,815)	(75,897,230)
31.07.2015	(1,961)	(82,007,374)
31.07.2015	(269)	(11,234,402)
31.07.2015	(18)	(731,679)
31.07.2015	(327)	(13,668,592)

Consumption Jul' 15 (52,751) (2,249,529,562)
 Closing as at Jul' 15 17,675 738,992,040
17,675 738,992,039.85