

For information & n.a. Please

ADG (M/F)  
Copy to:  
• DG (M&E)  
• M/F

CC: Chairman  
• M (Tariff)



Ref No. KE/BPR/NEPRA/2021/407  
February 16, 2021

Mr. Syed Safer Hussain,  
Registrar,  
National Electric Power Regulatory Authority,  
NEPRA Tower, Attaturk Avenue (East),  
Sector G-5/1,  
Islamabad.

**Subject: Monthly Cost Variation for the month of January 2021 under Multi-Year Tariff 2017 – 2023**

Dear Sir,

This is with reference to the mechanism for monthly and quarterly variations provided in the Multi-Year Tariff Determination of K-Electric Limited (KE) dated July 5, 2018 (MYT), notified vide SRO No. 576 (I)/2019 dated May 22, 2019.

In this regard, please find enclosed calculation of monthly variation for the month of January 2021 along with relevant supports, for Authority's approval. Please note that the calculation for the month of January 2021 is based on CPPA-G's latest fuel cost determined by NEPRA for the month of December 2020 and it is subject to adjustment based on the determination for January 2021 to be issued by NEPRA.

Moreover, fuel cost (own plants) for January 2021 includes impact of GIDC arrears monthly installments billed by SSGC for the month of January 2021 amounting to PKR 762 million (excluding taxes) as per Supreme court order dated November 2, 2020 which is to be passed on to consumers.

Summary of Cost variation for the month January 2021 is as below;

Month	Variation Amount (PKR Million)	Variation per unit (PKR / kWh)
January-21	2,053	1.978

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 / mark-up / interest. All the requisite details including generation statistic sheets and invoices are enclosed.

#### Heat Rate

In the MYT, NEPRA determined provisional Heat rates for KE's generating plants and directed KE to conduct fresh Heat rate test for its plants, based on which final Heat rates will be determined by NEPRA.

In this regard, NEPRA has issued its decision on Heat rate for BQPS – II plant on January 1, 2020 and accordingly the calculations are based on Heat rates determined therein.

Further, with respect to Heat Rates of KCCP, SGTPS & KGTPS, NEPRA issued its determination on September 2, 2020 and January 18, 2021 respectively, against which KE has filed review motions. The required adjustment will be incorporated after the final heat rates are determined.

Tariff Division Record  
1202  
By No. 18-2-21  
Dated 18-2-21

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Moreover, Heat rate test of BQPS I Plant has been conducted and Independent Engineers' reports have been submitted to NEPRA. The working for required adjustment will be submitted to NEPRA after determination of final Heat rates of BQPS I based on the test results.

Furthermore, KE would humbly request NEPRA for expeditious processing of pending monthly variations for July 2019 to December 2020 and quarterly tariff variations for the period April 2019 to December 2020.

Sincerely,

Ayaz Jaffar Ahmed  
Director – Finance & Regulations

**Enclosed:**

- Calculation sheet of monthly variation – January 2021
- Supporting Documents for January 2021

K Electric Limited

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

DESCRIPTION		Unit	Dec-20	Jan-21
			Reference	Current
A)	Cost of fuel:			
	Cost of fuel - KE	a	6,201.936	6,834.763
	Cost of fuel - Power Purchases		3,346.096	4,397.395
	<b>Total</b>		<b>9,548.032</b>	<b>11,232.158</b>
B)	Units Sent Out			
	Units Sent Out - KE	b	461.414	447.715
	Units - Power purchases		618.292	590.225
	<b>Total</b>		<b>1,079.706</b>	<b>1,037.940</b>
	Cost per unit			
	Cost of fuel - KE	c = a/b	5.744	6.585
	Cost of fuel - Power Purchases		3.099	4.237
	<b>Average</b>		<b>8.843</b>	<b>10.822</b>
D)	Variation per unit			
	Cost of fuel - KE	d		0.841
	Cost of fuel - Power Purchases			1.138
	<b>Total Fuel Cost Adjustment</b>			<b>1.978</b>
E)	<b>Total Fuel Cost Adjustment</b>		Ps/kWh	<b>197.84</b>
F)	Variation amount			
	Cost of fuel - KE	e = d x	Mill Rs.	872.736
	Cost of fuel - Power Purchases	b (total)	Mill Rs.	1,180.735
	<b>Total Fuel Cost Adjustment</b>		Mill Rs.	<b>2,053.471</b>

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-20	Jan-21
		Current	Current
<b>1</b>	<b>UNITS SENT OUT</b>		
	<b>1a UNITS SENT OUT ON FURNACE OIL</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	GWh 11.456	65.288
	Unit 2	GWh 24.150	69.730
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh 70.408	8.995
	Unit 6	GWh -	54.433
	<b>Total units sent out on furnace oil - Bin Qasim - I</b>	<b>GWh 106.013</b>	<b>198.445</b>
	<b>1b UNITS SENT OUT ON GAS</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	GWh -	-
	Unit 2	GWh -	-
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh -	-
	Unit 6	GWh -	-
	<b>Total units sent out on gas - Bin Qasim - I</b>	<b>GWh -</b>	<b>-</b>
	ii Bin Qasim II - 560 MW	GWh -	-
	iii Korangi Town Gas Turbine II	GWh -	-
	iv Site Gas Turbine II	GWh -	-
	v Korangi CCGP	GWh -	-
	<b>Total units sent out on gas - KE</b>	<b>GWh -</b>	<b>-</b>
	<b>1c UNITS SENT OUT ON LNG</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	GWh 1.849	0.924
	Unit 2	GWh 1.644	10.998
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh 8.928	0.394
	Unit 6	GWh -	42.905
	<b>Total units sent out on LNG - Bin Qasim - I</b>	<b>GWh 12.421</b>	<b>55.221</b>
	ii Bin Qasim II - 560 MW	GWh 318.635	133.859
	iii Korangi Town Gas Turbine II	GWh 1.826	19.716
	iv Site Gas Turbine II	GWh 0.001	10.521
	v Korangi CCGP	GWh 22.519	29.952
	<b>Total units sent out on LNG - KE</b>	<b>GWh 355.401</b>	<b>249.270</b>
	<b>Total units sent out KE</b>	<b>GWh 461.414</b>	<b>447.715</b>
<b>2</b>	<b>HEAT RATE AT BUS BAR</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	Btu/kWh 10,802	10,802
	Unit 2	Btu/kWh 10,650	10,650
	Unit 3	Btu/kWh 10,996	10,996
	Unit 4	Btu/kWh 10,899	10,899
	Unit 5	Btu/kWh 10,304	10,304
	Unit 6	Btu/kWh 10,249	10,249
	ii Bin Qasim II - 560 MW	Btu/kWh 8,381	8,381
	iii Korangi Town Gas Turbine II	Btu/kWh 8,738	8,738
	iv Site Gas Turbine II	Btu/kWh 8,746	8,746
	v Korangi CCGP	Btu/kWh 8,497	8,497

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-20	Jan-21	
		Current	Current	
3	<u>Calorific Value - Furnace Oil</u>	Btu/kg	40,351	40,351
4	<u>FUEL PRICES</u>			
4a	Fuel Price - Gas	Rs./MMBTU	857	857
4b	Fuel Price - Furnace Oil	Rs./Mton	54,463	58,864
4c	Fuel Price - Furnace Oil	Rs./MMBTU	1,350	1,459
4d	Fuel Price - LNG	Rs./MMBTU	1,312	1,362
5	<u>COST OF FUEL</u>			
5a	<u>Furnace oil</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Mill Rs.	167.022	1,028.801
	Unit 2	Mill Rs.	347.141	1,083.341
	Unit 3	Mill Rs.	-	-
	Unit 4	Mill Rs.	-	-
	Unit 5	Mill Rs.	979.207	135.201
	Unit 6	Mill Rs.	-	813.842
	<b>Total Cost of Furnace Oil - Bin Qasim - I</b>	<b>Mill Rs.</b>	<b>1,493.370</b>	<b>3,061.185</b>
5b	<u>Gas</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Mill Rs.	-	-
	Unit 2	Mill Rs.	-	-
	Unit 3	Mill Rs.	-	-
	Unit 4	Mill Rs.	-	-
	Unit 5	Mill Rs.	-	-
	Unit 6	Mill Rs.	-	-
	<b>Total Cost of Gas - Bin Qasim - I</b>	<b>Mill Rs.</b>	<b>-</b>	<b>-</b>
	ii Bin Qasim II - 560 MW	Mill Rs.	-	-
	iii Korangi Town Gas Turbine II	Mill Rs.	-	-
	iv Site Gas Turbine II	Mill Rs.	-	-
	v Korangi CCGP	Mill Rs.	-	-
	<b>Total Cost of Gas - KE</b>	<b>Mill Rs.</b>	<b>-</b>	<b>-</b>
5c	<u>LNG</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Mill Rs.	26.213	13.593
	Unit 2	Mill Rs.	22.974	159.491
	Unit 3	Mill Rs.	-	-
	Unit 4	Mill Rs.	-	-
	Unit 5	Mill Rs.	120.722	5.531
	Unit 6	Mill Rs.	-	598.778
	<b>Total Cost of LNG - Bin Qasim - I</b>	<b>Mill Rs.</b>	<b>169.909</b>	<b>777.394</b>
	ii Bin Qasim II - 560 MW	Mill Rs.	3,504.439	1,527.585
	iii Korangi Town Gas Turbine II	Mill Rs.	20.939	234.590
	iv Site Gas Turbine II	Mill Rs.	0.013	125.301
	v Korangi CCGP	Mill Rs.	251.106	345.549
	<b>Total Cost of LNG - KE</b>	<b>Mill Rs.</b>	<b>3,946.406</b>	<b>3,011.419</b>
	GIDC Arrears billed - Note 1		762.160	762.160
	<b>Total cost of fuel - KE</b>	<b>a Mill Rs.</b>	<b>6,201.936</b>	<b>6,834.763</b>
6	<u>Variation in Cost of Fuel - KE</u>			
6a	Units Sent Out - KE	GWh	461.414	447.715
6b	Units - Power Purchases	GWh	618.292	590.225
	<b>Total Units Sent Out</b>	<b>b GWh</b>	<b>1,079.706</b>	<b>1,037.940</b>
6c	Cost per unit	c = a/b Rs./kWh		6.585
6d	Variation per unit (Cost of Fuel - KE)	Rs./kWh		0.841
6e	<b>Variation amount (Cost of Fuel - KE)</b>	<b>Mill Rs.</b>		<b>872.736</b>

Note 1: Installment of GIDC arrears billed by SSGC in as per Supreme court order dated November 02, 2020. The amount of GIDC will be paid to SSGC when allowed by NEPRA in tariff.

Work Sheet- Power Purchase O&M and Capacity Cost

DESCRIPTION		Dec-20	Jan-21		
<b>1 POWER PURCHASES</b>					
a	KANUPP	GWh	9,308	14,675	
b	TAPAL	GWh	53,559	60,263	
c	GUL AHMED	GWh	37,999	55,105	
d	CPPA-G	GWh	364,321	350,907	
e	ANOUD POWER	GWh	-	-	
f	INT IND (IIL)	GWh	3,850	0,643	
g	FFBL	GWh	40,107	20,471	
h	SNPC	GWh	63,747	53,102	
i	OURSUN	GWh	7,437	7,430	
j	CPPA-G - 150 MW	GWh	24,511	13,533	
k	GHARO SOLAR	GWh	7,735	8,033	
l	LOTTE	GWh	5,719	6,062	
<b>TOTAL</b>		<b>GWh</b>	<b>618,292</b>	<b>590,225</b>	
<b>2 COST OF POWER PURCHASES - FUEL COST</b>					
a	KANUPP - Note 1	Mill Rs.	112,674	205,499	
b	TAPAL	Mill Rs.	662,326	741,514	
c	GUL AHMED	Mill Rs.	489,240	679,902	
d	CPPA-G - Note 2	Mill Rs.	1,186,703	2,104,073	
e	ANOUD POWER	Mill Rs.	-	-	
f	INT IND (IIL)	Mill Rs.	41,044	6,851	
g	FFBL	Mill Rs.	265,488	135,508	
h	SNPC	Mill Rs.	434,139	360,826	
i	OURSUN	Mill Rs.	-	-	
j	CPPA-G - 150 MW - Note 2	Mill Rs.	79,839	81,147	
k	GHARO SOLAR	Mill Rs.	-	-	
l	LOTTE	Mill Rs.	74,643	82,075	
<b>TOTAL</b>		<b>Mill Rs.</b>	<b>3,346,096</b>	<b>4,397,395</b>	
<b>3 FUEL COST / UNIT</b>					
a	KANUPP - Note 1	Rs./kwh	12.106	14.003	
b	TAPAL	Rs./kwh	12.366	12.305	
c	GUL AHMED	Rs./kwh	12.875	12.338	
d	CPPA-G - Note 2	Rs./kwh	3.257	5.996	
e	ANOUD POWER	Rs./kwh	-	-	
f	INT IND (IIL)	Rs./kwh	10.662	10.657	
g	FFBL	Rs./kwh	6.620	6.620	
h	SNPC	Rs./kwh	6.810	6.795	
i	OURSUN	Rs./kwh	-	-	
j	CPPA-G - 150 MW - Note 2	Rs./kwh	3.257	5.996	
k	GHARO SOLAR	Rs./kwh	-	-	
l	LOTTE	Rs./kwh	13.052	13.539	
<b>4 VARIATION IN COST OF FUEL - POWER PURCHASES</b>					
4a	Cost of Fuel - Power Purchases	a	Mill Rs.	3,346,096	4,397,395
Units Sent out:					
Units Sent Out - KE			GWh	461,414	447,715
Units - Power Purchases			GWh	618,292	590,225
4b	Total Units Sent Out	b	GWh	<u>1,079,706</u>	<u>1,037,940</u>
4c	Cost per unit	c = a/b	Rs./kwh	3.099	4.237
4d	Variation per unit (Cost of Fuel - Power Purchases)		Rs./kwh		1.138
4e	Variation amount (Cost of Fuel - Power Purchases)		Mill Rs.		<u>1,180,735</u>

Note 1: Kanupp details are provisional for the month of January-21 as the invoice for the month is yet to be received.

Note 2: CPPA-G's fuel cost for the month of January 2021 is based on NEPRA's determination of fuel cost for the month of December 2020 (latest determined) as the fuel cost for the month of January 2020 is yet to be determined.

For information & n.a. Please

SA (Tariff-I)

Copy to:

- DG (MAE)  
- M/F

CC: Chairman  
M (Tariff)

Ref No. KE/BPR/NEPRA/2021/639

March 17, 2021

Mr. Syed Safeer Hussain,  
Registrar,  
National Electric Power Regulatory Authority,  
NEPRA Tower, Attaturk Avenue (East),  
Sector G-5/1,  
Islamabad.

**Subject: Monthly Cost Variation for the month of February 2021 under Multi-Year Tariff 2017 – 2023**

Dear Sir,

This is with reference to the mechanism for monthly and quarterly variations provided in the Multi-Year Tariff Determination of K-Electric Limited (KE) dated July 5, 2018 (MYT), notified vide SRO No. 576 (I)/2019 dated May 22, 2019.

In this regard, please find enclosed calculation of monthly variation for the month of February 2021 along with relevant supports, for Authority's approval. Please note that the calculation for the month of February 2021 is based on CPPA-G's latest fuel cost determined by NEPRA for the month of January 2021 and it is subject to adjustment based on the determination for February 2021 to be issued by NEPRA.

Moreover, fuel cost (own plants) for February 2021 includes impact of GIDC arrears monthly installments billed by SSGC for the month of February 2021 amounting to PKR 762 million (excluding taxes) as per Supreme court order dated November 2, 2020 which is to be passed on to consumers.

Summary of Cost variation for the month February 2021 is as below;

Month	Variation Amount (PKR Million)	Variation per unit (PKR / kWh)
February-21	2,773	2.495

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 / mark-up / interest. All the requisite details including generation statistic sheets and invoices are enclosed.

#### Heat Rate

In the MYT, NEPRA determined provisional Heat rates for KE's generating plants and directed KE to conduct fresh Heat rate test for its plants, based on which final Heat rates will be determined by NEPRA.

In this regard, NEPRA has issued its decision on Heat rate for BQPS – II plant on January 1, 2020 and accordingly the calculations are based on Heat rates determined therein.

Further, with respect to Heat Rates of KCCP, SGTPS & KGTPS, NEPRA issued its determination on September 2, 2020 and January 18, 2021 respectively, against which KE has filed review motions. The required adjustment will be incorporated after the final heat rates are determined.

By No. 1836  
Dated 22-3-21  
RECEIVED  
By No. 1813/21  
Dated 18/3/21

Work Sheet- Power Purchase O&M and Capacity Cost

DESCRIPTION		Dec-20	Feb-21
<b>1 POWER PURCHASES</b>			
a	KANUPP	GWh	9.308
b	TAPAL	GWh	53.559
c	GUL AHMED	GWh	37.999
d	CPPA-G	GWh	364.321
e	ANOUD POWER	GWh	-
f	INT IND (IIL)	GWh	3.850
g	FFBL	GWh	40.107
h	SNPC	GWh	63.747
i	OURSUN	GWh	7.437
j	CPPA-G - 150 MW	GWh	24.511
k	GHARO SOLAR	GWh	7.735
l	LOTTE	GWh	5.719
<b>TOTAL</b>		<b>GWh</b>	<b>618.292</b>
<b>2 COST OF POWER PURCHASES - FUEL COST</b>			
a	KANUPP - Note 1	Mill Rs.	112.674
b	TAPAL	Mill Rs.	662.326
c	GUL AHMED	Mill Rs.	489.240
d	CPPA-G - Note 2	Mill Rs.	2,184.505
e	ANOUD POWER	Mill Rs.	-
f	INT IND (IIL)	Mill Rs.	41.044
g	FFBL	Mill Rs.	265.488
h	SNPC	Mill Rs.	434.139
i	OURSUN	Mill Rs.	-
j	CPPA-G - 150 MW - Note 2	Mill Rs.	146.970
k	GHARO SOLAR	Mill Rs.	-
l	LOTTE	Mill Rs.	74.643
<b>TOTAL</b>		<b>Mill Rs.</b>	<b>4,411.029</b>
<b>3 FUEL COST / UNIT</b>			
a	KANUPP - Note 1	Rs./kwh	12.106
b	TAPAL	Rs./kwh	12.366
c	GUL AHMED	Rs./kwh	12.875
d	CPPA-G - Note 2	Rs./kwh	5.996
e	ANOUD POWER	Rs./kwh	-
f	INT IND (IIL)	Rs./kwh	10.662
g	FFBL	Rs./kwh	6.620
h	SNPC	Rs./kwh	6.810
i	OURSUN	Rs./kwh	-
j	CPPA-G - 150 MW - Note 2	Rs./kwh	5.996
k	GHARO SOLAR	Rs./kwh	-
l	LOTTE	Rs./kwh	13.052
<b>4 VARIATION IN COST OF FUEL - POWER PURCHASES</b>			
4a	Cost of Fuel - Power Purchases	a	Mill Rs.
			4,411.029
	Units Sent out:		
	Units Sent Out - KE	GWh	461.414
	Units - Power Purchases	GWh	618.292
4b	Total Units Sent Out	b	GWh
			1,079.706
4c	Cost per unit	c = a/b	Rs./kwh
			4.085
4d	Variation per unit (Cost of Fuel - Power Purchases)		Rs./kwh
			(0.511)
4e	Variation amount (Cost of Fuel - Power Purchases)		Mill Rs.
			(568.073)

Note 1: Kanupp details are provisional for the month of February-21 as the invoice for the month is yet to be received.

Note 2: CPPA-G's fuel cost for the month of February 2021 is based on NEPRA's determination of fuel cost for the month of January 2021 (latest determined) as the fuel cost for the month of February 2021 is yet to be determined. Further, CPPA-G's cost for the month of December 2020 has been updated based on NEPRA's determination



For information & n.a. Please

19/4/21

SA (Tariff)  
Copy to  
DG (MAE)  
MIF

CC: Chairman  
M (Tariff)



Mr. Syed Safer Hussain,  
Registrar,  
National Electric Power Regulatory Authority,  
NEPRA Tower, Attaturk Avenue (East),  
Sector G-5/1,  
Islamabad.

Ref No. KE/BPR/NEPRA/2021/855  
April 14, 2021

**Subject: Monthly Cost Variation for the month of March 2021 under Multi-Year Tariff 2017 – 2023**

Dear Sir,

This is with reference to the mechanism for monthly and quarterly variations provided in the Multi-Year Tariff Determination of K-Electric Limited (KE) dated July 5, 2018 (MYT), notified vide SRO No. 576 (I)/2019 dated May 22, 2019.

In this regard, please find enclosed calculation of monthly variation for the month of March 2021 along with relevant supports, for Authority's approval. Please note that the calculation for the month of March 2021 is based on CPPA-G's latest fuel cost determined by NEPRA for the month of February 2021 and it is subject to adjustment based on the determination for March 2021 to be issued by NEPRA.

Moreover, fuel cost (own plants) for March 2021 includes impact of GIDC arrears monthly installments for the month of March 2021 amounting to PKR 762 million (excluding taxes) as per Supreme court order dated November 2, 2020 which is to be passed on to consumers.

Summary of Cost variation for the month March 2021 is as below;

Month	Variation Amount (PKR Million)	Variation per unit (PKR / kwh)
March-21	2,348	1.497

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 / mark-up / interest. All the requisite details including generation statistic sheets and invoices are enclosed.

Heat Rate

In the MYT, NEPRA determined provisional Heat rates for KE's generating plants and directed KE to conduct fresh Heat rate test for its plants, based on which final Heat rates will be determined by NEPRA.

In this regard, NEPRA has issued its decision on Heat rate for BQPS – II plant on January 1, 2020 and accordingly the calculations are based on Heat rates determined therein.

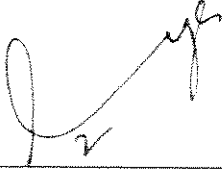
Further, with respect to Heat Rates of KCCP, SGTPS & KGTPS, NEPRA issued its determination on September 2, 2020 and January 18, 2021 respectively, against which KE has filed review motions. The required adjustment will be incorporated after the final heat rates are determined.

Tariff Division Record  
By No. 2394  
Dated. 21-4-21  
REGISAR  
By No. 6960  
Dated. 18/4/21

Moreover, Heat rate test of BQPS I Plant has been conducted and Independent Engineers' reports have been submitted to NEPRA. The working for required adjustment will be submitted to NEPRA after determination of final Heat rates of BQPS I based on the test results.

Furthermore, KE would humbly request NEPRA for expeditious processing of pending monthly variations for June 2020 to February 2021 and quarterly tariff variations for the period April 2020 to December 2020.

Sincerely,



**Ayaz Jaffar Ahmed**  
Director – Finance & Regulations

**Enclosed:**

- Calculation sheet of monthly variation – March 2021
- Supporting Documents for March 2021

Electric Limited

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

DESCRIPTION		Unit	Dec-20	Mar-21
			Reference	Current
a)	<b>Cost of fuel:</b>			
	Cost of fuel - KE	Mill Rs.	6,201.936	12,467.377
	Cost of fuel - Power Purchases	Mill Rs.	4,411.029	5,299.675
	<b>Total</b>	Mill Rs.	<b>10,612.965</b>	<b>17,767.052</b>
b)	<b>Units Sent Out</b>			
	Units Sent Out - KE	GWh	461.414	843.050
	Units - Power purchases	GWh	618.292	725.620
	<b>Total</b>	GWh	<b>1,079.706</b>	<b>1,568.671</b>
c)	<b>Cost per unit</b>			
	Cost of fuel - KE	Rs./kWh	5.744	7.948
	Cost of fuel - Power Purchases	Rs./kWh	4.085	3.378
	<b>Average</b>	Rs./kWh	<b>9.829</b>	<b>11.326</b>
d)	<b>Variation per unit</b>			
	Cost of fuel - KE	Rs./kWh		2.204
	Cost of fuel - Power Purchases	Rs./kWh		(0.707)
	<b>Total Fuel Cost Adjustment</b>	Rs./kWh		<b>1.497</b>
e)	<b>Total Fuel Cost Adjustment</b>	Ps/kWh		<b>149.67</b>
f)	<b>Variation amount</b>			
	Cost of fuel - KE	Mill Rs.		3,456.783
	Cost of fuel - Power Purchases	Mill Rs.		(1,108.969)
	<b>Total Fuel Cost Adjustment</b>	Mill Rs.		<b>2,347.814</b>

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-20	Mar-21
		Reference	Current
<b>1</b>	<b>UNITS SENT OUT</b>		
1a	<b>UNITS SENT OUT ON FURNACE OIL</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	GWh 11.456	81.139
	Unit 2	GWh 24.150	63.802
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh 70.408	84.178
	Unit 6	GWh -	63.433
	Total units sent out on furnace oil - Bin Qasim - I	GWh 106.013	292.551
1b	<b>UNITS SENT OUT ON GAS</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	GWh -	0.339
	Unit 2	GWh -	0.300
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh -	3.726
	Unit 6	GWh -	10.748
	Total units sent out on gas - Bin Qasim - I	GWh -	15.114
	ii Bin Qasim II - 560 MW	GWh -	93.123
	iii Korangi Town Gas Turbine II	GWh -	10.053
	iv Site Gas Turbine II	GWh -	5.178
	v Korangi CCPP	GWh -	17.167
	Total units sent out on gas - KE	GWh -	140.635
1c	<b>UNITS SENT OUT ON LNG</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	GWh 1.849	0.724
	Unit 2	GWh 1.644	0.641
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh 8.928	7.957
	Unit 6	GWh -	22.950
	Total units sent out on LNG - Bin Qasim - I	GWh 12.421	32.272
	ii Bin Qasim II - 560 MW	GWh 318.635	270.711
	iii Korangi Town Gas Turbine II	GWh 1.826	29.572
	iv Site Gas Turbine II	GWh 0.001	16.622
	v Korangi CCPP	GWh 22.519	60.688
	Total units sent out on LNG - KE	GWh 355.401	409.864
	Total units sent out KE	GWh 461.414	843.050
<b>2</b>	<b>HEAT RATE AT BUS BAR</b>		
i	<u>Bin Qasim - I</u>		
	Unit 1	Btu/kWh 10,802	10,802
	Unit 2	Btu/kWh 10,550	10,650
	Unit 3	Btu/kWh 10,996	10,996
	Unit 4	Btu/kWh 10,899	10,899
	Unit 5	Btu/kWh 10,304	10,304
	Unit 6	Btu/kWh 10,249	10,249
	ii Bin Qasim II - 560 MW	Btu/kWh 8,381	8,381
	iii Korangi Town Gas Turbine II	Btu/kWh 8,738	8,738
	iv Site Gas Turbine II	Btu/kWh 8,746	8,746
	v Korangi CCPP	Btu/kWh 8,497	8,497

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-20	Mar-21	
		Reference	Current	
3	<u>Calorific Value - Furnace Oil</u>	Btu/kg	40,351	40,351
4	<u>FUEL PRICES</u>			
4a	Fuel Price - Gas	Rs./MMBTU	857	857
4b	Fuel Price - Furnace Oil	Rs./Mton	54,463	72,507
4c	Fuel Price - Furnace Oil	Rs./MMBTU	1,350	1,797
4d	Fuel Price - LNG	Rs./MMBTU	1,312	1,461
5	<u>COST OF FUEL</u>			
5a	<u>Furnace oil</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Milli Rs.	167,022	1,574,918
	Unit 2	Milli Rs.	347,141	1,220,980
	Unit 3	Milli Rs.	-	-
	Unit 4	Milli Rs.	-	-
	Unit 5	Milli Rs.	979,207	1,558,572
	Unit 6	Milli Rs.	-	1,168,205
	<b>Total Cost of Furnace Oil - Bin Qasim - I</b>	<b>Milli Rs.</b>	<b>1,493,370</b>	<b>5,522,676</b>
5b	<u>Gas</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Milli Rs.	-	3,139
	Unit 2	Milli Rs.	-	2,742
	Unit 3	Milli Rs.	-	-
	Unit 4	Milli Rs.	-	-
	Unit 5	Milli Rs.	-	32,907
	Unit 6	Milli Rs.	-	94,406
	<b>Total Cost of Gas - Bin Qasim - I</b>	<b>Milli Rs.</b>	<b>-</b>	<b>133,194</b>
	ii Bin Qasim II - 560 MW	Milli Rs.	-	668,839
	iii Korangi Town Gas Turbine II	Milli Rs.	-	75,279
	iv Site Gas Turbine II	Milli Rs.	-	38,809
	v Korangi CCPP	Milli Rs.	-	125,008
	<b>Total Cost of Gas - KE</b>	<b>Milli Rs.</b>	<b>-</b>	<b>1,041,129</b>
5c	<u>LNG</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Milli Rs.	26,213	11,424
	Unit 2	Milli Rs.	22,974	9,979
	Unit 3	Milli Rs.	-	-
	Unit 4	Milli Rs.	-	-
	Unit 5	Milli Rs.	120,722	119,749
	Unit 6	Milli Rs.	-	343,550
	<b>Total Cost of LNG - Bin Qasim - I</b>	<b>Milli Rs.</b>	<b>169,909</b>	<b>484,702</b>
	ii Bin Qasim II - 560 MW	Milli Rs.	3,504,439	3,313,769
	iii Korangi Town Gas Turbine II	Milli Rs.	20,939	377,425
	iv Site Gas Turbine II	Milli Rs.	0,013	212,332
	v Korangi CCPP	Milli Rs.	251,106	753,186
	<b>Total Cost of LNG - KE</b>	<b>Milli Rs.</b>	<b>3,946,406</b>	<b>5,141,413</b>
	GIDC Arrears billed - Note 1		762,160	762,160
	<b>Total cost of fuel - KE</b>	<b>a</b>	<b>Milli Rs.</b>	<b>6,201,936</b>
6	<b>Variation in Cost of Fuel - KE</b>			
6a	Units Sent Out - KE	GWh	461,414	843,050
6b	Units - Power Purchases	GWh	618,292	725,620
	<b>Total Units Sent Out</b>	<b>b</b>	<b>GWh</b>	<b>1,079,706</b>
6c	Cost per unit	c = a/b	Rs./kWh	5,744
6d	Variation per unit (Cost of Fuel - KE)		Rs./kWh	2,204
6e	Variation amount (Cost of Fuel - KE)		Milli Rs.	<u>3,456,783</u>

Note 1: Instalment of GIDC arrears as per Supreme court order dated November 02, 2020. The amount of GIDC will be paid to SSGC when allowed by NEPRA in tariff.

Work Sheet- Power Purchase O&M and Capacity Cost

DESCRIPTION		Dec-20	Mar-21		
<b>1 POWER PURCHASES</b>					
a	KANUPP	GWh	9.308	15.805	
b	TAPAL	GWh	53.559	70.936	
c	GUL AHMED	GWh	37.999	63.407	
d	CPPA-G	GWh	364.321	421.762	
e	ANOUD POWER	GWh	-	-	
f	INT IND (IIL)	GWh	3.850	6.355	
g	FFBL	GWh	40.107	40.611	
h	SNPC	GWh	63.747	64.528	
i	OURSUN	GWh	7.437	8.820	
j	CPPA-G - 150 MW	GWh	24.511	18.768	
k	GHARO SOLAR	GWh	7.735	10.561	
l	LOTTE	GWh	5.719	4.067	
	<b>TOTAL</b>	<b>GWh</b>	<b>618.292</b>	<b>725.620</b>	
<b>2 COST OF POWER PURCHASES - FUEL COST</b>					
a	KANUPP - Note 1	Mill Rs.	112.674	221.828	
b	TAPAL	Mill Rs.	662.326	1,058.069	
c	GUL AHMED	Mill Rs.	489.240	952.481	
d	CPPA-G - Note 2	Mill Rs.	2,184.505	2,017.288	
e	ANOUD POWER	Mill Rs.	-	-	
f	INT IND (IIL)	Mill Rs.	41.044	67.740	
g	FFBL	Mill Rs.	265.488	382.300	
h	SNPC	Mill Rs.	434.139	441.122	
i	OURSUN	Mill Rs.	-	-	
j	CPPA-G - 150 MW - Note 2	Mill Rs.	146.970	89.769	
k	GHARO SOLAR	Mill Rs.	-	-	
l	LOTTE	Mill Rs.	74.643	59.079	
	<b>TOTAL</b>	<b>Mill Rs.</b>	<b>4,411.029</b>	<b>5,299.675</b>	
<b>3 FUEL COST / UNIT</b>					
a	KANUPP - Note 1	Rs./kwh	12.106	14.035	
b	TAPAL	Rs./kwh	12.366	15.057	
c	GUL AHMED	Rs./kwh	12.875	15.022	
d	CPPA-G - Note 2	Rs./kwh	5.996	4.783	
e	ANOUD POWER	Rs./kwh	-	-	
f	INT IND (IIL)	Rs./kwh	10.662	10.659	
g	FFBL	Rs./kwh	6.520	9.414	
h	SNPC	Rs./kwh	6.810	6.836	
i	OURSUN	Rs./kwh	-	-	
j	CPPA-G - 150 MW - Note 2	Rs./kwh	5.996	4.783	
k	GHARO SOLAR	Rs./kwh	-	-	
l	LOTTE	Rs./kwh	13.052	14.526	
<b>4 VARIATION IN COST OF FUEL - POWER PURCHASES</b>					
4a	Cost of Fuel - Power Purchases	a	Mill Rs.	4,411.029	5,299.675
	Units Sent out:				
	Units Sent Out - KE		GWh	461.414	843.050
	Units - Power Purchases		GWh	618.292	725.620
4b	Total Units Sent Out	b	GWh	<u>1,079.706</u>	<u>1,568.671</u>
4c	Cost per unit	c = a/b	Rs./kwh	4.085	3.378
4d	Variation per unit (Cost of Fuel - Power Purchases)		Rs./kwh		<u>(0.707)</u>
4e	Variation amount (Cost of Fuel - Power Purchases)		Mill Rs.		<u>(1,108.969)</u>

Note 1: Kanupp details are provisional for the month of March-21 as the invoice for the month is yet to be received.

Note 2: CPPA-G's fuel cost for the month of March 2021 is based on NEPRA's determination of fuel cost for the month of February 2021 (latest determined) as the fuel cost for the month of March 2021 is yet to be determined. Further, CPPA-G's cost for the month of December 2020 has been updated based on NEPRA's determination

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For information & n.a. Please

✓ 18/5/21

- SA(Tariff-I)
- Copy to:
- DG (M&E)
- M/F

CC: Chairman KE/BPR/NEPRA/2021/1022  
- M (Tariff) May 7, 2021

Mr. Syed Safer Hussain,  
Registrar,  
National Electric Power Regulatory Authority,  
NEPRA Tower, Attaturk Avenue (East),  
Sector G-5/1,  
Islamabad.

**Subject: Monthly Cost Variation for the month of April 2021 under Multi-Year Tariff 2017 – 2023**

Dear Sir,

This is with reference to the mechanism for monthly and quarterly variations provided in the Multi-Year Tariff Determination of K-Electric Limited (KE) dated July 5, 2018 (MYT), notified vide SRO No. 576 (I)/2019 dated May 22, 2019.

In this regard, please find enclosed calculation of monthly variation for the month of April 2021 along with relevant supports, for Authority's approval. Please note that the calculation for the month of April 2021 is based on CPPA-G's latest fuel cost determined by NEPRA for the month of February 2021 and it is subject to adjustment based on the determination for April 2021 to be issued by NEPRA.

Moreover, fuel cost (own plants) for April 2021 includes impact of GIDC arrears monthly installments for the month of April 2021 amounting to PKR 762 million (excluding taxes) as per Supreme court order dated November 2, 2020 which is to be passed on to consumers.

Summary of Cost variation for the month April 2021 is as below;

Month	Variation Amount (PKR Million)	Variation per unit (PKR / kWh)
April-21.	(1,606)	(0.869)

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 / mark-up / interest. All the requisite details including generation statistic sheets and invoices are enclosed.

#### Heat Rate

In the MYT, NEPRA determined provisional Heat rates for KE's generating plants and directed KE to conduct fresh Heat rate test for its plants, based on which final Heat rates will be determined by NEPRA.

In this regard, NEPRA has issued its decision on Heat rate for BQPS – II plant on January 1, 2020 and accordingly the calculations are based on Heat rates determined therein.

Further, with respect to Heat Rates of KCCP, SGTPS & KGTPS, NEPRA issued its determination on September 2, 2020 and January 18, 2021 respectively, against which KE has filed review motions. The required adjustment will be incorporated after the final heat rates are determined.

Tariff Division Board  
By No. 2939  
Dated 19-5-21

8573  
18-5-2021



Moreover, Heat rate test of BQPS I Plant has been conducted and Independent Engineers' reports have been submitted to NEPRA. The working for required adjustment will be submitted to NEPRA after determination of final Heat rates of BQPS I based on the test results.

Furthermore, KE would humbly request NEPRA for expeditious processing of pending monthly variations for June 2020 to March 2021 and quarterly tariff variations for the period April 2020 to March 2021.

Sincerely,

**Ayaz Jaffar Ahmed**  
Director – Finance & Regulations

**Enclosed:**

- Calculation sheet of monthly variation – April 2021
- Supporting Documents for April 2021



K Electric Limited

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

DESCRIPTION		Unit	Mar-21	Apr-21
			Reference	Current
A)	<b>Cost of fuel:</b>			
	Cost of fuel - KE	Mill Rs.	12,467.377	13,234.430
	Cost of fuel - Power Purchases	a Mill Rs.	5,299.675	6,099.751
	<b>Total</b>	Mill Rs.	<u>17,767.052</u>	<u>19,334.181</u>
B)	<b>Units Sent Out</b>			
	Units Sent Out - KE	GW/h	843.050	953.764
	Units - Power purchases	b GW/h	725.620	895.041
	<b>Total</b>	GW/h	<u>1,568.671</u>	<u>1,848.804</u>
	<b>Cost per unit</b>			
	Cost of fuel - KE	Rs./kWh	7.948	7.158
	Cost of fuel - Power Purchases	c = a/b Rs./kWh	3.378	3.299
	<b>Average</b>	Rs./kWh	<u>11.326</u>	<u>10.458</u>
D)	<b>Variation per unit</b>			
	Cost of fuel - KE	Rs./kWh		(0.789)
	Cost of fuel - Power Purchases	d Rs./kWh		(0.079)
	<b>Total Fuel Cost Adjustment</b>	Rs./kWh		<u>(0.869)</u>
E)	<b>Total Fuel Cost Adjustment</b>	Ps/kWh		<u>(86.85)</u>
F)	<b>Variation amount</b>			
	Cost of fuel - KE	Mill Rs.		(1,459.376)
	Cost of fuel - Power Purchases	e = d x Mill Rs.		(146.342)
	<b>Total Fuel Cost Adjustment</b>	b (total) Mill Rs.		<u>(1,605.718)</u>

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-21	Apr-21
		Reference	Current
<b>1</b>	<b>UNITS SENT OUT</b>		
1a	<b>UNITS SENT OUT ON FURNACE OIL</b>		
i	<b>Bin Qasim - I</b>		
	Unit 1	GWh 81,139	40,677
	Unit 2	GWh 63,802	13,494
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh 84,178	41,813
	Unit 6	GWh 63,433	17,905
	<b>Total units sent out on furnace oil - Bin Qasim - I</b>	<b>GWh 292,551</b>	<b>123,889</b>
1b	<b>UNITS SENT OUT ON GAS</b>		
i	<b>Bin Qasim - I</b>		
	Unit 1	GWh 0,339	16,253
	Unit 2	GWh 0,300	21,384
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh 3,726	29,090
	Unit 6	GWh 10,748	25,836
	<b>Total units sent out on gas - Bin Qasim - I</b>	<b>GWh 15,114</b>	<b>83,564</b>
ii	Bin Qasim II - 560 MW	GWh 93,123	95,042
iii	Korangi Town Gas Turbine II	GWh 10,053	10,324
iv	Site Gas Turbine II	GWh 5,178	6,601
v	Korangi CCPP	GWh 17,167	24,245
	<b>Total units sent out on gas - KE</b>	<b>GWh 140,635</b>	<b>219,785</b>
1c	<b>UNITS SENT OUT ON LNG</b>		
i	<b>Bin Qasim - I</b>		
	Unit 1	GWh 0,724	49,232
	Unit 2	GWh 0,641	64,775
	Unit 3	GWh -	-
	Unit 4	GWh -	-
	Unit 5	GWh 7,957	60,857
	Unit 6	GWh 22,950	78,262
	<b>Total units sent out on LNG - Bin Qasim - I</b>	<b>GWh 32,272</b>	<b>253,127</b>
ii	Bin Qasim II - 560 MW	GWh 270,711	248,158
iii	Korangi Town Gas Turbine I	GWh 29,572	26,971
iv	Site Gas Turbine I	GWh 16,622	17,022
v	Korangi CCPP	GWh 60,688	83,323
	<b>Total units sent out on LNG - KE</b>	<b>GWh 409,864</b>	<b>607,609</b>
1d	<b>UNITS SENT OUT ON HSD</b>		
i	Korangi CCPP - 220 MW	GWh -	2,481
	<b>Total units sent out on HSD</b>	<b>GWh -</b>	<b>2,481</b>
	<b>Total units sent out KE</b>	<b>GWh 843,050</b>	<b>953,764</b>
<b>2</b>	<b>HEAT RATE AT BUS BAR</b>		
i	<b>Bin Qasim - I</b>		
	Unit 1	Btu/kWh 10,802	10,802
	Unit 2	Btu/kWh 10,650	10,650
	Unit 3	Btu/kWh 10,995	10,995
	Unit 4	Btu/kWh 10,899	10,899
	Unit 5	Btu/kWh 10,304	10,304
	Unit 6	Btu/kWh 10,249	10,249
ii	Bin Qasim II - 560 MW	Btu/kWh 8,381	8,381
iii	Korangi Town Gas Turbine II	Btu/kWh 8,738	8,738
iv	Site Gas Turbine II	Btu/kWh 8,746	8,746
v	Korangi CCPP	Btu/kWh 8,497	8,497
vi	Korangi CCPP - HSD - Note 2	Btu/kWh -	9,330

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Mar-21	Apr-21	
		Reference	Current	
3	<u>Calorific Value - Furnace Oil</u>	Btu/kg	40,351	40,351
4	<u>FUEL PRICES</u>			
4a	Fuel Price - Gas	Rs./MMBTU	857	857
4b	Fuel Price - Furnace Oil	Rs./Mton	72,507	75,791
4c	Fuel Price - Furnace Oil	Rs./MMBTU	1,797	1,878
4d	Fuel Price - LNG	Rs./MMBTU	1,461	1,457
4e	Fuel Price - HSD	Rs./MMBTU		2,720
5	<u>COST OF FUEL</u>			
5a	<u>Furnace oil</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Mill Rs.	1,574,918	825,321
	Unit 2	Mill Rs.	1,220,980	489,866
	Unit 3	Mill Rs.	-	-
	Unit 4	Mill Rs.	-	-
	Unit 5	Mill Rs.	1,558,572	809,360
	Unit 6	Mill Rs.	1,158,295	342,677
	<b>Total Cost of Furnace Oil - Bin Qasim - I</b>	<b>Mill Rs.</b>	<b>5,522,676</b>	<b>2,449,224</b>
5b	<u>Gas</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Mill Rs.	3,139	150,458
	Unit 2	Mill Rs.	2,742	195,173
	Unit 3	Mill Rs.	-	-
	Unit 4	Mill Rs.	-	-
	Unit 5	Mill Rs.	32,907	177,409
	Unit 6	Mill Rs.	94,406	226,330
	<b>Total Cost of Gas - Bin Qasim - I</b>	<b>Mill Rs.</b>	<b>133,194</b>	<b>749,970</b>
	ii Bin Qasim II - 560 MW	Mill Rs.	668,839	682,616
	iii Korangi Town Gas Turbine II	Mill Rs.	75,279	77,382
	iv Site Gas Turbine II	Mill Rs.	38,809	49,479
	v Korangi CCPP	Mill Rs.	125,008	176,549
	<b>Total Cost of Gas - KE</b>	<b>Mill Rs.</b>	<b>1,041,129</b>	<b>1,735,996</b>
5c	<u>LNG</u>			
i	<u>Bin Qasim - I</u>			
	Unit 1	Mill Rs.	11,424	774,814
	Unit 2	Mill Rs.	9,979	1,005,083
	Unit 3	Mill Rs.	-	-
	Unit 4	Mill Rs.	-	-
	Unit 5	Mill Rs.	119,749	913,606
	Unit 6	Mill Rs.	343,550	1,168,622
	<b>Total Cost of LNG - Bin Qasim - I</b>	<b>Mill Rs.</b>	<b>484,702</b>	<b>3,862,125</b>
	ii Bin Qasim II - 560 MW	Mill Rs.	3,313,769	3,030,186
	iii Korangi Town Gas Turbine II	Mill Rs.	377,425	343,356
	iv Site Gas Turbine II	Mill Rs.	212,332	216,901
	v Korangi CCPP	Mill Rs.	753,186	771,518
	<b>Total Cost of LNG - KE</b>	<b>Mill Rs.</b>	<b>5,141,413</b>	<b>8,224,086</b>
5d	<u>HSD</u>			
i	Korangi CCPP - note 2	Mill Rs.	-	62,964
	<b>Total Cost of HSD - KE</b>	<b>Mill Rs.</b>	<b>-</b>	<b>62,964</b>
	GIDC Arrears billed - Note 1		762,160	762,160
	<b>Total cost of fuel - KE</b>	<b>a Mill Rs.</b>	<b>12,467,377</b>	<b>13,234,430</b>
6	<u>Variation in Cost of Fuel - KE</u>			
6a	Units Sent Out - KE	GWh	843,050	953,764
6b	Units - Power Purchases	GWh	725,620	895,041
	<b>Total Units Sent Out</b>	<b>b GWh</b>	<b>1,568,671</b>	<b>1,848,804</b>
6c	Cost per unit	c = a/b Rs./kWh	7.948	7.158
6d	<b>Variation per unit (Cost of Fuel - KE)</b>	<b>Rs./kWh</b>		<b>(0.789)</b>
6e	<b>Variation amount (Cost of Fuel - KE)</b>	<b>Mill Rs.</b>		<b>(1,459,376)</b>

Note 1: Installment of GIDC arrears billed by SSGC in as per Supreme court order dated November 02, 2020. The amount of GIDC will be paid to SSGC when allowed by NEPRA in tariff.  
 Note 2: KE has commissioned HSD fuel on Korangi CCPP plant. In this regard, NEPRA is requested to allow fuel cost incurred during commissioning of plant on HSD on actual basis. Moreover, it is further requested to provisionally allow cost of generation on HSD at actual, till the heat rate test is conducted and any adjustment pursuant to final determination will be made with effect from May 2021.

Work Sheet- Power Purchase O&M and Capacity Cost

DESCRIPTION		Mar-21	Apr-21		
		Reference	Current		
<b>1 POWER PURCHASES</b>					
a	KANUPP	GWh	15.805	17.145	
b	TAPAL	GWh	70.936	62.760	
c	GUL AHMED	GWh	63.407	55.510	
d	CPA-G	GWh	421.762	597.902	
e	ANOUD POWER	GWh	-	-	
f	INT IND (IIL)	GWh	6.355	5.309	
g	FFBL	GWh	40.511	39.300	
h	SNPC	GWh	64.528	68.370	
i	OURSUN	GWh	8.820	8.675	
j	CPA-G - 150 MW	GWh	18.768	21.554	
k	GHARO SOLAR	GWh	10.561	10.976	
l	LOTTE	GWh	4.057	7.540	
<b>TOTAL</b>		<b>GWh</b>	<b>725.620</b>	<b>895.041</b>	
<b>2 COST OF POWER PURCHASES - FUEL COST</b>					
a	KANUPP - Note 1	Mill Rs.	221.828	227.563	
b	TAPAL	Mill Rs.	1,068,069	1,306,868	
c	GUL AHMED	Mill Rs.	952.481	899.267	
d	CPA-G - Note 2	Mill Rs.	2,017,288	2,859,765	
e	ANOUD POWER	Mill Rs.	-	-	
f	INT IND (IIL)	Mill Rs.	67.740	56.596	
g	FFBL	Mill Rs.	382.300	369.958	
h	SNPC	Mill Rs.	441.122	467.387	
i	OURSUN	Mill Rs.	-	-	
j	CPA-G - 150 MW - Note 2	Mill Rs.	89.769	103.091	
k	GHARO SOLAR	Mill Rs.	-	-	
l	LOTTE	Mill Rs.	59.079	109.255	
<b>TOTAL</b>		<b>Mill Rs.</b>	<b>5,299.675</b>	<b>6,099.751</b>	
<b>3 FUEL COST / UNIT</b>					
a	KANUPP - Note 1	Rs./kwh	14.035	13.273	
b	TAPAL	Rs./kwh	15.057	16.043	
c	GUL AHMED	Rs./kwh	15.022	16.200	
d	CPA-G - Note 2	Rs./kwh	4.783	4.783	
e	ANOUD POWER	Rs./kwh	-	-	
f	INT IND (IIL)	Rs./kwh	10.659	10.661	
g	FFBL	Rs./kwh	9.414	9.414	
h	SNPC	Rs./kwh	6.836	6.836	
i	OURSUN	Rs./kwh	-	-	
j	CPA-G - 150 MW - Note 2	Rs./kwh	4.783	4.783	
k	GHARO SOLAR	Rs./kwh	-	-	
l	LOTTE	Rs./kwh	14.526	14.490	
<b>4 VARIATION IN COST OF FUEL - POWER PURCHASES</b>					
4a	Cost of Fuel - Power Purchases	a	Mill Rs.	5,299.675	6,099.751
Units Sent out:					
	Units Sent Out - KE		GWh	843.050	953.764
	Units - Power Purchases		GWh	725.620	895.041
4b	Total Units Sent Out	b	GWh	<u>1,568.671</u>	<u>1,848.804</u>
4c	Cost per unit	c = a/b	Rs./kwh	3.378	3.299
4d	Variation per unit (Cost of Fuel - Power Purchases)		Rs./kwh		<b>(0.079)</b>
4e	Variation amount (Cost of Fuel - Power Purchases)		Mill Rs.		<u><b>(146.342)</b></u>

Note 1: Kanupp details are provisional for the month of April-21 as the invoice for the month is yet to be received.

Note 2: CPA-G's fuel cost for the month of April 2021 is based on NEPRA's determination of fuel cost for the month of February 2021 (latest determined) as the fuel cost for the month of April 2021 is yet to be determined.