K Electric Limited

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

	DESCRIPTION		Unit	Sep-21	Oct-21
				Current	Current
A)	Cost of fuel:		-		
	Cost of fuel - KE	a	Mill Rs.	18,805.681	16,617.237
	Cost of fuel - Power Purchases	b	Mill Rs.	8,768.235	11,333.306
	Total	c = a + b	Mill Rs.	27,573.916	27,950.543
В)	Units Sent Out				
	Units Sent Out - KE	d	GWh	903.393	758.139
	Units - Power purchases	e	GWh	1,018.610	1,018.840
	Total	f = d + e	GWh	1,922.003	1,776.978
C)	Cost per unit on respective Sent Out				
•	Cost of fuel - KE	g = a / d	Rs./kWh	20.817	21.918
	Cost of fuel - Power Purchases	h = b / e	Rs./kWh	8.608	11.124
	Weighted Average Cost / Total cost per unit	i = c / f	Rs./kWh	14.346	15.729
D)	Cost per unit on total sent out - Note 1				
-,	Cost of fuel - KE on total sent out	j = a / f	Rs./kWh	9.784	9.351
	Cost of fuel - Power Purchases on total sent out	k = b / f	Rs./kWh	4.562	6.378
	Weighted Average Cost / Total cost per unit	I = c / f	Rs./kWh	14.346	15.729
E)	Variation per unit - Note 2				
L)	Cost of fuel - KE	m	Rs./kWh		(0.433)
	Cost of fuel - Power Purchases	n	Rs./kWh		1.816
	Total Fuel Cost Adjustment	o = m + n	Rs./kWh	-	1.383
F)	Total Fuel Cost Adjustment		Ps/kWh	-	138.28
G)	Variation amount				
-,	Cost of fuel - KE	r = m x f	Mill Rs.		(769.465)
	Cost of fuel - Power Purchases	$s = n \times f$	Mill Rs.		3,226.676
	Total Fuel Cost Adjustment	t = r + s	Mill Rs.	-	2,457.211
				=	,

Note 1: As per mechanism given in MYT, weighted average cost for KE's fuel cost and power purchase is calculated by dividing fuel cost with total units sent out (KE+power purchase) in GWh as per Annexure II & III of MYT Decision

Note 2: Calculated as difference of current and reference month of cost per unit for the month

DESCRIPTION		Sep-21	Oct-21
LINITS SENT OUT		Current	Current
1a UNITS SENT OUT ON FURNACE OIL			
i Bin Qasim - I			
Unit 1	GWh	91.214	49.50
Unit 2	GWh	91.258	54.42
Unit 3	GWh	-	-
Unit 4	GWh	-	-
Unit 5	GWh	90.608	63.12
Unit 6	GWh	15.297	10.4
Total units sent out on furnace oil - Bin Qasim - I	GWh	288.377	177.4
1b UNITS SENT OUT ON GAS			
i Bin Qasim - I			
Unit 1	GWh	0.059	0.0
Unit 2	GWh	0.477	0.5
Unit 3	GWh	-	-
Unit 4	GWh	-	-
Unit 5	GWh	3.418	3.7
Unit 6	GWh	22.557	17.2
Total units sent out on gas - Bin Qasim - I	GWh	26.511	21.6
ii Bin Qasim II - 560 MW	GWh	76.853	66.0
iii Korangi Town Gas Turbine II	GWh	6.313	4.5
iv Site Gas Turbine II	GWh	4.798	3.7
v Korangi CCPP	GWh	15.682	8.6
Total units sent out on gas - KE	GWh	130.157	104.7
1c UNITS SENT OUT ON LNG			
i Bin Qasim - I			
Unit 1	GWh	0.195	0.2
Unit 2	GWh	1.580	2.3
Unit 3	GWh	-	-
Unit 4	GWh	-	-
Unit 5	GWh	11.321	16.4
Unit 6	GWh	74.706	74.9
Total units sent out on LNG - Bin Qasim - I	GWh	87.802	93.9
ii Bin Qasim II - 560 MW	GWh	261.780	287.6
iii Korangi Town Gas Turbine II	GWh	21.567	18.4
iv Site Gas Turbine II	GWh	16.343	16.1
v Korangi CCPP	GWh	52.870	34.2
Total units sent out on LNG - KE	GWh	440.361	450.4
1d UNITS SENT OUT ON HSD			
i Korangi CCPP - 220 MW	GWh	44.498	25.4
Total units sent out on HSD	GWh	44.498	25.4
Total units sent out KE	GWh	903.393	758.1
HEAT RATE AT BUS BAR			
i Bin Qasim - I			
Unit 1	Btu/kWh	10,802	10,8
Unit 2	Btu/kWh	10,650	10,6
Unit 3	Btu/kWh	10,996	10,9
Unit 4	Btu/kWh	10,899	10,8
Unit 5	Btu/kWh	10,304	10,3
Unit 6	Btu/kWh	10,249	10,2
ii Bin Qasim II - 560 MW	Btu/kWh	8,381	8,3
	Btu/kWh	8,738	9,0
iii Korangi Town Gas Turbine II			
iii Korangi Town Gas Turbine II iv Site Gas Turbine II			8.7
iii Korangi Town Gas Turbine II iv Site Gas Turbine II v Korangi CCPP	Btu/kWh Btu/kWh	8,746 8,497	8,74 8,4

	DESCRIPTION			Sep-21	Oct-21
			-	Current	Current
3	Calorific Value - Furnace Oil		Btu/kg	40,351	40,351
4	FUEL DRICES				
4	FUEL PRICES 4a Fuel Price - Gas		Rs./MMBTU	857	857
	4b Fuel Price - Furnace Oil		Rs./Mton	92,313	98,558
	4c Fuel Price - Furnace Oil		Rs./MMBTU	2,288	2,443
	4d Fuel Price - LNG		Rs./MMBTU	2,545	2,676
	4e Fuel Price - HSD		Rs./MMBTU	2,739	2,967
5	COST OF FUEL				
	5a <u>Furnace oil</u>				
	i Bin Qasim - I				
	Unit 1		Mill Rs.	2,254.114	1,306.252
	Unit 2 Unit 3		Mill Rs. Mill Rs.	2,223.459	1,415.773
	Unit 4		Mill Rs.	-	-
	Unit 5		Mill Rs.	2 125 002	1 500 665
	Unit 6		Mill Rs.	2,135.903	1,588.665
	Total Cost of Furnace Oil - Bin Qasim - I		Mill Rs.	358.660 6,972.136	261.357 4,572.047
	5b Gas				
	i Bin Qasim - I				
	Unit 1		Mill Rs.	0.545	0.548
	Unit 2		Mill Rs.	4.353	4.935
	Unit 3		Mill Rs.	-	-
	Unit 4		Mill Rs.		
	Unit 5		Mill Rs.	30.185	33.476
	Unit 6 Total Cost of Gas - Bin Qasim - I		Mill Rs. Mill Rs.	198.125 233.207	151.508 190.467
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	ii Bin Qasim II - 560 MW		Mill Rs.	551.982	474.724
	iii Korangi Town Gas Turbine II		Mill Rs.	47.272	35.496
	iv Site Gas Turbine II		Mill Rs. Mill Rs.	35.965	27.919
	v Korangi CCPP		IVIIII KS.	114.193	63.259
	Total Cost of Gas - KE		Mill Rs.	982.619	791.864
	5c LNG				
	i Bin Qasim - I		14'II D :	5.255	7 425
	Unit 1 Unit 2		Mill Rs. Mill Rs.	5.355 42.808	7.435 66.938
	Unit 3		Mill Rs.	42.000	-
	Unit 4		Mill Rs.	-	-
	Unit 5		Mill Rs.	296.854	454.071
	Unit 6		Mill Rs.	1,948.453	2,055.075
	Total Cost of LNG - Bin Qasim - I		Mill Rs.	2,293.471	2,583.519
	ii Bin Qasim II - 560 MW		Mill Rs.	5,583.017	6,451.299
	iii Korangi Town Gas Turbine II		Mill Rs.	479.562	449.139
	iv Site Gas Turbine II		Mill Rs.	363.743	377.603
	v Korangi CCPP		Mill Rs.	1,143.204	779.614
	Total Cost of LNG - KE		Mill Rs.	9,862.996	10,641.174
	5d HSD				
	i Korangi CCPP - note 2		Mill Rs.	987.930	612.153
	Total Cost of HSD - KE		Mill Rs.	987.930	612.153
	GIDC Arrears billed - Note 1				
	Total cost of fuel - KE	a	Mill Rs.	18,805.681	16,617.237
		a	- IVIIII 113.	10,003.001	10,017.237
6	Variation in Cost of Fuel - KE 6a Units Sent Out - KE		GWh	903.393	758.139
	6b Units - Power Purchases		GWh	1,018.610	1,018.840
	Total Units Sent Out	b	GWh	1,922.003	1,776.978
	6c Cost per unit	c = a/b	Rs./kWh	9.784	9.351
	6d Variation per unit (Cost of Fuel - KE)		Rs./kWh		(0.433)
	6e Variation amount (Cost of Fuel - KE)		Mill Rs.	-	(769.465)
	•			=	

Note 1: Installment of GIDC arrears amounting to PKR 762 million per month is being billed by SSGC as per Supreme court order dated November 02, 2020. However, NEPRA in its FCA decision for the month of June 2021 has stated "considering the fact that K-Electric has obtained stay order from the Honorable SHC in the matter, decided not to allow any amount on account of GIDC till final decision by the Honorable SHC in the matter". Accordingly, GIDC for the month of October 2021 will be claimed as per the final decision of Honorable SHC in the matter.

Note 2: NEPRA vide its letter dated June 29, 2021 approved the provisional cost of generation of KCCP at HSD at actual till August 2021, subject to final determination of heat rate on HSD. KE has submitted IE's report of HSD heat rate test to NEPRA and has requested to provisionally allow HSD Heat rates as per IE's test result & degrdation table, for September 2021 and onwards till determination by NEPRA, subject to adjustment based on final determination.

Current
-
59.175
62.015
773.176
-
4.461
37.676
63.198
7.504
-
8.691
2.722
0.222
1,018.840
-
1,286.140
1,339.096
7,667.200
-
47.532
507.454
411.308
-
-
-
72.454
2.121
1,333.306
-
21.735
21.593
9.917
-
10.655
13.469
6.508
-
-
-
26.618
9.5563
1,333.306
758.139
1,018.840
1,776.978
6.378
1.816
1.010
3,226.676

Note 1: CPPA-G's fuel cost for the month of October 2021 is based on the rate presented by NEPRA during FCA hearing of XW-DISCOs for the month of October 2021. KE would request NEPRA to adjust CPPA-G's rate for October 2021 based on final determination.