For Information & n.a. Please 8447an1#=1) Copy to: " DG (MAE) GC: Chairman M/F · M (Tariff)



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

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

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.

Page 1 of 2



🏂 KE House, 39-B, Sunset Boulevard, Phase-II, Defence Housing Authority, Karachi 🖷 www.ke.com.pk - 🛇 92-21-3263-7133, 92-21-3870-9132, UAN: 111-537-211



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
	and golden't part the desires mark ? ?			,	Reference	Current
A)	Cost of fuel:	*				
	Cost of fuel - KE			Mill Rs.	6,201.936	6,834.763
	Cost of fuel - Power Purchases		a.	Mill Rs.	3,346.096	4,397.395
	Total		<u></u>	Mill Rs.	9,548.032	11,232.158
B)	Units Sent Out					
	Units Sent Out - KE		f	GWh	461.414	447.715
	Units - Power purchases		b	GWh	618.292	590.225
	Total			GWh _	1,079.706	1,037.940
4.	Cost per unit					
\$ 100°	Cost of fuel - KE			Rs./kWh	5.744	6.585
	Cost of fuel - Power Purchases		c = a/b	Rs./kWh	3.099	4.237
	Average			Rs./kWh	8.843	10.822
D)	Variation per unit					
-,	Cost of fuel - KE			Rs./kWh		0.841
	Cost of fuel - Power Purchases		d	Rs./kWh		1.138
	Total Fuel Cost Adjustment			Rs./kWh	-	1.978
E)	Total Fuel Cost Adjustment			Ps/kWh		197.84
•				1 3, 1111	· -	. 257.04
F)	Variation amount		* C			
	Cost of fuel - KE			Mill Rs.		872.736
	Cost of fuel - Power Purchases		e≖dx	Mill Rs.		1,180.735
	Total Fuel Cost Adjustment		b (total)	Mill Rs.	_	2,053.471

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION	[Dec-20	Jan-21
	~	Current	Current
UNITS SENT OUT			
1a UNITS SENT OUT ON FURNACE OIL			
Bln Qasim - I			
Unit 1	GWh	11.456	65.28
Unit 2	GWh	24.150	69.73
Unit 3	GWh		-
- Unit 4	GWh	-	-
Unit 5	GWh	70.408	8.99
Unit 6	GWh	,	54.43
Total units sent out on furnace oil - Bin Qasim - I	GWh -	106.013	198.44
16 UNITS SENT OUT ON GAS			
i Bin Qasim - I			
Unit 1	GWh	_	
Unit 2	GWh		
Unit 3	GWh		_
Unit 4	GWh		
	GWh		
Unit 5	GWh	•	-
Unit 6	-		
Total units sent out on gas - Bin Qasini - I	GWh	•	•
li 8In Qasim II - 560 MW	GWh		
ili Korangi Town Gas Turbine II	GWI ₁	•	-
ly Site Gas Turbine II	GWh	-	-
v Korangi CCPP	GWh	•	-
Total units sent out on gas - KE	GWh -		-
1c UNITS SENT OUT ON ING			
Bin Qasim - I			
Unit 1	GWh	1.849	0.93
Unit 2	GWh	1.644	10.99
Unit 3	6Wh		
Unit 4	GWh		
Unit S	GWh	8.928	0.39
Unit 6	GWI;		42.90
. Total units sent out on LNG - 8in Qasim - 1	GWh _	12.421	55.23
li Bin Qasim II 560 MW	GWh	318.635	133.8
iii Korangi Yown Gas Turbine II	GWh	1.826	19.7
lv Site Gas Turbine II	GWh	0.001	10.5
v Korangi CCPP	GWh	22.519	29.9
Total units sent out on ING - KE	GWh	355.401	249.2
Total units sent out KE	GWh _	461.414	447.71
HEAT RATE AT BUS BAR			
i <u>Blo Qaşlını - I</u>			
Unit 1	8to/kWh	10,802	10,80
Unit 2	Btu/kWh	10,650	10,50
Unit 3			-
Unit 4	Btu/kWh	10,996	10,99
	Btu/kWh	10,899	10,89
Unit 5	Btu/kWh	10,304	10,30
Unit 6	Btu/kWh	10,249	16,24
ii Bin Qasim II - 560 MW	Bto/kWh	8,381	8,38
iii Korangl Town Gas Turbine it	Btu/kWh	8,738	8,7
to the termination of	Btu/kWh	8,746	8,74
iv' Site Gas Turbine II	DCU/KTVII	-,	-,-

Work She	eet-	Gener	ation	ruei	COSE	Varia	tion

ï	ork Sheet- Generation Fuel Cost Variation DESCRIPTION		Dec-20	Jan-21
L		<u>~</u>	Current	Current
			curcin	Current.
3	Calorific Value - Furnace Oll	Btu/kg	40,351	40,351
4	FUEL PRICES -			
	4a Fuel Price - Gas	Rs./MM8	าน 857	857
	4b Fuel Price - Furnace Oil	Rs./Mtd	n 54,463	58,864
	4c Fuel Price - Furnace Oil	Rs./MMB	TU 1,350	1,459
	4d Fuel Price - i.NG	Rs /MMB	TÚ 1,312	1,362
5	COST OF FUEL		**	
	5a Furnace oll			
	i Bin Qasim - I			
	Unit 1	MIII Rs	. 167.022	1,028.801
	tfnlt 2	Mill Rs	. 347.141	1,083,341
	Unit 3	Mill Rs		i.e
	Unit 4	Mill Rs		•
	Unit 5	Mill Rs		135,201
	Unit 6	Mill Rs		813.842
	Total Cost of Furnace Oil - Bin Qasim - I	Mill Rs	. 1,493,370	3,061,185
	Sh Ges			
	i <u>Bin Qaslm - I</u>			
	Unit 1	Mill Rs		-
	Unit 2	Mill Rs		
	Unit 3	Mill Rs		
	Unit 4 Unit 5	Mili Rs Mili Rs		•
	Unit 6	Mill Rs		
	Total Cost of Gas - Bin Qasim - I	Mill Rs		
	ii Bin Qasim II - 560 MW	Mili Rs		
	lii Korangi Town Gas Turbine II	Mill Rs Mill Rs		-
	(v. Site Gas Turbine II v. Korangi CCPP	Mill Rs		-
	Total Cost of Gas - KE	Mill Rs		•
	Sc LNG			
	i Bln Qasim · l			
	Unit 1	Mili Rs	26.213	13.593
	Unit 2	Mili Rs		159.491
	Unit 3	Mili Rs		-
	Unit 4	Mill Rs		- '
	Unit 5	Mill Rs	. 120.722	5.531
	Unit 6	Mili Rs		598.7,78
	Total Cost of LNG - Bin Qaslm - 1	Mill Rs	169.909	777.394
	ii Bin Qasim II - 560 MW	Mill Rs	3,504.439	1,527.585
	iil Korangl Town Gas Turbine II	Mill Rs		234.590
	iv Site Gas Turbine II	Mill Rs	. 0.013	125.301
	v Korangi CCPP	Mill Rs	. 251.106	346.549
	Total Cost of LNG - KE	Mill R	3,946.406	3,011.419
	GIDC Arrears billed - Note 1		762.160	762,160
	Total cost of fuel - KE	a Mili Re	6,201.936	6,834.763
6	Variation in Cost of Fuel - KE			
	6a Units Sent Out - KE	GWh	461.414	447.715
	6b Units - Power Purchases	GWh	618.292	590.225
	Total Units Sent Out	b GWh	1,079.706	1,037.940
	6c Cost per unit	c=ə/b Rs./kW	h	6.585
	6d Variation per unit (Cost of Fuel - KE)	Rs./kW	ń .	0.841
	6e Variation amount (Cost of Fuel - KE)	Mill R	i.	872.736

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.

DESCRIPTION			Dec-20	Jan-21
	- 1			
BOWER BURCHASES				
B POWER PURCHASES B KANUPP		GWh	9.308	14.675
6 TAPAL		GWh	53.559	60.26
c GUL AHMED		GWh	37.999	55.10
d CPPA-G		GWh	364.321	350.90
taration manager		GWh	304.321	3.30.50
		GWh	3.850	0.64
f INT (ND (IIL)		GWh	40.107	20.47
g FFBL				
h SNPC		GWh	63.747	53.10
I OURSUN		GWh .	7.437	7.43
j CPPA-G - 150 MW		GWh	24.511	13.53
k GHARO SOLAR		GWh	7.735	8:03
1 LOTTE		GWh	5.719	6.06
TOTAL		GWh	618 292	590.22
COST OF POWER PURCHASES - FUEL COST				
a KANUPP - Note 1		Mill Rs.	112.674	205.49
b TAPAL		Mill Rs.	662.326	741.51
c GULAHMED		Mill Rs.	489.240	679.90
d CPPA-G - Note 2		Mill Rs.	1,186.703	2,104.07
e ANOUD POWER .		Mill Rs.	-	
F INT IND (III.)		Mill Rs.	41.644	6.85
g FFBI		Mill Rs.	265.488	135.50
h SNPC		Mill Rs.	434.139	360.82
i OURSUN		Mill Rs		505.00
J CPPA-G 150 MW - Note 2		Mill Rs.	79.839	81.14
k GHARO SOLAR		Mill Rs.	, , , , , ,	
I LOTTE .		Mill Rs.	74.643	82.07
TOTAL		Mill Rs.	3,346.096	4,397.39
FUEL COST / UNIT				
a KANUFP · Note 1		Rs./kwh	12.106	14.00
b TAPAL		Rs./kwh	12.366	12.30
c GULAHMED		Rs./kwh	12.875	12.53
d CPPA-G Note 2		Rs./kwh	3.257	5.99
e ANOUD POWER		Rs./kwh	3.237	5.02
f INT INO (III.)		Rs./kwh		
			10.662	10.65
8 FFBL		Rs./kwh	6.620	6.62
h SNPC		Rs./kwh	6.810	6.79
i OURSUN		Rs./kwh	n new	e oc
j CPPA-G - 150 MW - Note 2		Rs./kwh	3.257	5.99
k GHARO SOLAR		Rs./kwh	13.000	47.57
LOTTE		Rs./kwh	13.052	13.59
VARIATION IN COST OF FUEL - POWER PURCHASES				
4a Cost of Fuel - Power Purchases	a	Mill Rs.	3,346.096	4,397.39
Units Sent out:				
Units Sent Out - KE		GWh	461.414	447.7
Units - Power Purchases		.GWh	618.292	590.2
4b Total Units Sent Out	ь	GWh	1,079.706	1,037.9
4c Cost per unit	c = a/b	Rs./kwh	3.099	4.33
4d Variation per unit (Cost of Fuel - Power Purchases)	C - 4/4		. 3.099	4.23
-a variation has must froze of their - howes unicusses)		Rs./kwh		1.13
4e Variation amount (Cost of Fuel - Power Purchases)		LAND D-		1 100 77
		Mill Rs.	· <u>-</u>	1,180.73

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 And Gra SA(Tartff-I) Copy to CC: Chairman DG (M& M (Tariff Ref No. KE/BPR National Electric Power Regulatory Authority, NEPRA Tower, Attaturk Avenue (East),

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

Dear Sir,

Registrar,

Sector G-5/1. Islamabad.

Mr. Syed Safeer Hussain,

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.



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 January 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 February 2021
- Supporting Documents for February 2021

K Electric Limited

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

	DESCRIPTION		Unit	Dec-20	Feb-21
				Reference	Current
A)	Cost of fuel:				
	Cost of fuel - KE		Mill Rs.	6,201.936	9,727.643
	Cost of fuel - Power Purchases	а	Mill Rs.	4,411.029	3,973.972
	Total		Mill Rs.	10,612.965	13,701.615
B)	Units Sent Out				
•	Units Sent Out - KE		GWh	461.414	636.809
	Units - Power purchases	b	GWh _	618.292	474.966
	Total		GWh _	1,079.706	1,111.775
C) _	Cost per unit				
``(E	Cost of fuel - KE		Rs./kWh	5.744	8.750
	Cost of fuel - Power Purchases	c = a/b	Rs./kWh	4.085	3.574
·	Average		Rs./kWh	9.829	12.324
D)	Variation per unit				
U,	Cost of fuel - KE		Rs./kWh		3.006
	Cost of fuel - Power Purchases	d	Rs./kWh		(0.511)
	Total Fuel Cost Adjustment	l "	Rs./kWh	_	2.495
	rotarraer cost najastinent	<u> </u>	N3./KVVII	=	
E)	Total Fuel Cost Adjustment		Ps/kWh	_	249.46
F)	Variation amount				
•	Cost of fuel - KE		Mill Rs.		3,341.498
	Cost of fuel - Power Purchases	e = d x	Mill Rs.		(568.073)
	Total Fuel Cost Adjustment	b (total)	Mill Rs.	_	2,773.425

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-20	Feb-21
		Current	Current
UNITS SENT OUT			
1a UNITS SENT OUT ON FURNACE OIL			
Bin Qasim - I			
Unit 1	GWh	11.456	74.15
Unit 2	GWh	24.150	42.0€
Unit 3	GWħ.	•	-
Unit 4	GWh	•	•
Unit 5	GWh	70.408	30.6€
Unit 6 Total units sent out on furnace oil - Bin Qasim - I	GWh GWh	106.013	50.38 19 7.2 6
15 HANTS SENT OUT ON CAS			
1b UNITS SENT OUT ON GAS i Bin Qasim - I			
Unit 1	GWh	_	-
Unit 2	G₩h	_	-
Unit 3	GWh		_
Unit 4	GWh	-	_
Unit 5	GWh	_	
Unit 6	GWh		
Total units sent out on gas - Bin Qasim - I	GWh	-	
ii Bin Qasim II - 560 MW	GWh	-	
iii Korangi Town Gas Turbine II	GWh	-	-
iv Site Gas Turbine II	GWh		
v Korangi CCPP	GWh	-	-
Total units sent out on gas - KE	GWh -	-	-
1¢ UNITS SENT DUT ON LNG			
i <u>Bin Qasim - I</u>			
Unit 1	GWh	1.849	1.28
Unit 2	GWh	1.644	0.68
Unit 3	GWh	•	-
Unit 4	GWh	-	-
Unit 5	GWh	8.928	12.35
Unit 6	GWh _	-	35.64
Total units sent out on ENG - Bin Qasim - (еWh	12.421	49.57
ii Bin Qasim II - 560 MW	GWh	318.635	329.64
iii Korangi Town Gas Turbine II	GWh	1.826	25.82
iv Site Gas Turbine II	GWh	0.001	10.30
v Korangi CCPP	GWh	22.519	23.79
Total units sent out on LNG - KE	GWh -	355.401	439.54
Total units sent out KE	GWh =	461.414	636.80
HEAT RATE AT BUS BAR			
Bin Qasim - I			
Unit 1	Btu/kWh	10,802	10,80
Unit ?	Btu/kWh	10,650	10,65
Unit 3	Btu/kWh	10,996	10,99
Unit 4	Btu/kWh	10,899	10,89
Unit 5	Btu/kWh	10,304	10,30
Unit 6	Btu/kWh	10,249	10,24
ii Bin Qasim II - 360 MW	Btu/kWh	8,381	5,38
iii Korangi Town Gas Turbine II	Btu/kWh	8,738	B,738
			-, -
iv Site Gas Turbine II	Btu/kWh	8,746	8,746

Work Sheet- Generation Fuel Cost Variation

## Fuel Price - Furnace Oil	<u> 4 4 1 4 4</u> 4 65 9 67 11	DESCRIPTION	<u></u>	<u> </u>	Dec-20	Feb-21
PUEL PRICES				•	Current	Current
PUEL PRICES						40.35
Bin Qasim September Sept	Calorific Value - Furnace Oil			Btu/kg	40,351	40,35
Re Price - Gas Re MMBTU 837 84 The Price - Furnace Oil Re May MMBTU 1,350 1,5 Ad Fuel Price - Furnace Oil Re MMBTU 1,350 1,5 Ad Fuel Price - LING Re MMBTU 1,312 1,4 COST OF FUEL Sa Furnace Oil Re MMBTU 1,312 1,4 COST OF FUEL Sa Furnace Oil Re MMBTE Re MMBTE	FUEL PRICES			5 55	t general	
## Fuel Price - Furnace Oil				Rs /MMRTH	857	. 85
4c Fuel Price - Furnace Oil 4d Tuel Price - LING COST OF FUEL Sa Furnace coll 1						
Ad Fuel Price - LING						
Sa Euroace of Sin Casim						1,49
Sa Euroace of Sin Casim						
Bin Qasim - Unit 1				**		
Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of Furnace Oil - Bin Qasim - I Unit 1 Unit 2 Unit 3 Unit 6 Unit 6 Unit 6 Unit 6 Unit 7 Unit 9 Unit 1 Unit 1 Unit 1 Unit 2 Unit 2 Unit 3 Unit 4 Unit 2 Unit 3 Unit 4 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of Gas - Bin Qasim - I II Bin Qasim II - 560 MW II Rs. Sc LNG I Bin Qasim II Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of Gas - Received II II Bin Qasim II Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of Gas - Bin Qasim - I II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II V Korangil CCPP Total Cost of Gas - KE Mill Rs. Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 II Bin Qasim II II Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 II Bin Qasim II Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Unit 5 Unit 6 II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Unit 5 Unit 6 II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Unit 5 Unit 6 II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW II Krangil Town Gas Turbine II II Bin Qasim II - 560 MW						
Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Unit 7 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 3 Unit 4 Unit 5 Unit 6 Unit 6 Unit 6 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Unit 6 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 8 Unit 8 Unit 9 Unit 1 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 1 Unit 2 Unit 3 Unit 4 Unit 4 Unit 5 Unit 6 Unit 6 Unit 8 Unit 9 Un				Mili Rs	167 022	1.265.98
Unit 3 Unit 4 Unit 5 Unit 5 Unit 6 Unit 5 Unit 6 Unit 6 Unit 6 Total Cost of Furnace Oil - Bin Qasim - I So Gas I Bin Qasim - I Unit 1 Unit 2 Unit 2 Unit 3 Unit 4 Unit 2 Unit 3 Unit 4 Unit 5 Unit 4 Unit 5 Unit 6 Total Cost of Gas - Bin Qasim - I II Bin Qasim II - 550 MW III Rs. II Bin Qasim II - 550 MW III Rs. Vorrangi Town Gas Turbine II Vorrangi CCPP Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 II Bin Qasim II - 550 MW III Rs. II Bin Qasim II - 550 MW III Rs. II Bin Qasim II - 500 MW II Bin Qasim II		•				
Unit 4 Unit 5 Unit 6 Unit 7 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 3 Unit 6 Unit 6 Unit 6 Unit 7 Unit 1 Unit 6 Unit 6 Unit 6 Unit 7 Unit 7 Unit 8 Unit 8 Unit 9 Unit 1 Unit 9 Unit 9 Unit 1 Unit 9 Unit 1 Unit 9 Unit 1 Unit 1 Unit 1 Unit 9 Unit 9 Unit 9 Unit 1 Un					347.442	
Unit 5 Unit 6 Unit 6 Unit 6 Unit 6 Total Cost of Furnace Oil - Bin Qasim - I Bin Qasim - I Unit 1 Unit 2 Unit 2 Unit 3 Unit 4 Unit 5 Unit 4 Unit 5 Unit 6 Total Cost of Gas - Bin Qasim - I Bin Qasim I - S60 MW iii Korangi Town Gas Turbine II V Korangi CCPP Mill Rs. Sc LNG Bin Qasim - I Unit 1 Unit 2 Unit 3 Will Rs. Iii Bin Qasim I - S60 MW iii Korangi Town Gas Turbine III V Korangi CCPP Mill Rs. Sc LNG Bin Qasim - I Unit 1 Unit 2 Unit 3 Will Rs. I Will						_
Unit 6			-		979.207	499.46
Total Cost of Furnace Oil - Bin Qasim - I Mill Rs. 1,493.370 3,289.75						
Bin Qasim - Unit 1	· ·	I - Bin Qasim - I		-	1,493.370	3,289.70
Bin Qasim - Unit 1						
Unit 1	_ :					
Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Unit 7 Unit 7 Unit 8 Unit 8 Unit 8 Unit 8 Unit 8 Unit 9 Unit 10 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 1 Unit 2 Unit 3 Unit 4 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of LNG - Bin Qasim - I II Bin Qasim II - 560 MW III Rs. Unit 6 Unit 7 Unit 8 Unit 8 Unit 9 Unit 9 Unit 9 Unit 1 Unit 9 Unit 9 Unit 1 Unit 9 Unit 9 Unit 9 Unit 9 Unit 9 Unit 1 Unit 9 Uni				Mill Rs		
Unit 3 Unit 4 Unit 5 Unit 5 Unit 6 Mill Rs. Unit 6 Total Cost of Gas - Bin Qasim - I ii Bin Qasim II - 560 MW iii Korangi Town Gas Turbine II V Korangi CCPP Mill Rs. 5c LNG i Bin Qasim - I Unit 1 Unit 2 Mill Rs. Unit 2 Unit 3 Mill Rs. Unit 4 Unit 5 Unit 5 Unit 6 Total Cost of Gas - KE Mill Rs. Discovery Mill Rs.						
Unit 4 Unit 5 Unit 5 Unit 6 Unit 6 Unit 6 Total Cost of Gas - Bin Qasim - I ii Bin Qasim II - 560 MW iii Korangi Town Gas Turbine II iv Site Gas Turbine II Unit 1 Unit 1 Unit 1 Unit 2 Unit 1 Unit 2 Unit 3 Unit 4 Unit 4 Unit 5 Unit 6 Total Cost of LNG - Bin Qasim - I ii Bin Qasim II - 560 MW iii Korangi CCPP Total Cost of Gas - KE Sc LNG Iii Bin Qasim II - S60 MW Iii Rs.					_	
Unit 5 Unit 6 Unit 6 Total Cost of Gas - Bin Qasim - I ii Bin Qasim II - 560 MW iii Korangi Town Gas Turbine II v Site Gas Turbine II u Nill Rs. Total Cost of Gas - KE Mill Rs. Total Cost of LNG - Bin Qasim - I Mill Rs. Total Cost of LNG - Bin Qasim - I Mill Rs. Total Cost of LNG - Bin Qasim - I Mill Rs. Total Cost of LNG - Bin Qasim - I Mill Rs. Total Cost of LNG - Bin Qasim - I Mill Rs. Total Cost of LNG - Bin Qasim - I Mill Rs. Total Cost of LNG - Bin Qasim - I Mill Rs. Total Cost of LNG - Bin Qasim - I Bin LNG - Cost Din Ril				=	_	
Unit 6 Total Cost of Gas - Bin Qasim - I ii Bin Qasim II - 560 MW iii Korangi Town Gas Turbine II Vi Site Gas Turbine II Vi Korangi CCPP Mill Rs. Total Cost of Gas - KE Mill Rs. Z0.77 Mill Rs. Z0.77 Mill Rs. Z0.77 Mill Rs. Lunit 2 Unit 3 Unit 4 Unit 5 Unit 6 Mill Rs. Lunit 6 Mill Rs. Lunit 6 Total Cost of LNG - Bin Qasim - I Mill Rs. Mill Rs. Loo. 722 190.4 Mill Rs. 169.909 768.59 Will Korangi Town Gas Turbine II Will Krs. Will Rs. J0.939 J37.59 Will Korangi Town Gas Turbine II Will Rs. Mill Rs. J0.013 J34.71 V Korangi CCPP Mill Rs. Mill Rs. J3.504.439 4.132.33 Will Krs. J3.504.439 Mill Rs. J3.504.439 Mill R					_	
Total Cost of Gas - Bin Qasim - I					_	
ii Bin Qasim II - 560 MW iii Korangi Town Gas Turbine II v Site Gas Turbine II v Korangi CCPP Mill Rs. Total Cost of Gas - KE Mill Rs. Lunit 1 Lunit 2 Lunit 2 Lunit 3 Lunit 4 Lunit 5 Lunit 6 Total Cost of LNG - Bin Qasim - I Mill Rs. Lunit 6 Total Cost of LNG - Bin Qasim - I Mill Rs. Lunit 7 Lunit 8 Lunit 9		asim - I		_	•	
iii Korangi Town Gas Turbine II						
V Site Gas Turbine I					=	-
V Korangi CCPP Mill Rs. - - - - Total Cost of Gas - KE Mill Rs. - - - - Sc LNG Bin Qasim - I Mill Rs. 26.213 20.7° 10.8° Unit 1 Mill Rs. 22.974 10.8° Unit 2 Mill Rs. 2.2.974 10.8° Unit 3 Mill Rs. 2.2.974 10.8° Unit 4 Mill Rs. . - - - Unit 5 Mill Rs. . . -	-				-	
Total Cost of Gas - KE					-	-
Sc LNG	v Korangi CCPP			Mill Rs.	•	•
Bin Qasim - Unit 1	Total Cost of Gas - KE			Mill Rs.	-	-
Unit 1 Unit 2 Unit 2 Unit 3 Unit 3 Unit 4 Unit 4 Unit 5 Unit 5 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 8 Unit 8 Unit 9 Unit 8 Unit 9 Unit 9 Unit 8 Unit 8 Unit 9 Un	Sc <u>LNG</u>					
Unit 2 Mill Rs. 22.974 10.8 Unit 3 Mill Rs	i Bin Qasim - I					
Unit 3 Unit 4 Unit 5 Unit 5 Unit 6 Unit 6 Unit 7 Unit 7 Unit 6 Unit 8 Unit 8 Unit 8 Unit 6 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 8 Unit 8 Unit 8 Unit 8 Unit 8 Unit 9 Unit 8 Unit 9 Un	Unit 1					
Unit 4 Mill Rs. 120.722 190.4 Unit 5 Mill Rs. 120.722 190.4 Unit 6 Mill Rs. - 546.5 Total Cost of LNG - Bin Qasim - I Mill Rs. 169.909 768.5 ii Bin Qasim II - S60 MW Mill Rs. 3,504.439 4,132.3 iii Korangi Town Gas Turbine II Mill Rs. 20.939 337.50 iv Site Gas Turbine II Mill Rs. 0.013 134.7 v Korangi CCPP Mill Rs. 251.106 302.4 Total Cost of LNG - KE Mill Rs. 3,946.406 5,675.7 GiDC Arrears billed - Note 1 762.160 762.16 Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.6 Variation in Cost of Fuel - KE GWh 461.414 636.8 6b Units - Power Purchases GWh 618.292 474.9 Total Units Sent Out b GWh 1,079.706 1,111.7 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	Unit 2				22.974	10.86
Unit 5 Unit 6 Unit 6 Unit 6 Total Cost of LNG - Bin Qasim - I Bin Qasim II - 560 MW Will Rs. I Bin Qasim I	Unit 3				•	-
Unit 6 Total Cost of LNG - Bin Qasim - I ii Bin Qasim II - S60 MW iii Korangi Town Gas Turbine II ii Korangi Town Gas Turbine II ii Korangi Town Gas Turbine II ii Korangi CCPP Mili Rs. 20,939 337.55 iv Site Gas Turbine II v Korangi CCPP Mili Rs. 251.106 302.46 Total Cost of LNG - KE Mili Rs. 3,946.406 5,675.77 GIDC Arrears billed - Note 1 Total cost of fuel - KE a Mili Rs. 6,201.936 9,727.66 Variation in Cost of Fuel - KE Ga Units Sent Out - KE Ga Units Sent Out - KE Gb Units - Power Purchases Total Units Sent Out b GWh 1,079.706 1,111.77 Gc Cost per unit C = a/b Rs./kWh 5.744 8.75 Gd Variation per unit (Cost of Fuel - KE) Rs./kWh 3.06	Unit 4				-	
Total Cost of LNG - Bin Qasim - I Mill Rs. 169.909 768.51 ii Bin Qasim II - 560 MW Mill Rs. 3,504.439 4,132.31 iii Korangi Town Gas Turbine II Mill Rs. 20,939 337.51 iv Site Gas Turbine II Mill Rs. 0.013 134.71 v Korangi CCPP Mill Rs. 251.106 302.41 Total Cost of LNG - KE Mill Rs. 3,946.406 5,675.77 GIDC Arrears billed - Note 1 762.160 762.16 Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.64 Variation in Cost of Fuel - KE GWh 461.414 636.88 Gu Units Sent Out - KE GWh 618.292 474.99 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.06 30.86 30.87 30.87 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.06 30.87 30.87 30.87 30.87 30.87 30.87 30.88 30.88 30.88 40.88 40.88 40.88 40.88 40.88 40.88 40.88 40.88	Unit 5				120.722	
ii Bin Qasim II - 560 MW Mill Rs. 3,504.439 4,132.35 iii Korangi Town Gas Turbine II Mill Rs. 20,939 337.51 iv Site Gas Turbine II Mill Rs. 0.013 134.71 v Korangi CCPP Mill Rs. 251.106 302.40 Total Cost of LNG - KE Mill Rs. 3,946.406 5,675.71 GIDC Arrears billed - Note 1 762.160 762.160 762.16 Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.60 Variation in Cost of Fuel - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.90 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00		•		_		
iii Korangi Town Gas Turbine II Mili Rs. 20.939 337.50 iv Site Gas Turbine II Mili Rs. 0.013 134.71 v Korangi CCPP Mill Rs. 251.106 302.40 Total Cost of LNG - KE Mill Rs. 3,946.406 5,675.77 GiDC Arrears billed - Note 1 762.160 762.160 762.16 Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.60 Variation in Cost of Fuel - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.90 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	Total Cost of LNG - Bin C	asim - I		Mili Rs.	169.909	768.5
iii Korangi Town Gas Turbine II Mili Rs. 20.939 337.50 iv Site Gas Turbine II Mili Rs. 0.013 134.71 v Korangi CCPP Mill Rs. 251.106 302.40 Total Cost of LNG - KE Mill Rs. 3,946.406 5,675.77 GiDC Arrears billed - Note 1 762.160 762.160 762.16 Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.60 Variation in Cost of Fuel - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.90 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	ii Bin Qasim II - 560 MW	•		Mill Rs.	3,504.439	4,132.35
iv Site Gas Turbine II v Korangi CCPP MiII Rs. 0.013 134.7: v Korangi CCPP MiII Rs. 251.106 302.4: v Korangi CCPP MiII Rs. 251.106 302.4: Total Cost of LNG - KE MIII Rs. 3,946.406 5,675.7: GIDC Arrears billed - Note 1 762.160 762.16: Variation in Cost of fuel - KE a MiII Rs. 6,201.936 9,727.6: Variation in Cost of Fuel - KE GWh 461.414 636.8: GWh 618.292 474.9: Total Units Sent Out - KE GWh 1,079.706 1,111.7: 6c Cost per unit c = a/b Rs./kWh 5.744 8.75: GW Variation per unit (Cost of Fuel - KE) Rs./kWh 3.06: GWh 3.06: GW	•				•	337.50
v Korangi CCPP Mill Rs. 251.106 302.40 Total Cost of LNG - KE Mill Rs. 3,946.406 5,675.77 GIDC Arrears billed - Note 1 762.160 762.10 762.10 Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.60 Variation in Cost of Fuel - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.90 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	-				0.013	134.79
GIDC Arrears billed - Note 1 762.160 762.160 Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.66 Variation in Cost of Fuel - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.90 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00				Mill Rs.	251.106	302.46
Total cost of fuel - KE a Mill Rs. 6,201.936 9,727.66 Variation in Cost of Fuel - KE GWh 461.414 636.86 6a Units Sent Out - KE GWh 618.292 474.91 6b Units - Power Purchases GWh 618.292 474.91 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	Total Cost of LNG - KE			Mill Rs.	3,946.406	5,675.77
Variation in Cost of Fuel - KE GWh 461.414 636.86 6a Units Sent Out - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.91 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	GIDC Arrears billed - Note 1				762.160	762.16
6a Units Sent Out - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.90 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	Total cost of fuel - KE		a	Miil Rs.	6,201.936	9,727.64
6a Units Sent Out - KE GWh 461.414 636.80 6b Units - Power Purchases GWh 618.292 474.90 Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00	Variation in Cost of Fuel - KE					
6b Units - Power Purchases Total Units Sent Out GWh GWh GWh I,079.706 618.292 474.90 6c Cost per unit c = a/b Rs./kWh 5.744 8.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00				GWh	461.414	636.80
Total Units Sent Out b GWh 1,079.706 1,111.77 6c Cost per unit c = a/b Rs./kWh 5.744 B.75 6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00						474.96
6d Variation per unit (Cost of Fuel - KE) Rs./kWh 3.00			ь	_		1,111.77
	6c Cost per unit	·	c = a/b	Rs./kWh	5.744	8.75
Co. Manifelian annual (Cost of Final 1981)	6d Variation per unit (Cost of F	uel - KE)		Rs./kWh		3.00
NO MATTERIOR STROUGH (I OST OT BILD) . EPI RANK UF ZATA AL	6e Variation amount (Cost of Fe	uel - KF)		Mill Rs.	_	3,341.49

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.

	heet- Power Purchase O&M and Capacity Cost DESCRIPTION			Dec-20	Feb-21
	. DESCRIPTION	_		1 Dec-20 1	TCD-L1
			•		· '
PO	OWER PURCHASES				
<u></u>	KANUPP		GWh	9.308	
b	TAPAL		GWh	53.55 9	61.92
	GUL AHMED		GWh	37.999	51.69
c	CPPA-G		GWh	364,321	235.42
d			GWh	304.521	233.42
e	ANOUD POWER			2.050	2.38
f	INT IND (IIL)		GWh	3.850	
g	FFBL		GWh	40.107	36.6
h	SNPC		GWh	63.747	53.0
i	OURSUN		GWh	7.437	7.3
j	CPPA-G - 150 MW		GWh	24.511	12.99
k	GHARO SOLAR		GWh	7.735	8.3
I	ιοπε		GWh	5.719	5.1
	TOTAL		GWh	618.292	474.96
co	DST OF POWER PURCHASES - FUEL COST				
а	KANUPP - Note 1		Mill Rs.	112.674	
b	TAPAL		Mill Rs.	662.326	826.89
Ċ	GUL AHMED		Mili Rs.	489.240	685.6
d	CPPA-G - Note 2		Mill Rs.	2,184.505	1,566.2
e	ANOUD POWER		Mill Rs.	-	
f	INT IND (IIL)		Mill Rs.	41.044	25.4
g	FFBL		Mill Rs.	265.488	345.2
ь	5NPC		Mill Rs.	43 4 .139	360.9
	OURSUN		Mill Rs.	434.133	500.5.
į,			Mill Rs.	146.070	86.4
j	CPPA-G - 150 MW - Note 2			146.970	00.4
k I	GHARO SOLAR LOTTE		Mill Rs. Mill Rs.	- 74.643	- 77.0
	TOTAL		Mill Rs.	4,411.029	3,973.9
	EL COST / UNIT KANUPP - Note 1		Rs./kwh	12.106	_
a					12.2
	TAPAL		Rs./kwh	12.366	13.3
c	GUL AHMED		Rs./kwh	12.875	13.2
d	CPPA-G - Note 2		Rs./kwh	5.99 6	6.6
e	ANOUD POWER		Rs./kwh	-	-
f	INT IND (IIL)		Rs./kwh	10.662	10.6
g	FFBL		Rs./kwh	6.620	9.4
h	SNPC		Rs./kwh	6.810	6.B
i	OURSUN		Rs./kwh	•	-
í	CPPA-G - 150 MW · Note 2		Rs./kwh	5.996	6.6
k	GHARO SOLAR		Rs./kwh	•	
ł	ιοπε		Rs./kwh	13.052	14.8
<u>VA</u>	RIATION IN COST OF FUEL - POWER PURCHASES				
4a	Cost of Fuel - Power Purchases	a	Mill Rs.	4,411.029	3,973.9
	Units Sent out:				
	Units Sent Out - KE		G W h	461.414	636.8
	Units - Power Purchases		GWh	618.292	474.9
4b	Total Units Sent Out	Ь	GWh	1,079.706	1,111.7
	Cost per unit	c = a/b	Rs./kwh	4.085	3.51
	Variation per unit (Cost of Fuel - Power Purchases)		Rs./kwh		(0.51

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

Ferinformation & n.a. Please

• 5A(Teriff-1)

Copy tol

• DG (MAE)

• M (Tariff)

Mr. Syed Safeer 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.

Page 1 of 2





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

K 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)	Cost of fuel:		- .		
	Cost of fuel - KE		Mill Rs.	6,201.936	12,467.377
	Cost of fuel - Power Purchases	а	Mill Rs.	4,411.029	5,299.675
	Total		Mill Rs.	10,612.965	17,767.052
B)	Units Sent Out				
-,	Units Sent Out - KE		GWh	461.414	843.050
•	Units - Power purchases	b	GWh	618.292	725.620
	Total		GWh _	1,079.706	1,568.671
C)	Cost per unit				
-, 4	Cost of fuel - KE		Rs./kWh	5.744	7.948
•	Cost of fuel - Power Purchases	c = a/b	Rs./kWh	4.085	3.378
	Average		Rs./kWh	9.829	11.326
D)	Variation per unit				
٠,	Cost of fuel - KE		Rs./kWh		2.204
	Cost of fuel - Power Purchases	d	Rs./kWh		(0.707)
	Total Fuel Cost Adjustment		Rs./kWh	=	1.497
E)	Total Fuel Cost Adjustment		Ps/kWh	-	149.67
F)	Variation amount				
•	Cost of fuel - KE		Mill Rs.		3,456.783
	Cost of fuel - Power Purchases	e = d x	Mill Rs.		(1,108.969)
	Total Fuel Cost Adjustment	b (total)	Mill Rs.	_	2,347.814

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION		Dec-20	Mar-21
		Reference	Current
UNITS SENT OUT			
1a UNITS SENT OUT ON FURNACE OIL			
i Bin Qasim - I			
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 Total units sent out on furnace oil - Bin Qasim - i	GWh - GWh	106.013	63.433 292.551
·			
16 UNITS SENT OUT ON GAS			
i Bin Qasim - I	GWh		0.339
Unit 1	GWh	-	0.300
Unit 2 4		•	
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 UNITS SENT OUT ON LNG			
i <u>Bin Qasim - I</u>			
Unit 1	GWh	1.849	0.724
Unit 2	GWh	1.644	0.64
Unit 3	GWh	-	-
Unit 4	GWh	•	•
Unit 5	GWh	8.928	7.95
Unit 6	GWh		22.950
Total units sent out on LNG - Bin Qasim - I	GWh	1 2.421	32.272
ii Bin Qasim II - 560 MW	GWh	318.635	270.71
iii Korangi Town Gas Turbine II	GWh	1.826	29.57
iv Site Gas Turbine II	GWh	0.001	16.62
v Korangi CCPP	GWh	22.519	60.68
Total units sent out on LNG - KE	GWh	355.401	409.864
Total units sent out KE	GWh	461.414	843.050
HEAT RATE AT BUS BAR Bin Qasim - I			
	Btu/kWh	10.903	10.00
Unit 1		10,802	10.80
Unit 2	Btu/kWh	10,650	10,650
Unit 3	Btu/kWh	10,996	10,99
Unit 4	Btu/kWh	10,899	10,89
Unit 5	Btu/kWh	10,304	10,30
Unit 6	8tu/kWh	10,249	10,24
ii Bin Qasim II - 560 MW	Btu/kWh	8,381	8,38
iii Korangi Town Gas Turbine II	Btu/kWh	8,738	8,73
	m. 6 (4)	0 7/6	8,746
iv Site Gas Turbine II v Korangi CCPP	Btu/kWh Btu/kWh	8,74 6 8, 4 97	0,740

Work Sheet- Generation Fuel Cost Variation

DESCRIPTION			Dec-20	Mar-21
			Reference	Current
Calorific Value - Furnace Oll		Btu/kg	40,351	40,351
FUEL PRICES				
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
COST OF FUEL				
5a Furnace oil				
i <u>Bin Qasim - i</u>				
Unit 1		Mill Rs.	167.022	1,574.91
Unit 2		Mill Rs.	347.141	1,220.980
Unit 3		Mili Rs.	•	-
Unit 4		Mili Rs.	-	-
Unit 5		Mill Rs.	979.207	1,558.572
Unit 6		Mill Rs.	-	1,168.20
Total Cost of Furnace Oil - Bin Qasim - !		Miil Rs.	1,493.370	5,522.670
5b <u>Gas</u>				
i Bin Qasim - !				
Unit 1		Mill Rs.	-	3.13
Unit 2		Mill Rs.		2.74
Unit 3		Mili Rs.		
Unit 4		Mill Rs.		
Unit 5		Mill Rs.		32.90
Unit 6		Mill Rs.	-	94.40
Total Cost of Gas - Bin Qaslm - i		Mili Rs.	•	133.19
" ni- O-si- II FCO MAN		Mill Rs.		CCO DE
ii Bin Qasim ii - 560 MW			-	668.83
iii Korangi Town Gas Turbine II		Mill Rs.	•	75.27
iv Site Gas Turbine II v Kcrangi CCPP		Mill Rs. Mill Rs.	-	38.80 125.00
Total Cost of Gas - KE		Miil Rs.	-	1,041.12
5c LNG				
i Bln Qasim - i				
Unit 1		Mili Rs.	26.213	11.42
Unit 2		Mill Rs.	22.974	9.97
Unit 3		Mill Rs.	-	
Unit 4		Mill Rs.	-	
Unit 5		Mill Rs.	120.722	119.74
Unit 6		Mill Rs.		343.55
Total Cost of LNG - Bin Qasim - I		Mili Rs.	169.909	484.70
ii Bin Qasim li - 560 MW		Mill Rs.	3,504.439	3,313.76
iii Korangi Town Gas Turbine II		Mili Rs.	20.939	377.42
iv Site Gas Turbine II		Mill Rs.	0.013	212.33
v Korangi CCPP		Mili Rs.	251.106	753.18
Total Cost of LNG - KE		Mili Rs.	3,946.406	5,141.41
GIDC Arrears billed - Note 1			762.160	762.16
Total cost of fuel - KE	а	Mili Rs.	6,201.936	12,467.37
Variation in Cost of Fuei - KE				
6a Units Sent Out - KE		GWh	461.414	843.05
6b Units - Power Purchases	L	GWh	618.292	725.62
Total Units Sent Out	b	GWh	1,079.706	1,568.67
6c Cost per unit	c = a/b	Rs./kWh	5.744	7.94
6d Variation per unit (Cost of Fuel - KE)		Rs./kWh		2.20

Note 1: Installment 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.

Mork Shoot	Dower	Purchase	O.S.M	and Canacity Cos	t:

	GWh	9,308	15.805
	GWh	53.559	70.936
	GWh	37.999	63,407
	GWh	364.321	421.762
			-
			6.355
			40.611
			64,528
	GWh	7.437	8.820
	GWh .	24.511	18.768
	GWh	7.735	10.561
	GWh	5.719	4.057
	Const		715 670
	GWh :	518.292	725.620
	MILRs.	112.674	271.838
	Mili Rs.	662.326	1,068.069
	Mill Rs.	489.240	952.481
	MT Rs.	2.184.505	2,017.788
			67,740
			382.300
			441.122
			-
		146.970	89.769
	Mill Rs.	-	=
	Mill Rs.	74.643	59.079
	Mill Rs.	4,411.029	5,299.675
	Rs./hwh	12.106	14.035
	Ris /kw/h		15.057
			15.012
			4.783
			-
			10.659
	Rs./kwh	6.520	9.414
	Rs./kwh	5.810	€.836
	Rs./kwh		
	Rs./kwn	5.995	4.783
	Rs./kwn		
	Rs./kwin	13.052	14.526
г	Mic Rs.	4,411.029	5,299.675
	GWh	461,414	843.050
	GWh	518.292	725 620
b	GW?	1,079.706	1,568.671
c≡a/h	Pc/bwh	∠ ୩୭୩	3.378
	Rs./kwh	00.	(0.707)
	Mill Rs.	_	(1,108.969)
		GWh	GWh 33.559 GWh 37.999 GWh 364.321 GWh 3.850 GWh 40.107 GWh 52.747 GWh 7.437 GWh 7.437 GWh 24.511 GWh 7.735 GWh 5.719 GWh 618.292 MILERS 122.674 MILERS 662.226 MILERS 489.240 MILERS 489.240 MILERS 489.240 MILERS 489.240 MILERS 489.240 MILERS 74.643 MILERS 75.66 RS./kwh 12.366 RS./kwh 15.875 RS./kwh 5.996 RS./kwh 5.996 RS./kwh 5.996 RS./kwh 5.996 RS./kwh 5.996 RS./kwh 10.562 RS./kwh 5.996 RS./kwh 5.996 RS./kwh 10.562 RS./kwh 10.562 RS./kwh 5.996 RS./kwh 10.562

Note 1: Kanupo details are provisional for the month of Marth-21 as the invoice for the month is yet to be received

Note 2: CPPA-G's fue, tost 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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> n.a. Please For information

SA(Tariff-I) Capy (o:

DØ (M&E)

Mr. Syed Safeer Hussain,

Registrar, National Electric Power Regulatory Authority

NEPRA Tower, Attaturk Avenue (East), Sector G-5/1.

Islamabad.

CC: ChanthanKE/BPR/NEPRA/

M (Tariff)

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

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.

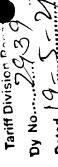
In this regard, NEPRA has issued its decision on Heat rate for BQPS - II plant on January 1, 2020 and accordingly the calculations are based on Heat rates determined therein.

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.

RE House, 39-B, Sunset Boulevard, Phase-II, Defence Housing Authority, Karachi

www.ke.com.pk 92-21-3263-7133, 92-21-3870-9132, UAN: 111-537-211

Page 1 of 2





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

Reference Current		DESCRIPTION		Unit	Mar-21	Apr-21
Cost of fuel - KE					Reference	Current
Cost of fuel - Power Purchases a Mill Rs. 5,299.675 6,099.751	A)	Cost of fuel:		n		
Total Mill Rs. 17,767.052 19,334.181		Cost of fuel - KE			12,467.377	13,234.430
B		Cost of fuel - Power Purchases	а	Mill Rs.	5,299.675	
Units Sent Out - KE Units - Power purchases b GWh GWh 843.050 953.764 Total GWh 725.620 895.041 Cost per unit Cost of fuel - KE Cost of fuel - Power Purchases c = a/b Rs./kWh 7.948 7.158 Average Rs./kWh 3.378 3.299 Rs./kWh 11.326 10.458 D) Variation per unit Cost of fuel - KE Cost of fuel - Power Purchases d Rs./kWh Co.789 Total Fuel Cost Adjustment Ps/kWh Cost of fuel - Power Purchases d Rs./kWh Cost of fuel - KE Cost of fuel - Power Purchases b (1,459.376) Mill Rs. (1,459.376) Mill Rs. (146.342)		Total		Mill Rs.	17,767.052	19,334.181
Units Sent Out - KE Units - Power purchases Total Cost per unit Cost of fuel - KE Cost of fuel - Power Purchases Average D) Variation per unit Cost of fuel - KE Cost of fuel - Power Purchases Total Fuel Cost Adjustment Cost of fuel - KE Cost of fuel - KE Cost of fuel - Power Purchases E) Variation amount Cost of fuel - KE Cost of fuel - KE Cost of fuel - NE Cost of fuel - Power Purchases E) Variation amount Cost of fuel - KE Cost of fuel - Power Purchases Mill Rs. (1,459.376) Mill Rs. (146.342) Mill Rs. (146.342)	в)	Units Sent Out				
Total GWh 1,568.671 1,848.804	•	Units Sent Out - KE		1		
Cost per unit Cost of fuel - KE Cost of fuel - Power Purchases C = a/b Rs./kWh 3.378 3.299 Rs./kWh 11.326 10.458		Units - Power purchases	b			
Cost of fuel - KE Cost of fuel - Power Purchases Rs./kWh 7.948 7.158 Average Rs./kWh 3.378 3.299 Rs./kWh 11.326 10.458 D) Variation per unit Cost of fuel - KE Rs./kWh (0.789) Cost of fuel - Power Purchases d Rs./kWh (0.079) Total Fuel Cost Adjustment Ps/kWh (86.85) F) Variation amount Cost of fuel - KE e = d x Mill Rs. (1,459.376) F) Variation amount (1,459.376) (146.342) (146.342)		Total		GWh	1,568.671	1,848.804
Cost of fuel - KE Cost of fuel - Power Purchases Rs./kWh 7.948 7.158 Average Rs./kWh 3.378 3.299 Rs./kWh 11.326 10.458 D) Variation per unit Cost of fuel - KE Rs./kWh (0.789) Cost of fuel - Power Purchases d Rs./kWh (0.079) Total Fuel Cost Adjustment Ps/kWh (86.85) F) Variation amount Cost of fuel - KE e = d x Mill Rs. (1,459.376) F) Variation amount (1,459.376) (146.342) (146.342)		Cost per unit				
Cost of fuel - Power Purchases c = a/b Rs./kWh 3.378 3.299 Average Rs./kWh 11.326 10.458 D) Variation per unit Cost of fuel - KE Rs./kWh (0.789) Cost of fuel - Power Purchases d Rs./kWh (0.079) Total Fuel Cost Adjustment Ps/kWh (86.85) F) Variation amount Variation amoun		•		Rs./kWh	7.948	7.158
Average Rs./kWh 11.326 10.458 D) Variation per unit Cost of fuel - KE Cost of fuel - Power Purchases Total Fuel Cost Adjustment Cost of fuel Cost Adjustment E) Total Fuel Cost Adjustment Cost of fuel - KE Cost of fuel - KE Cost of fuel - Power Purchases Cost of fuel - Power Purchases Rs./kWh (0.789) Rs./kWh (0.079) Rs./kWh (0.869) Mill Rs. (1,459.376) Mill Rs. (1,459.376) Mill Rs. (1,459.376) Mill Rs. (146.342)			c = a/b	1	3.378	3.299
Cost of fuel - KE Rs./kWh (0.789) Cost of fuel - Power Purchases d Rs./kWh (0.079) Total Fuel Cost Adjustment Rs./kWh (0.869) E) Total Fuel Cost Adjustment Ps/kWh (86.85) F) Variation amount Variation amount Will Rs. (1,459.376) Cost of fuel - KE e = dx Mill Rs. Mill Rs. (146.342) Hototal) Mill Rs. (146.342)					11.326	10.458
Cost of fuel - KE Rs./kWh (0.789) Cost of fuel - Power Purchases d Rs./kWh (0.079) Total Fuel Cost Adjustment Rs./kWh (0.869) E) Total Fuel Cost Adjustment Ps/kWh (86.85) F) Variation amount Variation amount Will Rs. (1,459.376) Cost of fuel - KE E = d x Mill Rs. Mill Rs. (146.342) Mill Rs. (146.342) Mill Rs. (146.342)	D)	Variation per unit				
Cost of fuel - Power Purchases d Rs./kWh (0.079) Total Fuel Cost Adjustment Rs./kWh (0.869) E) Total Fuel Cost Adjustment Ps/kWh (86.85) F) Variation amount Variation amount (1,459.376) Cost of fuel - KE E = d x Mill Rs. (1,459.376) Cost of fuel - Power Purchases Mill Rs. (146.342)	٥,	•		Rs:/kWh		(0.789)
Total Fuel Cost Adjustment E) Total Fuel Cost Adjustment Ps/kWh (0.869) Ps/kWh (86.85) F) Variation amount Cost of fuel - KE Cost of fuel - Power Purchases Ps/kWh (1,459.376) Mill Rs. (1,459.376) Mill Rs. (146.342)			d	1		•
E) Total Fuel Cost Adjustment Ps/kWh (86.85) F) Variation amount Cost of fuel - KE Cost of fuel - Power Purchases Cost of fuel - Power Purchases E = d x b (1,459.376) Mill Rs. (1,459.376) Mill Rs. (146.342)					_	
F) Variation amount Cost of fuel - KE Cost of fuel - Power Purchases e = d x b (total) Mill Rs. (1,459.376) Mill Rs. (146.342)		•		<i>-</i> '	=	
Cost of fuel - KE Cost of fuel - Power Purchases $ \begin{array}{c c} e = d x \\ b \text{ (total)} \end{array} $ Mill Rs. $ \begin{array}{c c} \text{Mill Rs.} \\ \text{(146.342)} \end{array} $	E)	Total Fuel Cost Adjustment		Ps/kWh	_	(86.85)
Cost of fuel - KE Cost of fuel - Power Purchases $ \begin{array}{c c} e = d x \\ b \text{ (total)} \end{array} $ Mill Rs. $ \begin{array}{c c} \text{Mill Rs.} \\ \text{(146.342)} \end{array} $	F)	Variation amount				
Cost of fuel - Power Purchases e = d x Mill Rs. (146.342)	,	Cost of fuel - KE		Mill Rs.		(1,459.376)
b (total)				Mill Rs.		(146.342)
		Total Fuel Cost Adjustment	b (total)	Mill Rs.	_	

DESCRIPTION		Mar-21	Apr-21
HAITS SEAT OUT		Reference	Current
UNITS SENT OUT			
1a UNITS SENT OUT ON FURNACE OIL Bin Qasim - 1			
Unit 1	GWh	81.139	40.67
Unit 2	GWh	63.802	23.49
Unit 3	GWh	03.802	23.43
Unit 4	GWh		-
Unit 5	GWh	84.178	41.81
Unit 6	GWh	63.433	17.90
Total units sent out on furnace oil - Bin Qasim - I	GWh	292.551	123.88
16 UNITS SENT OUT ON GAS			
i Bin Qasim - I			
Unit 1	GWh	0.339	16.25
Unit 2	GWh	0.300	21.38
Unit 3	GWh	0.500	21.30
Unit 4	GWh	•	-
Unit 5	GWh	3.726	20.09
Unit 6			
	GWh	10.748	25.83
Total units sent out on gas - Bin Qasim - I	GWh	15.114	83.56
ii Bin Qasim II - 560 MW	GWh	93.123	95.04
ili Korangi Town Gas Turbine II	GWh	10.053	10.33
iv Site Gas Turbine II	GWh	5.178	6.60
v Korangi CCPP	GWh	17.167	24.24
Total units sent out on gas - KE	GW h	140.635	219.78
1c UNITS SENT OUT ON LNG			
Bin Qasim - I			
Unit 1	GWh	0.724	49.23
Unit 2	GWh	0.641	64.77
Unit 3	GWh		
Unit 4	GWh		-
Unit 5	GWh	7.957	60.85
Unit 6	GWh	22.950	78.26
Total units sent out on LNG - 8in Qasim - I	GWh	32.272	253.12
ii Bin Qasim II - 560 MW	GWh	270.711	248.16
iii Korangi Town Gas Turbine !!	GWh	29.572	26.97
iv Site Gas Turbine II	G W h	16.622	17.02
v Korangi CCPP	GWh	60.688	62.32
Total units sent out on LNG - KE	GWh -	409.864	607.60
1d UNITS SENT OUT ON HSD			
i Korangi CCPP - 220 MW	GWh		2.48
Total units sent out on HSO	GWh	•	2.48
Total units sent out KE	GWh	843.050	953.76
HEAT RATE AT BUS BAR			
Bin Qasim - I			
Unit 1	8tu/kWh	10,802	10,80
Unit 2	Btu/kWh	10,650	10,65
	Btu/kWh	10,996	10,99
Unit 3	Stu/kWh	10,899	10,89
Unit 3 Unit 4	DEU/ KVVII	10,304	
Unit 4	Rei / LIA/h		10,30
Unit 4 Unit 5	Btu/kWh		10.2
Unit 4 Unit 5 Unit 6	Btu/kWh	10,249	
Unit 4 Unit 5 Unit 6 ii Bin Qasim II - 560 MW	Btu/kWh Btu/kWh	10,249 8,381	8,38
Unit 4 Unit 5 Unit 6 ii Bin Qasim II - 560 MW iii Korangi Town Gas Turbine II	Btu/kWh Btu/kWh 8 tu/kWh	10,249 8,381 8,738	8, 38 8, 7 3
Unit 4 Unit 5 Unit 6 ii Bin Qasim II - 560 MW	Btu/kWh Btu/kWh	10,249 8,381	10,24 8,38 8, 7 3 8,74 8,49

Work Sheet- Generation Fuel Cost Variation

	DESCRIPTION			Mar-21	Apr-21
				Reference	Current
	Calorific Value - Furnace Oil		Btu/kg	40,351	40,351
	FUEL PRICES				
	4a Fuel Price - Gas		s./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		s./MM8TU	1,461	1,45
	4e Fuel Price - HSD		Rs./MMBTU	1,401	2,720
	COST OF FUEL				
	5a <u>Furnace oil</u>				
	Bin Qasim - !				
	Unit 1		Mill Rs.	1,574.918	825.32
	Unit 2		Mill Rs.	1,220.980	469.96
	Unit 3		Mill Rs.	-	-
	Unit 4		Mill Rs.		-
	Unit 5		Mill Rs.	1,558.572	809.260
	Unit 6		Mill Rs.	1,168.205	344.67
	Total Cost of Furnace Oil - Bin Qasim - I		Mill Rs.	5,522.676	2,449.22
	5b <u>Gas</u> i <u>Bin Qasim - I</u>				
	Unit 1		Mill Rs.	3.139	150.458
	Unit 2		Mill Rs.	2.742	195.17
	Unit 3		Mill Rs.		-
	Unit 4		Mill Rs.	_	
	Unit 5		Mill Rs.	32.907	177.40
	Unit 6		Mill Rs.	94.406	226.93
	Total Cost of Gas - Bin Qaslm - i		Mill Rs.	133.194	749.97
	ii Bin Qasim II - 560 MW		Mill Rs.	668.839	682.61
	iii Korangi Town Gas Turbine II		Mill Rs.	75.279	77.38
	iv Site Gas Turbine II		Mill Rs.	38.809	49.47
	v Korangi CCPP		Mill Rs.	125.008	176.54
	Total Cost of Gas - KE		Mili Rs.	1,041.129	1,735.996
	Sc LNG				
	Bin Qasim - I				75.44
	Unit 1		Mili Rs.	11.424	774.81
	Unit 2		Mill Rs.	9.979	1,005.08
	Unit 3		Mill Rs.	-	
	Unit 4		Mill Rs. Mill Rs.	119.749	913.60
	Unit 5		Mill Rs.	343.550	
	Unit 6 Total Cost of LNG - Bin Qaslm - i		Affii Rs	484.702	1,168.62 3,862.12
	ii 8in Qasim II - 560 MW		Mill Rs.	3,313.769	3,030.18
	iii Korangi Town Gas Turbine II		Mill Rs.	377.425	343.35
	iv Site Gas Turbine II		Mill Rs.	212.332	216.90
	v Korangi CCPP		Mill Rs.	753.186	771.51
	Total Cost of LNG - KE		Mill Rs.	5,141.413	8,224.0B
	5d <u>HSD</u> i Korangi CCPP - note 2		Mill Rs.	_	62.96
	Total Cost of HSD - KE		Mii' Rs.		62.96
			IAIII 172.	767 460	
	GIDC Arrears billed - Note 1			762.160	762.16
	Total cost of fuel - KE	a	Miil Rs.	12,467.377	13,234.43
i	Variation in Cost of Fuel - KE 6a Units Sent Out - KE		GWh	843.050	953.76
	6b Units - Power Purchases		GWh	725.620	895.04
	Total Units Sent Out	b	GWh -	1,568.671	1,B48.80
	6c Cost per unit	c = a/b	Rs./kWh	7.948	7.15
	6d Variation per unit (Cost of Fuel - KE)		Rs./kWh		(0.78
				_	

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 comissioning 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	0&M	and	Capacity	Cost

DESCRIPTION			Маг-21	Apr-21
			Reference	Current
POWER PURCHASES		CWh	45.005	17140
a KANUPP		GWh	15.805	17.149
b TAPAL		GWh	70.936	62.760
c GUL AHMED		GWh	63.407	55.510
d CPPA-G		GWh	421.762	597.902
e ANOUD POWER		GWh	-	-
f INT IND (IIL)		GWh	6.355	5.309
g FFBL		GWh	40.611	39.30
h 5NPC		GWh	64.528	68.37
i OUR5UN		GWh	8.820	8.67
j CPPA-G - 150 MW		GWh	18.768	21.55
k GHARO SOLAR		GWh	10.561	10.97
I LOTTE		GWh	4.067	7.54
TOTAL		GWh	725.620	895.04
COST OF POWER PURCHASES - FUEL COST				
a KANUPP - Note 1		Mill Rs.	221.828	227.56
b TAPAL		Mill Rs.	1,068.069	1,006.86
c GUL AHMED		Mill Rs.	952.481	899.26
d CPPA-G - Note 2		Mill Rs.	2,017.288	2,859.76
e ANOUD POWER		Mill Rs.	-	
f INTIND (IIL)		Mill Rs.	67.740	56.59
g FFBL		Mill Rs.	382.300	369.95
h SNPC		Mill Rs:	441.122	467.38
i OUR5UN		Mill Rs.	-	-
j CPPA-G - 150 MW - Note 2		Mill Rs.	89.769	103.09
k GHARO SOLAR		Mill Rs.	-	-
LOTTE		Mill Rs.	59.079	109.25
TOTAL		Mill Rs.	5,299.675	6,099.75
FUEL COST / UNIT				
a KANUPP - Note 1		Rs./kwh	14.035	13.27
b TAPAL		Rs./kwh	15.057	16.04
c GUL AHMED		Rs./kwh	15.022	16.20
d CPPA-G - Note 2		Rs./kwh	4.783	4.78
e ANOUD POWER		Rs./kwh	4.765	4.70
• •		Rs./kwh	10.659	10.66
g FFBL		Rs./kwh	9.414	9.41
h 5NPC		Rs./kwh	6.836	6.83
OURSUN		Rs./kwh		
j CPPA-G - 150 MW - Note 2		Rs./kwh	4.783	4.78
k GHARO SOLAR		Rs./kwh	14.536	- 14.40
1 LOTTE		Rs./kwh	14.526	14.49
VARIATION IN COST OF FUEL - POWER PURCHASES				
4a Cost of Fuel - Power Purchases	a	Mill Rs.	5,299.675	6,099.75
Units Sent out:				
Units Sent Out - KE		GWh	843.050	953.76
Units - Power Purchases		GWh	7 25.620	895.04
4b Total Units Sent Out	ь	GWh	1,568.671	1,848.80
4c Cost per unit	c = a/b	Rs./kwh	3.378	3.29
4d Variation per unit (Cost of Fuel - Power Purchases)	-, -	Rs./kwh		(0.07
				(0.5)
4e Variation amount (Cost of Fuel - Power Purchases)		Mill Rs.	_	(146.34

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: CPPA-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.

is stry

Mr. Safeer Hussain

Registrar,

National Electric Power Regulatory Authority,

NEPRA Tower, Attaturk Avenue (East),

Sector G-5/1,

Islamabad.

Ref No. KE/BPR/NEPRA/2021/1279

June 194, 2021

Subject: Monthly Cost Variation for the month of May 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 May 2021 along with relevant supports, for Authority's approval. Please note that the calculation for the month of May 2021 is based on CPPA-G's latest fuel cost determined by NEPRA for the month of April 2021 and it is subject to adjustment based on the determination for May 2021 to be issued by NEPRA.

Moreover, fuel cost (own plants) for May 2021 includes impact of GIDC arrears monthly installments for the month of May 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 May 2021 is as below;

Month	Variation Amount (PKR Million)	Variation per unit (PKR / kWh)
May-21	(1,297)	(0.646)

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.

Page 1 of 2

KE House, 39-B, Sunset Boulevard, Phase-II, Defence Housing Authority, Karachi

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10583

Tariff Division Record by Object 16-6-27



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 January 2021 to April 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 May 2021
- Supporting Documents for May 2021

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

Cost of fuel - Power Purchases d Rs./kWh 0.523		DESCRIPTION		Unit	Mar-21	May-21
Cost of fuel - KE				-	Reference	Current
Cost of fuel - Power Purchases a Mill Rs. 5,299.675 7,826.949	A)	Cost of fuel:		_		
Total Mill Rs. 17,767.052 21,427.797		Cost of fuel - KE	İ	Mill Rs.	12,467.377	13,600.847
B) Units Sent Out Units Sent Out - KE Units - Power purchases b GWh 7.25.620 1,035.706 Total		Cost of fuel - Power Purchases	а	Mill Rs.	5,299.675	7,826.949
Units Sent Out - KE Units - Power purchases Total Cost per unit Cost of fuel - KE Cost of fuel - Power Purchases Average Cost of fuel - KE Cost of fuel - SE Cost of fuel - SE Cost of fuel - Fe Cost of fuel - Fe Cost of fuel - SE Cost of fuel - SE Cost of fuel - Fe Cost of fuel - SE Cost of fuel - SE Cost of fuel - SE Cost of fuel - Power Purchases Total Fuel Cost Adjustment Cost of fuel - Power Purchases Total Fuel Cost Adjustment E Variation amount Cost of fuel - SE Cost of fuel - Power Purchases Total Fuel Cost Adjustment E Variation amount Cost of fuel - Power Purchases Cost of fuel - Power Purchases A Mill Rs. Cost of fuel - Power Purchases A Mill Rs. Cost of fuel - Power Purchases A Mill Rs. Cost of fuel - Power Purchases A Mill Rs. A Mill Rs. Cost of fuel - Power Purchases A Mill Rs. A Mill		Total		Mill Rs.	17,767.052	21,427.797
Units Sent Out - KE	B)	Units Sent Out				
Total GWh 1,568.671 2,006.378	•	Units Sent Out - KE				
Cost per unit Cost of fuel - KE Rs./kWh 7.948 6.779		Units - Power purchases	b	-	725.620	1,035.706
Cost of fuel - KE		Total	i	GWh =	1,568.671	2,006.378
Cost of fuel - KE		Cost per unit				
Cost of fuei - Power Purchases C = a/b Rs./kWh 3.378 3.901		•		Rs./kWh	7.948	6.779
No.		Cost of fuei - Power Purchases	c = a/b	4	3.378	
Cost of fuel - KE				_		
Cost of fuel - KE	ומ	Variation per unit				
Cost of fuel - Power Purchases d Rs./kWh 0.523	υ,	·		Rs /kWh		(1 169)
Total Fuel Cost Adjustment E) Total Fuel Cost Adjustment Ps/kWh (64.63) F) Variation amount Cost of fuel - KE Cost of fuel - Power Purchases Rs./kWh (64.63) Mill Rs. (2,345.315) Mill Rs. Mill Rs. (1,048.501)			ď			
F) Variation amount Cost of fue! - KE Cost of fue! - Power Purchases P (2,345.315) Cost of fue! - Power Purchases Cost of fue! - C				•	_	
Cost of fuel - KE Cost of fuel - Power Purchases $e = dx$ b (2,345.315) Mill Rs. $mill$ Rs.	E}	Total Fuel Cost Adjustment		Ps/kWh	_	(64.63)
Cost of fuel - KE Cost of fuel - Power Purchases $e = dx$ b (2,345.315) Mill Rs. $mill$ Rs.	F)	Variation amount				
Cost of fuel - Power Purchases $\begin{vmatrix} e = dx \\ b \text{ (total)} \end{vmatrix}$ Mill Rs. 1,048.501	٠,			Mill Rs		(2 345 315)
b (total)				i		
		Total Fuel Cost Adjustment	b (total)	Mill Rs.	_	(1,296.815)

Mork	Chent	Concretio	n Eural C	ost Variation
vvork	Sneet-	Generation	ın Fuel C	ost variation

DESCRIPTION		Mar-21	May-71
UNITS SENT OUT		Reference	Current
1a UNITS SENT OUT ON FURNACE OIL			
i Bin Qaşim - I			
Unit 1	GWh	81.139	31,968
Unit 2	GWh	63.802	13.545
Unit 3	GWh	-	
Unit 4	GWh	-	
Unit 5	GWh	84.178	20.080
Unit 6	GWh	63 433	
Total units sent out on furnace off - Bin Qasim - I	GWh	292.551	65,593
16 UNITS SENT OUT ON GAS			
Bin Qaşım - I			
Unit 1	GWh	0.339	19.338
Unit 2	GWh	0.300	22.807
Unit 3	GWh	• -	-
Unit 4 Unit 5	GWh		
Unit 6	. GWh GWh	3.726	25.533
Total units sent out on gas - 8in Qasim - I		10.748	31 621
Local must zeur onr Dir Baz - old Gazilli - I	GWh	15.114	99.299
ii 8in Qasim II - 560 MW	GWh	93.123	91.096
iii Korangi Town Gas Turbine II	GWh	10.053	10.284
iv Site Gas Turbine II	GWh	5.178	8.533
v Korangi CCPP	GWh	17.167	25.001
Total units sent out on gas - KE	. GWh	140.635	234.213
C UNITS SENT OUT ON LNG			
8in Qasim · I			
Unit 1	GWh	0.724	53.643
Unit 2	GWh	0.641	63.266
Unit 3	GWh	-	
Unit 4	GWh	-	
Unit 5	GWh	7.957	70.826
Unit 6	GWh	22.950	<u>87.714</u>
Total units sent out on LNG - 8in Qasim - I	GWh 7	32.272	275.450
ii Bin Qasim II - 560 MW	GWh	270.711	259.768
iii Korangi Town Gas Turbine il	GWn	29.572	29.217
iv Site Gas Turbine !!	GWh	16.622	24.164
v Korangi CCPP	GWh	60.688	71.211
Total units sent out on LNG - KE	GWh -	409,864	659.810
& UNITS SENT OUT ON HSD			
I Korangi CCPP - 220 MW	G₩h	-	11.057
Total units sent out on H5D	GWh		11.057
fotal units sent out KE	GWh _	843.050	970,672
EAT RATE AT BUS BAR	_		
8in Qasim - I			
Unit 1	Btu/kWh	10,802	10,802
Unit 2	8tu/kWh	10,650	10,650
Unit 3	Btu/kWh	10,996	10,996
Unit 4	Btu/kWh	10,899	10,899
Unit 5	8tu/kWh	10,304	10,304
	8tu/kWh	10,249	10,249
Unit 6			6.264
ii 8in Qasim II - 560 MW	8tu/kWh	8,381	6,381
E 8In Qasim II - 560 MW III Korang: Town Gas Turbine II	Btu/kWh	8,738	8,738
ii 8in Qasim II - 560 MW			

L	DESCRIPTION			Mar-21	May-21
				Reference	Current
3	Calorific Value - Furnace Oil		Btu/kg	40,351	40,351
4	FUEL PRICES				
	4a Fuel Price - Gas		Rs./MMBTU	857	857
	4b Fuel Price - Furnace Oil		Rs./Mton	72,507	75,71D
	4c Fuel Price - Furnace Oil		Rs./MMBTU	1,797	1,876.29
	4d Fuel Price - LNG		Rs./MMBTU	1,461	1,534
	4e Fuel Price - HSD		Rs./MMBTU		2,712
5	COST OF FUEL				
	Sa <u>Furnace oll</u>				
	i <u>Bin Qasim - i</u> Unit 1		Mill Rs.	1,574.918	647.913
	Unit 2		Mill Rs.	1,220.980	27D.663
	Unit 3		Mili Rs.	-	
	Unit 4		Mill Rs.	-	-
	Unit 5		Mill Rs.	1,558.572	388.211
	Unit 6		Mill Rs.	1,168.205	-
	Total Cost of Furnace Dil - Bin Qasim - I		Mili Rs.	5,522.676	1,306.787
	5b Gas				
	Bin Qasim - I		Mill Rs.	2.520	170.034
	Unit 1		Mili Rs.	3.139 2.742	179.021 208.165
	Unit 2 Unit 3		Mill Rs.	2.742	200.103
	Unit 4		Mill Rs.		
	Unit 5		Mill Rs	32.9D7	225.468
	Unit 6		Mill Rs.	94.406	277.737
	Total Cost of Gas - Bin Qasim - I		Mill Rs.	133.194	890.391
	ii Bin Qasim II - 560 MW		Mill Rs.	668.839	654.279
	iii Korangi Town Gas Turbine ii		Mill Rs.	75.279	77.D10
	iv Site Gas Turbine II		Mill Rs.	38.809	63.956
	v Korangi CCPP		Mili Rs.	125.D08	182.D53
	Total Cost of Gas - KE		Mill Rs.	1,041.129	1,867.689
	5c <u>LNG</u>				
	Bin Qesim - I				_
	Unit 1		Miii Rs.	11 424	888.631
	Unit 2		Mill Rs.	9.979	1,033.293
	Unit 3		Mill Rs.	•	-
	Unit 4		Mili Rs.	. 10 740	
	Unit 5		Mill Rs. Mill Rs.	119.749	1,119.181
	Unit 6 Total Cost of LNG - Bin Qasim - I		Mill Rs.	343.550 484.702	1.378.640 4,419.744
	ii 8in Qasim II - 560 MW		Mill Rs.	3,313.769	3,338.634
	iii Korangi Town Gas Turbine II		Mill Rs.	377.425	391,516
	iv Site Gas Turbine II		Mill Rs.	212.332	324.100
	v Korangi CCPP		Mili Rs.	753.186	927.925
	Total Cost of LNG - KE		Mill Rs.	5,141.413	9,401.920
	5d <u>HSD</u> i Korangi CCPP - note 2		Mili Rs.		267.291
	Total Cost of H5D - KE		MIII Rs.	_	262.291
			141111111111111111111111111111111111111	267.160	
	GIDC Arrears billed - Note 1			762.160	762.160
	Total cost of fuel - KE	a	Mill Rs.	12,467.377	13,600.847
					070 570
6	Variation in Cost of Fuel - KE		GW/h	843 050	970 677
6	6a Units Sent Out - KE		GWh GWh	843.050 725.620	970.672 1.035.706
6		b	GWh GWh GWh	843.050 725.620 1,568.671	1,035.706 2,006.378
6	6a Units Sent Out - KE 6b Units - Power Purchases	b c = a/b	GWh .	725.620	1,035.706
6	6a Units Sent Out - KE 6b Units - Power Purchases Total Units Sent Dut		GWh GWh	725.620 1,568.671	1,035.706 2,006.378

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 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 a

SANUPP GWh 15.805 20.4;	POWER PURCHASES S	Мэү 21	Mar-21			DESCRIPTION
SAMUPP GWh	a KANUPP b TAPAL c GWh 70.936 b TAPAL c GUL AHMED d GWh 633.07 d CPPA-G e ANOUD POWER GWh 421.762 e ANOUD POWER f INT IND (IIL) SPEC GWC	Current	Reference			
SAMUPP GWh	a KANUPP b TAPAL c GWh 70,936 b TAPAL c GWh 70,936 c GUL AHMED d GWh 421.762 e ANOUD POWER f INT IND (IIL) gWh 6.355 g FF8L GWh 40,611 b SNPC GWh 40,611 b SNPC GWh 40,611 b SNPC GWh 40,611 b TAPAL GWH 8.820 gWh 8.820 gWh 18.768 k GHARO SOLAR GWH 18.768 c GWL 10,751 b TAPAL C GWH 10,561 c GUL AHMED GWH 725,620 2 COST OF POWER PURCHASES - FUEL COST a KANUPP - Note 1 b TAPAL GWH 725,620 c GUL AHMED GWH 725,620 c GUL AHMED MIR 8. g 5,2481 b SNPC MIR 8. g FF8L MIR 9. g FF8L MIR					
TAPAL GWh 70.936 59.00	b TAPAL c GUL AHMED d CPPA-G G GWh 63.407 d CPPA-G E ANOUD POWER f INT IND (IIL) G GWh 63.407 f INT IND (IIL) G GWh 63.555 g FF8L G GWh 64.528 g GWh 64	20.42	15 005	CIME		
COST OF POWER PURCHASES - EUEL COST A NAUDE POWER GWh GWh GWH GWH GWH GWH GWH GWH	C GUL AHMED d CPPA-G d CPPA-G d CPPA-G e ANOUD POWER FINT IND (IIL) SWh 6.355 g FF8L GWh 64.528 i OURSUN GWh 8.820 i OURSUN GWh 8.8768 k GHARO SOLAR I LOTTE COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 1 MILES GWH MILES GWH MILES GWH MILES GWH MILES GWH MILES COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 1 MILES MILES GWH MILE					
GVPA-G GWh	d CPPA-G e ANOUD POWER F ANOUD POWER F ANOUD POWER GWh G.355 F F8L GWh GWh G.355 F F8L GWh GWh G.4528 GWh GWh G.4528 GWh GWh GWh B.820 J CPPA-G-150 MW GWh GWh 18.768 K GHARO SOLAR GWh TOTAL GWH TO		· -			
E ANOUD POWER INT IND (IIL) GWh	e ANOUD POWER f INT IND (IIL) GWh 6.355 g FF8L GWh 40.611 h SNPC GWh 6.4528 i OURSUN GWh 8.820 j CPPA-G-150 MW GWh 18.768 k GHARO SOLAR GWh 10.561 l LOTTE GWh 725.620 COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 1 MII RS 221.828 MII RS. 1,068.069 C GUL AHMED MII RS. 2,017.288 d CPPA-G - Note 2 ANOUD POWER MII RS. 32.017.288 f INT IND (IIL) MII RS. 441.122 GWH SNPC MII RS. GHARO SOLAR MII RS. FELL MII RS. MII RS					
INT IND (IIL) GWh	Final Properties Final Prop					
FR GWh 40.611 40.21 N	g FF8L GWh 40.611 h SNPC GWh 64.528 i OURSUN GWh 8.820 j CPPA-G - 150 MW GWh 10.561 LOTTE GWh 4067 TOTAL GWH					
SAPC GWh 64,528 71,01 OURSUN GWh 8,820 8,55 CPPAG-150 MW GWh 10,561 10,99 GWh 4,657 7,31 TOTAL GWh 725,620 1,035,76 TOTAL Mill Rs 1,068,069 948,11 GURA-G-Note 2 Mill Rs 1,068,069 948,11 GURA-G-Note 2 Mill Rs 2,017,288 4,392,17 GURA-G-Note 2 Mill Rs 6,7740 36,81 FF8L Mill Rs 382,330 377,72 GURSUN Mill Rs 382,330 377,72 GURSUN Mill Rs 44,1122 485,46 GHARO SOLAR Mill Rs 44,1122 485,46 GHARO SOLAR Mill Rs 59,079 111,88 TOTAL Rs/kwh 15,057 16,06 GURSUN Rs/kwh 15,057 16,06 GURSUN Rs/kwh 15,057 16,06 GURSUN Rs/kwh 15,057 16,06 GURSUN Rs/kwh 14,526 15,25 OURSUN Rs/kwh 14,526 15,25 OURSUN Rs/kwh 4,783 6,17 RS/kwh 14,526 15,25 VARIATION IN COST OF FUEL - POWER PURCHASES GWh 843,050 970,67 Units Sent out: Units Sent out b GWh 1,568,671 2,006,32 CPPA-G-150 MW - Note 2 Rs/kwh 3,378 3,90 40 Cost of Fuel - Power Purchases Rs/kwh 3,378 3,90 40 Variation per unit (Cost of Fuel - Power Purchases Rs/kwh 3,378 3,90 40 Variation per unit (Cost of Fuel - Power Purchases Rs/kwh 3,378 3,90 40 Variation per unit (Cost of Fuel - Power Purchases Rs/kwh 3,378 3,90 40 Variation per unit (Cost of Fuel - Power Purchases Rs/kwh 3,378 3,90 40 Variation per unit (Cost of Fuel - Power Purchases Rs/kwh	SNPC	3.45				,,,,,
OURSUN GWh 8.820 8.52 8.52 1.035 1.094 1.0561 1.094 1.0561 1.094 1.0561 1.094 1.0561 1.094 1.0561 1.094 1.0561 1.094 1.0561 1.094 1.0561 1.094 1.0561 1.095 1.035	OURSUN	40.27	40.611			· ·
J CPPA-G - 150 MW K GHARO SOLAR GWh 18.768 GWh 10.551 10.99 TOTAL GWH 725.620 1.035.75 TOTAL COST OF POWER PURCHASES - FUEL COST a KANUPP - Note 1 b TAPAL COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 2 A NOUD POWER FIRST SPECIAL STATES FIRST SPECIAL STATES GHARO SOLAR GHARO SOLAR GHARO SOLAR GHARO SOLAR GHARO SOLAR FUEL COST / LIMIT TOTAL B KANUPP - Note 2 COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 2 COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 2 COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 2 COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 2 COST OF POWER PURCHASES COST / LIMIT COST OF POWER PURCHASES COST OF POWER PURCHASES COST OF FUEL - POWE	CPPA-G - 150 MW	71.01	64.528	GWh		
K GHARO SOLAR I LOTTE TOTAL GWh 725.620 1,035.71 TOTAL GWh 725.620 1,035.72 COST OF POWER PURCHASES - FUEL COST a KANUPP - Note 1 b TAPAL GPPA-G - Note 2 ANOUD POWER FINT IND (IIL) MILES. GUL AHMED MILES.	K GHARO SOLAR GWh 10.551 LOTTE GWh 4 067 TOTAL GWh 725.620 COST OF POWER PURCHASES - FUEL COST A KANUPP - Note 1 Mill Rs 1,068.069 C GUL AHMED Mill Rs 952.481 C CPPA-G - Note 2 Mill Rs 2,017.288 A NOUD POWER Mill Rs 382.300 FF8L Mill Rs 441.122 OURSUN Mill Rs 5.740 G FPA-G - 150 MW - Note 2 Mill Rs 9.52 K GHARO SOLAR Mill Rs 5.9079 TOTAL Mill Rs 5.299.675 FUEL COST / UNIT RS / kwh 15.057 G GUL AHMED RS / kwh 15.022 G GUL AHMED RS / kwh 15.022 G CPPA-G - Note 2 RS / kwh 15.022 G GUL AHMED RS / kwh 10.659 FFBL RS / kwh 10.659 FFBL RS / kwh 9.414 H S NPC RS / kwh 10.659 FFBL RS / kwh 10.659 FFBL RS / kwh 6.836 G CPPA-G - 150 MW - Note 2 RS / kwh 10.659 FFBL RS / kwh 6.836 G CPPA-G - 150 MW - Note 2 RS / kwh 6.836 G OURSUN RS / kwh 14.783 G CPPA-G - 150 MW - Note 2 RS / kwh 6.836 G OURSUN RS / kwh 14.783 G CPPA-G - 150 MW - Note 2 RS / kwh 14.783 K GHARO SOLAR RS / kwh 14.783 K GHARO SOLAR RS / kwh 14.783 G CPPA-G - 150 MW - Note 2 RS / kwh 14.783 K GHARO SOLAR RS / kwh 14.526 VARIATION IN COST OF FUEL - POWER PLIRCHASES Units Sent out: U	8.52	8.820	GWh		
LOTTE	LOTTE	47.02	18.768	GWh		-
TOTAL COST OF POWER PURCHASES - FUEL COST a KANUPP - Note 1 b TAPAL MILES GUL AHMED MILES GOVA	TOTAL GWh 725.620	10.94	10.561	GWh		k GHARO SOLAR
COST OF POWER PURCHASES - FUEL COST 3 KANUPP - Note 1	COST OF POWER PURCHASES - FUEL COST a KANUPP - Note 1	7.33	4.057	GWh		I LOTTE
a KANUPP - Note 1 b TAPAL c GUL AHMED d Mill Rs. 1,068.069 948.11 c GUL AHMED d Mill Rs. 952.451 948.14 d CPPA-G - Note 2 e ANOUD POWER f INT IND (IIL) Mill Rs. 67.740 36.83 g FF8L Mill Rs. 382.300 377.72 Mill Rs. 382.300 377.72 Mill Rs. 382.300 377.72 Mill Rs. 441.122 485.46 i OURSUN Mill Rs. 99.769 290.18 KGHARO SOLAR Mill Rs. 89.769 290.18 GHARO SOLAR Mill Rs. 5.90.79 111.88 FUEL COST / UNIT a KANUPP - Note 1 b KANUPP - Note 1 c GUL AHMED d KANUPP - Note 1 b TAPAL c GUL AHMED d Rs./kwh 14.035 13.27 e ANOUD POWER f INT IND (IIL) n Rs./kwh 15.057 16.06 c GUL AHMED n Rs./kwh 15.057 16.30 d CPPA-G - Note 2 e Rs./kwh 15.057 16.30 d CPPA-G - Note 2 e Rs./kwh 10.659 10.650 g FFBL Rs./kwh 10.659 10.650 g GHARO SOLAR Rs./kwh 10.659 10.650 g FFBL Rs./kwh 10.659 10.650 10.857 kwh 10.659 10.650 10.857 kwh 10.659 10.650 10.857 10.857 10.858/kwh 10.659 10.650 10.857 10.857 10.858/kwh 10.659 10.650 10.857	a KANUPP - Note 1	1,035.70	725.620	GWh		TOTAL
a KANUPP - Note 1 b TAPAL c GUL AHMED d Mill Rs. 1,068.069 948.11 c GUL AHMED d Mill Rs. 952.451 948.14 d CPPA-G - Note 2 e ANOUD POWER f INT IND (IIL) Mill Rs. 67.740 36.83 g FF8L Mill Rs. 382.300 377.72 Mill Rs. 382.300 377.72 Mill Rs. 382.300 377.72 Mill Rs. 441.122 485.46 i OURSUN Mill Rs. 99.769 290.18 KGHARO SOLAR Mill Rs. 89.769 290.18 GHARO SOLAR Mill Rs. 5.90.79 111.88 FUEL COST / UNIT a KANUPP - Note 1 b KANUPP - Note 1 c GUL AHMED d KANUPP - Note 1 b TAPAL c GUL AHMED d Rs./kwh 14.035 13.27 e ANOUD POWER f INT IND (IIL) n Rs./kwh 15.057 16.06 c GUL AHMED n Rs./kwh 15.057 16.30 d CPPA-G - Note 2 e Rs./kwh 15.057 16.30 d CPPA-G - Note 2 e Rs./kwh 10.659 10.650 g FFBL Rs./kwh 10.659 10.650 g GHARO SOLAR Rs./kwh 10.659 10.650 g FFBL Rs./kwh 10.659 10.650 10.857 kwh 10.659 10.650 10.857 kwh 10.659 10.650 10.857 10.857 10.858/kwh 10.659 10.650 10.857 10.857 10.858/kwh 10.659 10.650 10.857	a KANUPP - Note 1					COST OF BOWER BURCHASES FUEL COST
b TAPAL c GUL AHMED d CPPA-G Note 2 ANOUD POWER f INT IND (IIL) g FFBL b TAPAL d Mill Rs. d CPPA-G Note 2 ANOUD POWER f INT IND (IIL) g FFBL b Mill Rs. d CPPA-G Note 2 ANOUD POWER f INT IND (IIL) g FFBL b Mill Rs. d CPPA-G Note 2 ANOUD POWER f INT IND (IIL) g FFBL b Mill Rs. d CPPA-G Note 2 ANOUD POWER f Mill Rs. d CPPA-G Note 2 ANOUD POWER f Mill Rs. d CPPA-G Note 2 ANOUD POWER f Mill Rs. d CPPA-G Note 2 ANOUD POWER f Mill Rs. d CPPA-G Note 2 ANOUD POWER f Mill Rs. d CPPA-G Note 2 ANOUD POWER f INT IND (IIL) g FFBL ANOUD POWER f INT IND (IIL) g FFBL ANOUD POWER f INT IND (IIL) g FFBL ANOUD POWER ANOUD POWER f INT IND (IIL) g FFBL ANOUD POWER ANO	C GUL AHMED Mill Rs. 952.481 d CPPA-G - Note 2 Mill Rs. 2,017.288 e ANOUD POWER Mill Rs. 67.740 g FF8L Mill Rs. 382.300 h SNPC Mill Rs. 441.122 UNISUN Mill Rs. 89.769 k GHARO SOLAR Mill Rs. 89.769 t LOTTE Mill Rs. 5.299.675 FUEL COST / UNIT AKNUP - Note 1 Rs./kwh 14.035 b TAPAL Rs./kwh 15.057 c GUL AHMED RS./kwh 15.	271.08	221.828	Mill Rs.		
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a KANUPP - Note 1 Rs./kwh 14.035 13.27 b TAPAL Rs./kwh 15.057 16.06 c GUL AHMED Rs./kwh 15.022 16.30 d CPP4-G - Note 2 Rs./kwh 4.783 5.17 e ANOUD POWER Rs./kwh 4.783 6.17 f INT IND (IIL) Rs./kwh 10.659 10.66 g FFBL Rs./kwh 10.659 10.66 g FFBL Rs./kwh 10.659 10.66 g FFBL Rs./kwh 9.414 9.37 h SNPC Rs./kwh 6.836 6.83 i OURSUN Rs./kwh 4.783 6.17 k GHARO 50 LAR Rs./kwh 4.783 6.17 k GHARO 50 LAR Rs./kwh 14.526 15.25 VARIATION IN COST OF FUEL - POWER PURCHASES 4a Cost of Fuel - Power Purchases a Mill Rs. 5,299.675 7,826.94 Units Sent Out - KE GWh 843.050 970.67 Units Sent Out - KE GWh 725.620 1,035.70	a KANUPP Note 1 Rs./kwh 14.035 b TAPAL Rs./kwh 15.057 c GUL AHMED Rs./kwh 15.022 d CPP4-G Note 2 Rs./kwh 4.783 e ANOUD POWER Rs./kwh 10.659 f INT IND (IIL) Rs./kwh 10.659 g FFBL Rs./kwh 9.414 h SNPC Rs./kwh 6.836 i OURSUN Rs./kwh - j CPPA-G - 150 MW · Note 2 Rs./kwh 4.783 k GHARO 50 LAR Rs./kwh 1 LOTTE Rs./kwh 14.526 VARIATION IN COST OF FUEL - POWER PLIRCHASES Units Sent out: Units Sent out: GWh 843.050	7,826.945	5,299.675	Mill Ks.		TOTAL
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h SNPC	h SNPC	9.37	9,414	Rs./kwh		g FFBL
OURSUN	OURSUN			Rs./kwh		h SNPC
j CPPA-G - 150 MW - Note 2	j CPPA-G - 150 MW - Note 2 Rs./kwh 4.783 Rs./kwh 1.0TTE Rs./kwh 14.526 VARIATION IN COST OF FUEL - POWER PLIRCHASES 4a Cost of Fuel - Power Purchases a Milk Rs. 5,299.675 Units Sent out: Units Sent Out - KE GWh 843.050					i OURSUN
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4a Cost of Fuel - Power Purchases a Mili Rs. 5,299.675 7,826.949 Units Sent out: Units Sent Out - KE Units - Power Purchases GWh 725.620 1,035.70 4b Total Units Sent Out b GWh 1,568.671 2,006.37 4c Cost per unit c = a/b Rs./kwh 3.378 3.900 4d Variation per unit (Cost of Fuel - Power Purchases) Rs./kwh 0.523	4a Cost of Fuel - Power Purchases a Mili Rs. 5,299.675 Units Sent out: Units Sent Out - KE GWh 843.050	15.25	14.526			
Units Sent out: GWh 843.050 970.57 Units Sent Out - KE GWh 725.620 1,035.70 4b Total Units Sent Out b GWh 1,568.671 2,006.37 4c Cost per unit c = a/b Rs./kwh 3.378 3.90 4d Variation per unit (Cost of Fuel - Power Purchases) Rs./kwh 0.52	Units Sent out: GWh 843.050					VARIATION IN COST OF FUEL - POWER PURCHASES
Units Sent Out - KE GWh 843.050 970.67 Units - Power Purchases GWh 725.620 1,035.70 4b Total Units Sent Out b GWh 1,568.671 2,006.37 4c Cost per unit c = a/b Rs./kwh 3.378 3.90 4d Variation per unit (Cost of Fuel - Power Purchases) Rs./kwh 0.523	Units Sent Out - KE GWh 843.050	7,826.949	5, 299.6 75	Mill Rs.	a	4a Cost of Fuel - Power Purchases
Units Sent Out - KE GWh 843.050 970.67 Units - Power Purchases GWh 725.620 1,035.70 4b Total Units Sent Out b GWh 1,568.671 2,006.37 4c Cost per unit c = a/b Rs./kwh 3.378 3.90 4d Variation per unit (Cost of Fuel - Power Purchases) Rs./kwh 0.52	Units Sent Out - KE GWh 843.050					Units Sept out:
Units - Power Purchases GWh 725.620 1,035.70 4b Total Units Sent Out b GWh 1,568.671 2,006.37 4c Cost per unit c = a/b Rs./kwh 3.378 3.90 4d Variation per unit (Cost of Fuel - Power Purchases) Rs./kwh 0.523		020.53	R42 050	GWb.		
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4d Variation per unit (Cost of Fuel - Power Purchases) Rs./kwh 0.52	As Cost assured:			• 4	_ 4	As Cost serveit
		3. 9 01	J.378		c = a/b	
As Variation amount (Cost of Cost Deves Developed)	4d Variation per unit (Cost of Fuel - Power Purchases) Rs./kwh	0.523		Rs./kwh		4d Variation per unit (Cost of Fuel - Power Purchases)
	4e Variation amount (Cost of Fuel - Power Purchases) Mill Rs.	1,048.501		NACH D-		do Variation amount (Cost of First Danier Break and

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

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

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

Ref No. KE/BPR/NEPRA/2021/1549

Subject: Monthly Cost Variation for the month of June 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 June 2021 along with relevant supports, for Authority's approval. Please note that the calculation for the month of June 2021 is based on CPPA-G's latest fuel cost determined by NEPRA for the month of April 2021 and it is subject to adjustment based on the determination for June 2021 to be issued by NEPRA.

Moreover, fuel cost (own plants) for June 2021 includes impact of GIDC arrears monthly installments for the month of June 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 June 2021 is as below;

Month	Variation Amount (PKR Million)	Variation per unit (PKR / kWh)
June-21	442	0.211

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.



Moreover, Heat rate test of BQPS | 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 January 2021 to May 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 June 2021
- Supporting Documents for June 2021

<u>K Electric Limited</u> SUMMARY OF REQUIRED ADJUSTMENT ON ACCOUNT OF VARIATION IN COST OF FUEL AND POWER PURCHASES

	DESCRIPTION		Unit	Mar-21	Jun-21
			1	Reference	Čurrent
A)	Cost of fuel:		_		
	Cost of fuel - KE		Mill Rs.	12,467.377	15,316.524
	Cost of fuel - Power Purchases	а	Mili Rs.	5,299.675	8,879.741
	Total		Mill Rs.	17,767.052	24,196.265
в) .	Units Sent Out				
-	Units Sent Out - KE		GWh	843.050	960.489
	Units - Power purchases	b	GWh _	725.620	1,136.789
	Total] GWh	1,568.671	2,097.278
C)	Cost per unit				
•	Cost of fuel - KE		Rs./kWh	7.948	7.303
	Cost of fuel - Power Purchases	c = a/b	Rs./kWh	3.378	4.234
	Average		Rs./kWh	11.326	11.537
D)	Variation per unit				-
-,	Cost of fuel - KE		Rs./kWh		(0.645)
	Cost of fuel - Power Purchases	d	Rs./kWh		0.855
	Total Fuel Cost Adjustment		Rs./kWh	_	0.833
		<u> </u>	Wash wash	=	0.211
E)	Total Fuel Cost Adjustment		Ps/kWh	· -	21.08
F)	Variation amount				
	Cost of fuel - KE		MIII Rs.		(1,352.084)
	Cost of fuel - Power Purchases	e = d x	Mill Rs.		1,794.193
	Total Fuel Cost Adjustment	b (total)	Mill Rs.	_	442.109

Work Sheet-Generation	Fuel Cost V.	ariation

DESCRIPTION		Mar-21	Jun-21
		Reference	Current
UNITS SENT OUT 16 UNITS SENT OUT ON FURNACE OIL			
I Bio Casim:			
tinit 1	GWh	81.139	102.15
Unit 2	GWh	63.802	94.88
Unit 3	GWh		\$1.55
Linit 4	GWh	•	•
Unit 5	GWh	84.178	70.37
Unit 6	GWh	63.433	26.78
Total units sent out on furnace oil - Bin Quales - 1	GW h	292.551	345.79
16 UNITS SENT OUT ON GAS			
i <u>Min Qasim - i</u>			
Unit 1	GWh	0.339	0.16
Unic 2	GWh	0.300	2.61
Unit 3	GWh	•	1.51
Unit 4 Unit 5	GWh GWh	-	
Unit 6	4	3.726	13.25
Unit 6 Total units sent out on gas - Bin Qasim - i	GWh GWh	10.748	22.69 40.24
- norm meise samt das rat fim . mit eftebatt . 1	GMI	12-114	70.21
il Bin Qusim il - 560 MW	GWh	93.123	74,59
III Korangi Town Gas Turbine II	GWh	10.053	4.56
lv Ske Gas Turbine II	GWh	5.178	4.13
∨ Korangi CCPP	GWh	17.167	15.83
Total units sent out on gas - KE	GWh	140.635	139.36
3c UNITS SENT OUT ON LNG			
6 Bin Quelm : 1			
Unit 1	GWh	0.724	0.47
Unit 2	GWh	0.641	7.72
Unit 4	GWh	•	4.48
Unit 5	GWh GWh		
Unit 6	GWh GWh	7.957 22.950	39.10 66.94
Total units sent out on Ling - Nin Qualm - I	ewn -	32.772	112.72
			220.72
d Bin Qasim ii - 560 MW	GWh	270.711	259.62
III Korangi Town Gas Turbine II	GWh	29.572	14.33
ty Site Gas Turbine II	GWh	16.622	13.01
V Korangi CCPP	GWh	60.688	49.69
Total units sent out on LNG - KE	gwh .	409.864	455.38
14 UNITS SENT OUT ON HSD			
Korangi CCPF - 220 MW	GWh	•	19.98
Total units sent out on HSD	GWh	-	19.96
Yotal units sent out KE	GWh	\$43.050	960.42
HEAT RATE AT BUS BAR			
i Bin Qaeim - 1			
Unit 1	81⊔/kWh	10,807	10,60
Unit 2	8tu/kWh	10,650	10,65
tink 3	Blu/kWh	10,996	10,99
Unit 4 Unit 5	Bru/kWh	10,899	10,89
Unit 5	Btu/kWh Btu/kWh	10,304 10,249	10,30
4 Bin Qasim II - S60 MW	Blu/kWh	10,249 8,381	10,24 8,38
III Korangi Town Gas Turbine II	Bbu/kWh	8,738	8,73
lv Site Ges Turbine B	Btu/kWh	8,746	8,74
v Korangi CCPP	Bu/kWh	8,497	8,49

Work Sheet- Gen	eration Fue	i Cost Variation
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### PURE PRICES 4a Fuel Price - Gas 4b Fuel Price - Case 4b Fuel Price - Funnace Oil RL/MMBTU 1,797 72,597 72,597 4c Fuel Price - Funnace Oil RL/MMBTU 1,797 11,77 4d Fuel Price - LING RL/MMBTU 1,797 11,77 4d Fuel Price - LING RL/MMBTU 1,461 1,55 5e Funnace Oil RL/MMBTU 1,461 1,574,918 1,944,961 Unit 1 Unit 1 MMB Rs. 1,220,960 1,741,781 Unit 2 MMB Rs. 1,220,960 1,741,781 Unit 3 MMB Rs. 1,555,727 1,761,761 Unit 4 MMB Rs. 1,555,727 1,761,761 Unit 1 MMB Rs. 1,552,577 6,522,577 6,	_	DESCRIPTION			Mar-21	Jun-21
### PRICES ### AF PRICES ### FOUNT PRICE - Gast ### Fount Price - Formace Off ### Fount					Reference	Current
### PRICES ### AF PRICES ### FOUNT PRICE - Gast ### Fount Price - Formace Off ### Fount		Calorific Value - Furnace Gil		Btu/kg	40.351	40,35
## Fuel Price - Gas ## Fuel Price - Formes OII ## Fuel Price - HSD ## Fuel Price - H					•	•
## Fuel Price - Fuences OII						
46 Foul Price - Furnace OR						
As Ford Price - LHG As Ford Price - LHG As Ford Price - HSD COST OF FUEL 39 Furnace sell 1 Min Carlon - 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 5 Unit 6 Total Cost of Furnace Oil - Bin Carlon - 1 Unit 1 Unit 1 Unit 2 Unit 1 Unit 2 Unit 1 Unit 2 Unit 3 Unit 1 Unit 1 Unit 2 Unit 3 Unit 1 Unit 1 Unit 2 Unit 3 Unit 3 Unit 1 Unit 2 Unit 3 Unit 3 Unit 1 Unit 1 Unit 2 Unit 3 Unit 3 Unit 4 Unit 5 Total Cost of Gas - Bin Carlon - 1 If Bin Caslon I - 550 MW As Size Cast Turbine II Violat 2 Violation - 1 If Bin Caslon I - 550 MW As Size Cast Unit Die II Violat 2 Unit 1 Unit 1 Unit 2 Unit 1 Init 2 Unit 3 Unit 4 Unit 1 Unit 2 Unit 3 Unit 4 Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Normal Corp Total Cost of LNG - Bin Qualan - 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Normal Corp Total Cost of Unit - Bin Qualan - 1 Will Re. 1, 1,244 Bin Qualan - 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of LNG - Bin Qualan - 1 Will Re. 1, 1,244 Bin Qualan - 1 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of LNG - Bin Qualan - 1 Will Re. 1, 1,241 Bin Qualan - 1,250 MW Mill Re. 1,245 Bin Qualan - 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of LNG - Bin Qualan - 1 Will Re. 1,245,277 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of LNG - Bin Qualan - 1 Total Cost of Fuel - KE Gu Units Sent Out - KE Gu						
46 Fuel Price - HSD COST OF FUEL 36 Parameter 201 38 Parameter 201 38 Parameter 201 38 Parameter 201 38 Parameter 201 Unit 1 Unit 1 Unit 2 Unit 2 Unit 3 Unit 4 Unit 5 Summer 201 Unit 1 Unit 2 Unit 3 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of Furnace Oil - Bin Casim - I Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of Gas - Bin Qualam - I II Bin Qualam - I SGO NW						
Section Parameter Parame				RE/MMBTU	1,461	1,57 2,71
Se Euroca et						
Bin Clasim - 1						
Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 7 Unit 8 Unit 8 Unit 8 Unit 9 Unit 9 Unit 9 Unit 9 Unit 9 Unit 1 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 1 Unit 2 Unit 3 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 8 Unit 8 Unit 8 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 7 Unit 7 Unit 8 Unit 8 Unit 8 Unit 8 Unit 8 Unit 8 Unit 9 Unit 1 Unit 9 Un		Bin Caster - I				
Unit 3 Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Unit 7 Unit 7 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 8 Unit 8 Unit 9 Unit 1 Unit 2 Unit 5 Unit 6 Unit 6 Unit 6 Unit 7 Unit 7 Unit 1 Unit 2 Unit 8 Unit 6 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 7 Unit 8 Unit 8 Unit 9 Unit 1 Unit 2 Unit 3 Unit 8 Unit 8 Unit 9 Unit 9 Unit 9 Unit 9 Unit 1 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 8 Unit 8 Unit 9 Unit 9 Unit 9 Unit 9 Unit 1 Unit 2 Unit 3 Unit 8 Unit 9 Unit 9 Unit 9 Unit 9 Unit 9 Unit 9 Unit 1 Unit 1 Unit 9 Unit 1 Unit 1 Unit 9 Un						
Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Unit 7 Unit 16 Unit 16 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 2 Unit 3 Unit 4 Unit 2 Unit 3 Unit 4 Unit 2 Unit 3 Unit 4 Unit 3 Unit 4 Unit 5 Unit 6 Unit 7 Unit 1 Unit 1 Unit 1 Unit 1 Unit 2 Unit 3 Unit 8 Unit 6 Unit 7 Unit 8 Unit 9 Unit 9 Unit 9 Unit 9 Unit 9 Unit 1 Unit 2 Unit 2 Unit 3 Unit 4 Unit 2 Unit 3 Unit 4 Unit 5 Unit 4 Unit 5 Unit 6 Unit 9 Unit 9 Unit 1 Unit 2 Unit 2 Unit 2 Unit 3 Unit 4 Unit 2 Unit 3 Unit 4 Unit 1						
Unit 5 Unit 6 Unit 6 Unit 6 Total Cost of Furnace Off - Bin Casim - Mill Rs. Unit 7 Unit 1 Unit 1 Unit 2 Unit 3 Unit 3 Unit 3 Unit 4 Unit 3 Unit 4 Unit 5 Unit 6 Unit 6 Unit 7 Unit 1 Unit 2 Unit 3 Unit 6 Unit 6 Unit 7 Unit 7 Unit 7 Unit 8 Unit 9 Unit 9 Unit 9 Unit 9 Unit 1 Unit 2 Unit 1						1,019.40
Unit 6 Total Cost of Furnace Off - Bin Qualim - S. 522.876					•	
Total Cost of Furnace Off - Bin Casim - I Sh Sale I Bin Qualitic - I Unit 1 Unit 2 Unit 3 Unit 3 Unit 4 Unit 5 Unit 5 Unit 6 Total Cost of Gas - Bin Qualitic - I I Bin Casim - I - S60 MW I Korangi Town Gas Turbine II Unit 1 Unit 1 I Bin Casim - I - S60 MW ARI R. St Gas Turbine II Unit 1 Unit 2 Unit 8 Sc Libis I Bin Qualitic - I I Bin Qualit						
Sh Gade						
Bin Casida _ Unit 1		Total Cost of Furnace Off - Bin Qusim - I		MIE Rs.	5,522.676	6,620.87
Unit 1 Unit 2 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Unit 5 Unit 6 Unit 7 Unit 6 Unit 7 Unit 7 Unit 8 Tatal Cast of Gas - Bin Qualm - i If Bin Qualm - i Unit 1 Unit 1 Unit 1 Unit 2 Init 1 Unit 2 Init 1 Unit 3 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of LNG - Bin Qualm - i If Bin Qualm - i Unit 1 Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of LNG - Bin Qualm - i If Bin Qualm - i Unit 7 Unit 8 Unit 8 Unit 8 Unit 8 Unit 9 Unit 9 Init 4 Unit 5 Unit 6 Init 8 Init 9						
Unit 2 Unit 3 Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Unit 5 Unit 6 Total Cast of Gas - Bin Qualen - I II Bin Casim II - 560 MW Wall Rs. II Site Gas Turbine II II Mill Rs. II Mill Rs. II June						
Unit 3 Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Unit 6 Tetal Cast of Gas - Bin Qualer - I If Bin Casler I - S60 MW R Korangi Town Gas Turbine II V Korangi CCPP Total Cost of Gas - KE Mill Rs. Jan. 194 356.07 Mill Rs. Jan. 195.22 Mill Rs. Jan. 195.00 Jan. 155.00 Jan. 15						
Unit 4 Unit 5 Unit 5 Unit 6 Unit 6 Mill Rs. Total Cast of Gas - Bin Qualin - 1 If Bin Casim N - 560 MW Rs. R Korangi Town Gas Turbine R R Korangi CCPP Mill Rs. Ste Gas Turbine R Mill Rs. Mil						
Unit 5 Unit 6 Unit 6 Unit 6 Unit 6 Unit 6 Unit 6 Total Cast of Gas - Bin Qualin - I H Bin Qualin II - 560 MW R Rus 133.194 335.67 I Bin Qualin II - 560 MW R Korangi Town Gas Turbine II Unit 1 Unit 2 Unit 3 Unit 4 Unit 3 Unit 4 Unit 5 Unit 6 Total Cost of LING - Bin Qualin - I I Bin Qualin II - 560 MW R Rus 119.749 I Bin Qualin II - 560 MW R Rus 343.550 I Bin Qualin II - 560 MW R Rus 343.550 I Bin Qualin II - 560 MW R Rus 343.550 I Bin Qualin II - 560 MW R Rus 343.550 I Bin Qualin II - 560 MW R Karangi Town Gas Turbine II Wall Rus 377.425 I Mill Rus 377.425 I Mil						14.33
Dink 6						4 - 4 - 4
Total Cast of Gas - Bin Qualin - I						
R Korangi Town Gas Turbine Mill Rs. 35,279 34,26 15 15 15 15 15 15 15 1						1379.37 356.07
R Korangi Town Gas Turbine Mill Rs. 35,279 34,26 15 15 15 15 15 15 15 1		N Bloggala N PER SEL			444.475	en-
Formal Corp Mill Rs. 38.809 30.92						
V Korangi CCPP Total Cost of Gas - KE Mili Rs. 125.006 115.22 Total Cost of Gas - KE Mili Rs. 1,641.129 1,072.23 Sc LMS i Bin Qasim - I Unit 1						
Total Cost of Gas - KE						
Set Color		v Korangi CCPP		Will Ur	125.006	115.27
Sto Qasim - Unit 1		Total Cost of Gas - KE		MW Hs.	1,641.129	1,072.22
Unit 1 Unit 2 Unit 2 Unit 3 Unit 3 Unit 4 Unit 5 Unit 6 Unit 5 Unit 6 Total Cost of LHG - Bin Qasim · 1 ### Bin Qasim il - 560 MW ### Bin Qasim il - 560 MW ### Bin Qasim il - 560 MW ### Ske Gas Turbine il ### Korangi CCPP ### Korangi CCPP ### Rs. ### Rs						
Unit 2 Mill Rs. 9,979 129.77 Unit 3 Mill Rs 77.61 Unit 4 Mill Rs 77.61 Unit 4 Mill Rs 77.61 Unit 5 Mill Rs 7.61 Unit 6 Mill Rs. 119.749 635.17 Unit 6 Mill Rs. 343.550 1.081.60 Total Cost of LNG - Bin Qasim - 1 Mill Rs. 343.550 1.081.60 It Rannell Town Gas Turbine II Mill Rs. 377.425 197.42 If Bin Qasim II - S60 MW Mill Rs. 377.425 197.42 Iv Ske Gas Turbine II Mill Rs. 212.332 179.45 Iv Ske Gas Turbine II Mill Rs. 753.186 665.66 Total Cost of LNG - KE Mill Rs. 5,141.413 8,404.92 I Korangi CCPP Mill Rs. 5,141.413 8,404.92 I Korangi CCPP - note 2 Mill Rs. 5,141.413 8,404.92 I Korangi CCPP - note 2 Mill Rs 456.33 Total Cost of HSD - KE Mill Rs 456.33 GIDC Arrears billed - Note 1 762.160 762.16 Gibt Lnits - Power Purchases GWh 845.050 960.48 I Little - Nover Purchases GWh 1,568.871 2,097.27 Bc Cost per Link c - a/b Rs./kWh 7.948 7.30 Gd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Gd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30						
Unit 3 Mill Rs 77.61 Unit 4 Mill Rs 77.61 Unit 5 Mill Rs. 119.749 635.17 Unit 6 Mill Rs. 343.550 1.081.60 Total Cost of LHG - Bin Qasim - 1 Mill Rs. 484.702 1.932.11 4 Bin Qasim I - 560 MW Mill Rs. 377.425 1.932.11 K Karangi Town Gas Turbine II Mill Rs. 377.425 1.932.11 V Korangi CCPP Mill Rs. 753.186 665.66 Total Cost of LNG - KE Mill Rs. 5,141.413 8,404.52 I Karangi CCPP - note 2 Mill Rs. 5,141.413 8,404.52 Total Cost of HSD - KE Mill Rs 456.33 Total Cost of HSD - KE Mill Rs 456.33 GIDC Arrears billed - Note 1 762.160 762.16 Verintion in Cost of Fuel - KE GWh 843.050 960.46 En Units Sent Out - KE GWh 843.050 960.46 En Units Sent Out - KE GWh 1,568.871 2,697.27 Ec Cost per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Ed Verintion per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Ed Verintion per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30		U110 -				
Unit 4 Unit 5 Unit 5 Unit 5 Unit 6 Unit 7 Unit 8 Un				14000		
Unit 5 Unit 6 Total Cost of LHG - Bin Qasim · 1 I Bin Qasim ii - S60 MW IR Ra.					, -	77,61
Unit 6 Total Cost of LHG - Bin Qasim - 1 # Bin Qasim - 1 - SE0 MW # Korangi Town Gas Turbine II						
Total Cost of LNG - Bin Qasim - I # Bin Qasim ij - S60 MW #R Korangi Town Gas Turbine II # Korangi Town Gas Turbine II # Korangi CCPP **Total Cost of LNG - KE ## MIR Rs. ## MIR Rs						
II Bin Qualim - 560 MW			•			
R Karangi Town Gas Turbine II Mill Rs. 377,425 197.44 19 kts Gas Turbine II Mill Rs. 212,332 179,48						
V Ske Gas Turbine Mill Rs. 212.332 179.45 V Korangi CCPP Mill Rs. 753.186 665.66 Total Cost of LNG - KE Mill Rs. 5,141.413 6,404.92 Sd MSD Korangi CCPP - note 2 Mill Rs. - 456.33 Total Cost of MSD - KE Mill Rs. - 456.33 Total Cost of MSD - KE Mill Rs. - 456.33 Total Cost of Fuel - KE Mill Rs. - 456.33 Total Cost of Fuel - KE a Mill Rs. - 456.33 Total Cost of Fuel - KE a Mill Rs. - 12,467.377 15,916.52 Verbation in Cost of Fuel - KE GWh 843.050 960.48 St Linits - Power Purchases GWh 1,568.871 2,097.27 Sc Cost per Linit c - a/b Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 Sd Verlation per unit (Cost of Fuel - KE) R						
v Korangi CCPP Mill Rs. 753,196 665,66 Total Cost of UNG - KE Mill Rs. 5,141,413 8,404,92 Sd HSD i Korangi CCPP - note 2 All Rs. - 456,33 Total Cost of HSD - KE NHII Rs. - 456,33 GIDC Arrears billed - Note 1 762,160 762,160 762,16 Total cost of Fuel - KE a MHI Rs. 12,467,377 15,216,52 Verintion in Cost of Fuel - KE GWh 848,050 960,48 56 Units Sent Out b GWh 1,588,871 2,097,27 56 Cost per unit c - a/b As,/kWh 7,948 7,30 6d Verlation per unit (Cost of Fuel - KE) Rs,/kWh (9,64						
Total Cost of UNI - KE 5,141.413						
Sd HSD i Korangi CCPP - note 2 ABII Rs. 456.33 Total Cost of HSD - KE Mill Rs. 458.33 GIDC Arrears billed - Note 1 762.160 762.16 Total cost of fuel - KE a Mill Rs. 12.467.377 15.216.52 Variation in Cost of Fuel - KE GWh 845.050 960.48 56 Units Sent Out - KE GWh 7.25.820 1.136.78 60 Units Sent Out b GWh 7.25.820 1.286.71 5c Cost per unit c - a/b As/kWh 7.948 7.30 6d Variation per unit (Cost of Fuel - KE) Rs./kWh (9.64		v Korangi CCPP		MIII Rs.	753.186	665.66
Korangi CCPP - note 2		Total Cost of LNQ - ICE		Mill Rs.	5,141.413	8,464,92
Total Cost of MSD - KE						
GIDC Arrears billed - Note 1 762.160 762.16 Total cost of fuel - KE a MRI Rs				MIII Rs.	-	456.33
Total cost of fuel - XE Varietion in Cost of Fuel - KE 69 Units Sent Out - KE 50 Units Sent Out - KE 50 Units Sent Out - KE 60 Units Sent Out - K		Total Cost of HSD - KE		MIII Ru.	-	456.33
Variation in Cost of Fuel - KE GWh 843.050 960.48 66 Units - Power Purchases GWh 725.620 1,136.78 Total Units - Sent Clut b GWh 1,548.871 2,097.27 6c Cost per unit c - a/b As./kWh 7.948 7.30 6d Variation per unit (Cost of Fuel - KE) Rs./kWh (6.64)		GIDC Arrears billed - Note 1			762.160	762.1 <i>6</i>
Variation in Cost of Fuel - KE GWh 843.050 960.48 66 Units - Power Purchases GWh 725.620 1,136.78 Total Units - Sent Clut b GWh 1,548.871 2,097.27 6c Cost per unit c - a/b As./kWh 7.948 7.30 6d Variation per unit (Cost of Fuel - KE) Rs./kWh (6.64)		Total cost of fuel - XE		MIII Rs.	12,467.377	15,316,52
6a Units Sent Out - KE GWh 843.050 960.48 6b Units - Power Purchases GWh 725.620 1,136.78 Tetal Units Sent Out b GWh 1,548.871 2,097.27 6c Cort per unit (Cost of Fuel - KE) Rs./kWh 7.948 7.30 6d Variation per unit (Cost of Fuel - KE) Rs./kWh (0.64		Variation in Cost of Eural - VF		'		
6h Units - Power Purchases GWh 725.820 1,136.78 Total Units Sent Out b GWh 1,548.871 2,097.27 Sc Cost per Unit c - a/b Rs./kWh 7.948 7.30 6d Variation per unit (Cost of Fuel - KE) Rs./kWh (0.64)				GHA	842.050	pen 40
Total Units Sent Out b GWh 1,568,871 2,697,27						
6d Verlation per unit (Cost of Fuel - RE) Rs/kWfs (0.64			ь			1,136.78 2,097.27
6d Verlation per unit (Cost of Fuel - RE) Rs/kWfs (0.64		Sc Cost per Linit	c - a/b	Rs./kWh	7.948	7,30
		Ad Verlation our unit (Cost of Stant , 1951		B. Dast		10

Note 1: Installment of GIDC arraars 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: NEPRA vide its letter dated June 29, 2021 approved the provisional cost of generation of KCCP at HSD, subject to final determination of heat rate on HSD. Accordingly, actual cost of HSD consumption has been used.

Work	Sheet- I	Power	Purc	hase	O&M	ana	Caj	pacity	LC	326	

DESCRIPTION			Mar-21	Jun-21
			Reference	Current
POWER PURCHASES				
a KANUPP		GWh	15.805	19.020
b TAPAL		GWh	70.936	74.622
c GULAHMED		GWh	63.407	80.024
d CPPA-G		GWh	421.762	776.622
e ANOUD POWER		GWh	-	-
f INTIND (IIL)		GWh	6.355	2.81
g FFBL		GWh	40.611	39.28
h SNPC		GWh	64.528	61.09
i OURSUN		GWh	8.820	7.40
j CPPA-G - 150 MW		GWh	18.768	60.10
k GHARO SOLAR		GWh	10.561	9.00
I LOTTE		GWh	4.067	6.77
m LUCKY		GWh		0.01
TOYAL		GWh	725.620	1,136.78
COST OF BOWER BURGUAGES SHELLOST				
a KANUPP - Note 1		Mill Rs.	221.828	297.29
b TAPAL		Mill Rs.	1,068.069	1,195.75
c GULAHMED		Mill Rs.	952.481	1,300.28
d CPPA-G - Note 2		Mili Rs.	2,017,288	4,792.92
& ANOUD POWER		Mill Rs.	•	•
f INT IND (IIL)		Mill Rs.	67.740	29.99
g FFBL		Mill Rs.	382.300	368.44
h SNPC		Mill Rs.	441.122	417.67
I OURSUN		Mill Rs.		
j CPPA-G - 150 MW - Note 2		Mill Rs.	89.769	370.95
k GHARO SOLAR		Mill Rs.	-	-
I LOTTE		Mili Rs.	59.079	106.27
m LUCKY		Mill Rs.	33.072	0.13
TOTAL		MIII Rs.	5,299.675	8,879.74
FUEL COST / UNIT		Rs./kwh	14.025	15.63
a KANUPP - Note 1			14.035	15.63
b TAPAL		Rs./kwh	15.057	16.02
c GUL AHMED ,		Rs./kwh	15.022	16.24
d CPPA-G - Note 2		Rs /kwh	4.783	6.17
a ANOUD POWER		Rs./kwh		· · · · ·
I INT IND (IIL)		Rs./kwh	10.659	10.66
g FFBL		Rs./kwh	9.414	9.37
h SNPC		Rs./kwh	6.836	6.83
I OURSUN		Rs./kwh		
j CPPA-G - 150 MW - Note 2		Rs./kwh	4.783	6.17
k GHARO SOLAR		Rs./kwh	-	-
I LOTTE		Rs./kwh	14.526	15.67
m LUCKY				9.556
VARIATION IN COST OF FUEL - POWER PURCLIASES				
4a Cost of Fuel - Power Purchases	a	Mill Rs.	5,299.675	8,879.74
Units Sent out:				
Units Sent Out - KE		GWh	843.050	960.48
Units - Power Purchases		GWh	725.620	1,136,78
4b Total Unit; Sent Out	b	GWh	1,568.671	2,097.27
4c Cost per unit	c = a/b	Rs./kwh	3.378	4.23
4d Variation per unit (Cost of Fuel - Power Purchases)		Rs./kwh	3.376	
		ns / wn		0.85

Note 1: Kenupp details are provisional for the month of June-21 as the involce for the month is yet to be received.

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