



# National Electric Power Regulatory Authority

Islamic Republic of Pakistan

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Registrar

No. NEPRA/TRF-133/KESC-2009/9787-9790

October 17, 2011

Subject:- **Determination of the Authority in the matter of Karachi Electric Supply Co. Ltd. (KESCL) Quarterly Adjustment in Tariff for the Quarter April 2011 to June 2011 & Yearly Indexation in the O&M Cost Component of KESCL for the Year 2011-2012 [Case No. NEPRA/TRF-133/KESCL-2009(6)]**  
Intimation of Determination of Tariff pursuant to Section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997)

Dear Sir,

Please find enclosed herewith the determination of the Authority along with schedule of electricity tariff, Annexure-I (13 pages) regarding quarterly adjustment for the quarter April 2011 to June 2011 and yearly indexation in the O&M cost component for the year 2011-2012 in respect of Karachi Electric Supply Company Ltd. in Case No. NEPRA/TRF-133/KESC-2009(6).

2. The determination is being intimated to the Federal Government for the purpose of notification of the approved tariff in the official gazette pursuant to Section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997) and Rule 16(11) of the National Electric Power Regulatory Authority Tariff (Standards and Procedure) Rules, 1998.

3. Please note that revised schedule of tariff attached to the determination as Annex-I is required to be notified in the official Gazette.

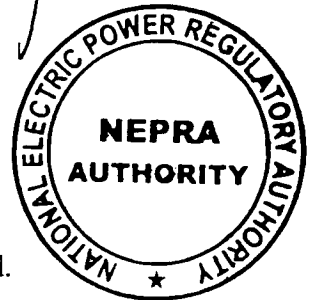
Enclosure: As above

Secretary,  
Ministry of Water & Power,  
'A' Block, Pak Secretariat,  
Islamabad

CC:

1. Secretary, Cabinet Division, Cabinet Secretariat, Islamabad.
2. Secretary, Ministry of Finance, 'Q' Block, Pak Secretariat, Islamabad.
3. Secretary, Privatization Commission, EAC Building, Islamabad.

  
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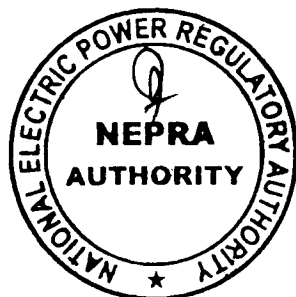




**DETERMINATION OF THE AUTHORITY IN THE MATTER OF KARACHI ELECTRIC  
SUPPLY COMPANY LIMITED QUARTERLY ADJUSTMENT IN TARIFF FOR THE  
QUARTER APRIL 2011 TO JUNE 2011 & YEARLY INDEXATION IN THE O&M COST  
COMPONENT OF KESCL FOR THE YEAR 2011-2012**

**BACKGROUND**

1. Pursuant to section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 and in accordance with the determination of the Authority in case No. NEPRA/TRF-133/KESC-2009(6) notified vide S.R.O. No. 11(I)/2010 dated January 01, 2010, Karachi Electric Supply Company Limited (hereinafter referred to as the "KESCL") has been allowed certain adjustments in its tariff on quarterly basis. The adjustments allowed in the KESCL's tariff on quarterly basis include the following:
  - Impact of variation in the fixed component of power purchase cost and variable operation and maintenance costs (hereinafter referred to as the "O&M costs") of power purchased by KESCL from the external sources is adjusted on quarterly basis.
  - The impact of transmission and distribution losses (hereinafter referred to as the "T & D losses") on the monthly fuel cost adjustment is adjusted on quarterly basis.
2. In addition to the aforesaid adjustments in tariff, for allowing KESCL recovery of its revenue in future on the latest price level, the tariff level is required to be adjusted to the price level of last month of the quarter i.e. in the current case the price level of June, 2011.
3. Further, KESCL's O&M cost component is adjusted for inflation on yearly basis. The adjustment/indexation is made in the O&M cost of each supply chain function undertaken by KESCL, i.e. Generation, Transmission and Distribution. It is referred as "CPI-X" mechanism in the determination as O&M cost components of each segment once indexed for inflation are subjected to reduction by certain approved efficiency factors.



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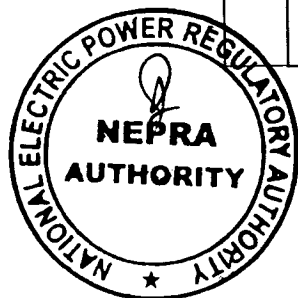
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### CURRENT REQUEST

4. KESCL, in accordance with the prescribed mechanism for adjustment of fuel cost and power purchase cost variation, submitted quarterly adjustment request for the quarter April, 2011 to June, 2011 (hereinafter referred to as the "current quarter") as well as yearly adjustment request applicable for the year 2011-2012 vide its letter No.CMF/NEPRA/071/762 dated July 22, 2011 received on July 27, 2011.
5. The summary of the requested adjustment by KESCL is tabulated below:

Sr. no	DESCRIPTION	Requested Adjustment
I	Fuel Price Variation of June, 2011 over March, 2011 (Ps/kWh)	72.564
	Power Purchase Price Variation of June, 2011 over March, 2011 (Ps/kWh)	(32.556)
	<b>Total Variation in Tariff (Ps/kWh)</b>	<b>40.008</b>
	<b>Un Recovered Costs for the period Apr-Jun, 2011</b>	
	Variation in O&M cost of IPPs and Other External Sources (Mill Rs)	23.729
	Variation in Capacity charges of IPPs and Other External Sources (Mill Rs)	(146.269)
	Un-recovered cost of fuel due to non-adjustment of T&D losses (Mill Rs)	(14.587)
	Adjustment of over/under recovered cost of the previous quarter (Jan- Mar 11) (Mill Rs.)	48.480
	WWF and WPPF payment to Tapal and Gul Ahmed (Mill Rs.)	256.850
	Amortization of Mobilization advance Payment to Aggreko (Mill Rs.)	108.853
	Custom Duties Payment and Currency Adjustment of Aggreko (Mill Rs.)	69.032
	<b>Total Un-recovered cost Apr-Jun 2011 (Mill Rs.)</b>	<b>345.818</b>
	Estimated Units to be Sold Jul-Sep 2011 (GWh)	3201
ii	<b>Required Adjustments (Ps/kWh)</b>	<b>10.803</b>
iii	<b>Adjustment of cost of the previous quarter (Jan-Mar 11) recovered in the current quarter (Apr-Jun 11) (Ps/kWh)</b>	<b>(23.431)</b>
iv	<b>CPI Adjustment</b>	<b>11.595</b>
	<b>Total Required Adjustment in KESCL's Tariff (Ps/kWh) (i+ii+iii+iv)</b>	<b>38.976</b>





## PUBLIC HEARING

6. Notwithstanding the fact that the requisite adjustments are to be made as per already determined/notified mechanism, however, the impact of such adjustments, if any, is to be passed on to the consumers, therefore, in order to meet with the ends of natural justice, the Authority considered it just and appropriate to provide an opportunity of hearing/filing of objections/comments to all the stakeholders. Accordingly, a hearing for consideration of the requested adjustments was scheduled by the Authority on August 16, 2011 at NEPRA, Main Office, Islamabad. KESCL's request was accordingly advertised in leading national newspapers on August 04, 2011, inviting thereby written/oral objections from the affected/interested persons/parties. Notices were also sent to the main stakeholders/experts to participate in the hearing to assist the Authority in arriving at a just and informed decision.
7. During the hearing, KESCL submitted that the major reasons for the increase in tariff being claimed are as follows:
  - Increase in fuel cost of KESCL's own generation as:
    - Price of furnace oil consumed by KESCL has increased by around 5% from Rs. 56,579 per metric ton for the month of March, 2011 i.e. reference month to Rs. 59,286 per metric ton for the month of June, 2011.
    - The generation on furnace oil has increased by around 46% from 199.987 GWh in the month of March 2011 to around 292.381 GWh in the month of June, 2011.
  - The power purchase cost of KESCL has decreased mainly due to decrease in the unit price of electric power purchased from NTDC. The energy transfer rate of NTDC for the month of June, 2011 was Rs. 6.359 against Rs. 7.123/kWh for the month of March, 2011, a decrease of around 11%.
8. During the course of hearing, the Authority inquired from KESCL about the status of conduct of heat rate tests of its three power plants, i.e. Korangi Combined Cycle, Korangi Gas Turbine-II and S.I.T.E Gas Turbine-II and directed it to carry out the requisite heat rate tests by September 15, 2011.
9. The Authority also took a serious notice of the practice adopted by KESCL of rounding off the bills to the nearest Rs. 100. The Authority was of the view that all the other DISCOs are charging the bills by rounding off to the nearest Rs. 1 and, therefore, directed KESCL to round off the bills to the nearest Rs.1 and apply this practice in the



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bills to be issued in the month of September, 2011. Accordingly, KESCL rounded off the bills issued by it in the month of September, 2011 to the nearest Rs. 1.

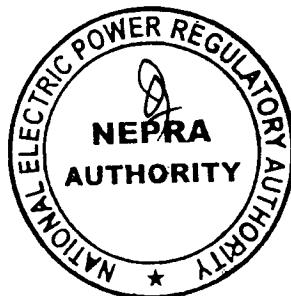
10. As per the directions of Authority, KESCL had to adjust the amount of Fuel Cost Adjustment (hereinafter referred to as "FCA") over/under charged by it due to misinterpretation of the order of the Authority pertaining to FCA for the period July, 2009 to March' 2010. During the hearing, the Authority directed its professionals to visit KESCL head office and verify the amount adjusted by KESCL on this account in the bills of consumers. Accordingly, the professionals of NEPRA visited the head office of KESCL, verified few bills of different categories of consumers on random basis and found the adjustment made by KESCL to be correct.

### ANALYSIS AND DECISION

11. The generation data, rates, etc. of KESCL (both from self generation and power purchased from external sources) were scrutinized with respective invoices and other underlying documents. KESCL's request for the current quarter has been discussed under the following headings:
- a) Changing the reference tariff from March, 2011 to June, 2011
  - b) Unrecovered costs for the current quarter
  - c) Reversal of tariff adjustment pertaining to the previous quarter i.e. January, 2011 to March, 2011 which was applicable for the current quarter only
  - d) Yearly Adjustment/Indexation in O&M cost components of KESCL own generation

a) Changing the reference tariff from March, 2011 to June, 2011

12. KESCL's existing tariff is based on the fuel prices, O&M costs and capacity charges of March, 2011. For allowing KESCL recovery of its tariff in future on the latest price level, it is required that KESCL's tariff be adjusted at the price level of June, 2011. Changing the tariff level requires allowing variations in the fuel cost of KESCL's own generation and allowing variations in the KESCL's power purchase cost including O&M costs and capacity charges of June, 2011 over the reference month of March, 2011.



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13. KESCL has requested for following adjustment in its tariff on this account:

		<b>Requested by KESCL</b>
<b>KESCL own generation</b>		
Fuel Cost variation of June, 2011 over March, 2011	Rupees in million	773.494
<b>KESCL purchases from external sources</b>		
Power purchase cost of June, 2011 over March, 2011	-- Do. --	(347.027)
<b>Total variation</b>	-- Do. --	<b>426.467</b>
Units sold at 23% T & D losses for June, 2011	GWh.	1065.946
<b>Required adjustment in tariff</b>	(Ps/kWh)	<b>40.008</b>

**KESCL own generation**

14. The Authority observed that the fuel cost of KESCL own generation has increased due to the following main reasons:

- Price of furnace oil consumed by KESCL has increased from Rs. 56,579 per metric ton in the month of March, 2011 to Rs. 59,286 per metric ton in the month of June, 2011.

Percentage of units generated on RFO (as a percentage of overall units generated by KESCL) in June, 2011 was about 40% compared to 35% of March, 2011.

**KESCL purchases from external sources**

15. The Authority observed that the overall power purchase cost from external sources of KESCL, i.e. fuel cost, O&M cost and capacity charges, has decreased from Rs. 10.055/kWh for the month of March, 2011 to Rs. 9.447/kWh for the month of June, 2011 i.e. a decrease of Rs. 0.608/kWh or 6%. It was further observed that KESCL purchased around 74% of its total power purchases for the month of June, 2011 from NTDC, whose unit price for the month of June, 2011 was Rs. 6.261 against Rs. 7.123/kWh for the month of March, 2011, i.e. a decrease of Rs. 0.862/kWh or around 12%.
16. The Authority also observed that KESCL, in its request, has used per kWh energy transfer rate as invoiced by NTDC for the purpose of working out the amount of power purchase cost variation. However, the energy transfer rate approved by the Authority for XWDISCOs was different from the one charged by NTDC (invoice rate: Rs. 6.359/kWh; Authority approved rate Rs. 6.261/kWh.). In accordance with earlier

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decisions of the Authority on this subject only variation from the energy transfer rates approved by the Authority have been used for computing the variation to be allowed.

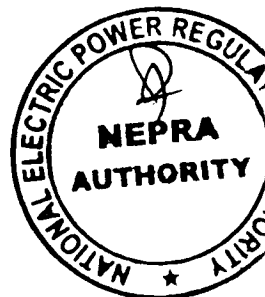
17. A comparative analysis of the adjustment in KESCL tariff required for bringing it to the tariff level of June, 2011, as requested by KESCL and as allowed by the Authority is tabulated below:

		<u>Requested by KESCL</u>	<u>Allowed by the Authority</u>
<b>KESCL own generation</b>			
Fuel cost variation of June, 2011 over March, 2011	Rupees in million	773.494	773.493
<b>KESCL purchases from external sources</b>			
Power purchase cost variation of June, 2011 over March, 2011	-- Do. --	(347.027)	(394.271)
<b>Total variation</b>	-- Do. --	<b>426.467</b>	<b>379.222</b>
Units sold at 23% T&D losses for June, 2011	GWh.	1065.946	1065.946
<b>Required adjustment in tariff</b>	(Ps/kWh)	<b>40.008</b>	<b>35.576</b>

**b) Unrecovered cost for the current quarter**

18. KESCL has requested for adjustment of the following unrecovered costs:

Description	Rs. in million
	Requested by KESCL
Variation in O&M costs of IPPs and other external sources	23.729
Variation in capacity charges of IPPs and other external sources	(146.269)
Un-recovered fuel cost due to non-adjustment of T&D losses in the monthly fuel cost adjustments	(14.587)
Adjustment of under-recovered cost of the previous quarter	48.480
Workers welfare fund and workers (profit) participation fund payment to Tapal Energy Ltd. and Gul Ahmed Energy Ltd.	256.850
Amortization of mobilization advance payment to Aggreko	108.853
Customs duties payment and currency adjustments of Aggreko	69.032
<b>Total</b>	<b>345.818</b>
Estimated units to be sold @ 21% T&D losses in the next quarter (July, 2011 to September, 2011) GWh	3201
<b>Required Adjustment in KESCL's tariff (Ps/kWh)</b>	<b>10.803</b>



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19. The monthly variation in O&M costs and capacity charges for the power purchased from external sources accumulated and not recovered in the current quarter is required to be adjusted in the quarterly tariff adjustment of KESCL. There was a difference of around Rs. 54 million in the variation of O&M cost of IPPs claimed by KESCL. This difference was on account of service charges of Aggreko for the month of April, 2011. The Authority observed that rental agreement of KESCL with Aggreko had already expired in March, 2011 and Aggreko had not supplied any electric power in the month of April, 2011. The Authority considering the said difference an error and not a willful misreporting by KESCL has reluctantly processed the request, but is of the view that the mistakes of the same nature in future should not be repeated, otherwise, the Authority will be constrained to penalize KESCL for making such false claims.
20. The un-recovered cost of fuel, by taking into account the impact of T&D losses, not allowed in the monthly fuel price adjustments for the current quarter is required to be taken care of on quarterly basis. It was observed that KESCL has used invoiced energy transfer rate charged by NTDC for the purpose of working out the amount of power purchase cost variation. However, the energy transfer rate approved by the Authority for XWDISCOs was different from the one charged by NTDC. In accordance with the earlier decisions of the Authority on this subject, energy transfer rate of NTDC as approved by the Authority has been considered for computing variation.
21. The Authority increased KESCL tariff by Ps.23.431/kWh, while approving quarterly adjustment for the quarter January, 2011 to March, 2011, for allowing recovery of Rs.798.534 million pertaining to that quarter. It was estimated that sales of KESCL during current quarter will be 3,408 GWh. Actual units sold based on the Authority's allowed 23% T&D losses for the current quarter work out to be 3,201 GWh due to which only Rs 750.054 million could be recovered, leaving a balance of Rs 48.480 million unrecovered. This unrecovered amount of Rs. 48.480 million is also required to be adjusted in the current quarter and accordingly is also a part of this adjustment.
22. KESCL has also requested adjustment of the following costs:

	<u>Million Rs.</u>
Workers welfare fund and workers (profit) participation fund payment to Tapal Energy Limited and Gul Ahmed Energy Limited	256.850
Amortization of mobilization advance payment to Aggreko	108.853
Customs duties payment and currency adjustments of Aggreko	69.032
	<hr/> <b>434.735</b> <hr/>



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23. While justifying these costs, KESCL submitted during the hearing that these are fixed components of power purchase cost and as per para 9, Annex-B of the Authority's determination of 2009, these costs should be allowed. KESCL further submitted that:
- The same cost is being allowed by the Authority for IPPs selling electric power to NTDC.
  - The PPAs of Tapal and Gul Ahmed had already been approved by the Authority.
  - The supplemental charges are defined as part of the tariff as per the approved PPAs and therefore these form part of the cost of power purchase.
24. The Authority considered that in 2002 a multiyear tariff with fixed base rate was approved for KESCL; and only variations in certain cost components, that is fuel cost, O&M cost and capacity charges were allowed to be passed on to the consumers during the multiyear tariff period. The latest determination of KESCL given by the Authority in December, 2009 was in line with the spirit of 2002 determination.
25. The Authority has found that the costs of workers welfare fund and workers (profit) participation fund of Tapal Energy Limited and Gul Ahmed Energy Limited have neither been claimed by KESCL in the past since 2002 nor allowed by the Authority to KESCL in any form. Moreover such costs, as per the respective PPAs, are required to be passed on through supplemental charges for which there is no provision under the current adjustment mechanism.
26. With regards to the costs associated with the mobilization advance and customs duties of Aggreko, the Authority observed that these costs are neither part of O&M cost nor of capacity charge of Aggreko's tariff. These are one time capital costs and cannot be allowed in the KESCL tariff.
27. Further, the Authority noted that these costs have already been disallowed by the Authority in its previous decisions due to the facts mentioned above. Therefore, the Authority is of the view that these costs/claims should not be included again in any tariff adjustment request submitted by KESCL.
28. It was also observed that KESCL in its latest request has estimated that 3,201 GWh will be sold @ 21% T&D losses in the next quarter (July, 2011 to September, 2011). It was noted that this estimated figure of sales does not agree with the figure of projected sales, i.e. 3108.624 GWh @ 21% T&D losses submitted by KESCL earlier. The Authority has used the projected sales figure of 3108.634 GWh for the calculation of un-recovered cost.

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29. A comparative analysis of the adjustment in KESCL tariff for the un-recovered costs of the quarter April, 2011 to June, 2011, to be recovered as per request by KESCL and calculations made by the Authority in the light of above discussions is tabulated below:

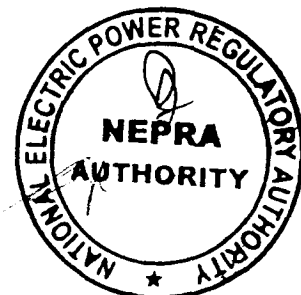
Description	Rs. in million	
	Requested by KESCL	Allowed by the Authority
Variation in O&M costs of IPPs and other external sources	23.729	(30.349)
Variation in capacity charges of IPPs and other external sources	(146.269)	(146.287)
Un-recovered fuel cost due to non-adjustment of T&D losses in the monthly fuel cost adjustments	(14.587)	(26.107)
Adjustment of un-recovered cost of the previous quarter	48.480	48.480
Workers welfare fund and workers (profit) participation fund payment to Tapal Energy Limited and Gul Ahmed Energy Limited	256.850	-
Amortization of mobilization advance payment to Aggreko	108.853	-
Customs duties payment and currency adjustments of Aggreko	69.032	-
<b>Total</b>	<b>345.818</b>	<b>(154.263)</b>
Estimated units to be sold @ 21% T&D losses in the next quarter (July 2011 to Sept 2011) GWh	<b>3201</b>	<b>3108.624</b>
<b>Required Adjustment in KESCL's tariff (Ps/kWh)</b>	<b>10.803</b>	<b>(4.962)</b>

30. The Authority, in light of the above discussion, has decided to decrease tariff by Ps. 4.962/kWh on account of over-recovered costs of the current quarter. This decrease will be applicable for the next quarter only i.e. July, 2011 to September, 2011 and will cease automatically at the end of that quarter. However, any amount which would remain un-recovered/ over-recovered on this account, due to variation in the actual number of units sold from the above estimated sales shall be adjusted in the tariff of subsequent quarter.

c) Reversal of tariff adjustment which was applicable for the current quarter only

31. The Authority in its previous quarterly adjustment pertaining to January, 2011 to March, 2011 allowed Ps. 23.431/kWh increase in KESCL's tariff for adjustment of unrecovered amount of Rs 798.534 million by KESCL. As per the direction in the same decision this increase of Ps. 23.431/kWh is required to be subtracted in the KESCL's current quarterly adjustment in order to nullify its impact in the schedule of tariff.

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**d) Yearly Adjustment/Indexation in O&M cost components of KESCL own generation**

32. As per the prescribed mechanism, KESCL's O&M cost components of Generation, Transmission and Distribution need to be adjusted on yearly basis for application of inflation in the tariff.
33. Further, KESCL's O&M components, once indexed, are subjected to reduction by certain efficiency factor till the expiry of the Multi Year Tariff period, i.e. June, 2016. The approved efficiency (X) factor is required to be applied to the O&M cost component of each supply chain function undertaken by KESCL. This mechanism is referred to as "CPI-X" mechanism.
34. The existing O&M cost, i.e. applicable for the year 2010-2011, along with the X factor for each segment is indicated hereunder:

Portion of Tariff to which CPI is applicable	Existing Tariff (Ps/kWh)	X Factor (%)
Generation O&M	20.60	2
Transmission O&M	8.24	2
Distribution O&M	81.64	3

35. The Authority prescribed the following Formula for the application of X factor and CPI on the O&M components of KESCL's tariff;

The O&M component of each segment (Generation, Transmission and Distribution) of tariff shall be varied to the extent of the change in CPI with respect to the CPI of the previous year as:

$$OM_1 = OM_0 * \left[ \frac{1 + \frac{(C_{PN} - C_{PO})}{100} - X}{C_{PO}} \right]$$

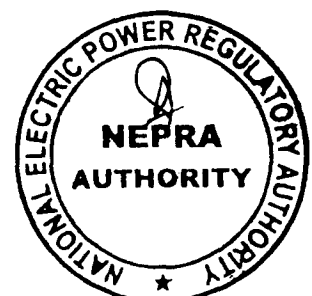
Where

- $OM_1$  is the revised O&M component
- $OM_0$  is the previous O&M component
- $C_{PN}$  is the new CPI
- $C_{PO}$  is the pervious CPI
- $X$  is the respective efficiency factor, for the concerned component as per Table above"

36. The CPI for the month of May, 2010 was 223.58, whereas CPI for the month of May, 2011 was 253.17 or an increase of 13.23%. Accordingly, the O&M cost components adjusted due to inflation and after the application of X Factor are as follows:

<u>Reference CPI May, 2010</u>	<u>223.58</u>
<u>Revised CPI May, 2011</u>	<u>253.17</u>

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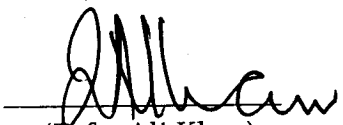


Variable O&M	Existing Ps/kWh	Requested By KESCL Ps/kWh	X Factor	Approved		Difference	
				Ps./kWh	Ps./kWh	Ps./kWh	
Generation	20.60	22.91	2	22.91	2.31	11.23%	
Transmission	8.24	9.17	2	9.17	0.93	11.23%	
Distribution	81.64	89.99	3	90.00	8.36	10.23%	
<b>Total</b>	<b>110.48</b>	<b>122.07</b>		<b>122.08</b>	<b>11.60</b>	<b>10.50%</b>	

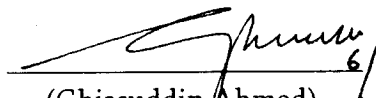
37. The overall cumulative increase in the KESCL's tariff for the current quarter as discussed in the preceding paragraphs works out to be Ps.18.783/kWh as detailed below:

	<u>Ps/kWh</u>
a) Changing the reference tariff from March 2011 to June, 2011	35.576
b) Unrecovered costs for the current quarter	(4.962)
c) Reversal of tariff adjustment which was applicable for the current quarter only	(23.431)
d) Yearly Indexation in O&M cost components	11.60
	<b>18.783</b>

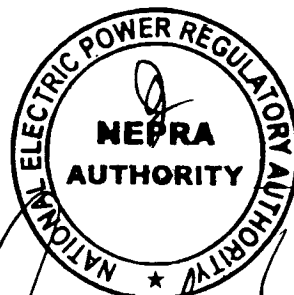
38. In order to allow adjustment in KESCL's tariff for the aforesaid cost variation for the current quarter, KESCL is allowed a uniform increase in consumer-end tariff for all consumer categories by paisa 19 per kWh except for the life-line consumers consuming up to 50 units per month. The revised schedule of tariff to be applicable from July 01, 2011 to September 30, 2011 is attached herewith as **Annexure-I**.

  
(Zafar Ali Khan)  
Member


Authority:

  
(Ghiasuddin Ahmed) 6/x/2011  
Member

★  
(Maqbool Ahmad Khawaja)  
Member



(Shaukat Ali Kundi)  
Member/Vice Chairman

  
(Khalid Saeed)  
Chairman

*Concern  
Non compliance of directives of Authority given in Determination 2009, non performance of heat rate test, underutilization of available plant, in my view does not qualify KESCL for such adjustments*

*In Willing*  
(N. AKHAR)  
MEMBER(S)

**SCHEDULE OF ELECTRICITY TARIFF  
FOR KARACHI ELECTRIC SUPPLY COMPANY LIMITED (KESCL)**

**A-1 GENERAL SUPPLY TARIFF - RESIDENTIAL**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kW/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
a)	For Sanctioned load less than 5 kW			
i	Up to 50 Units	-		2.00
	For Consumption exceeding 50 Units			
ii	1- 100 Units	-		12.88
iii	101- 300 Units	-		14.38
iv	301- 700 Units	-		16.58
v	Above 700 Units			18.18
b)	For Sanctioned load 5 kW & above			
	Time Of Use	-	19.18	13.18

Under tariff A-1, there shall be minimum monthly customer charge at the following rates even if no energy is consumed.

a) Single Phase Connections:

Rs. 75/- per consumer per month

b) Three Phase Connections:

Rs. 150/- per consumer per month

**A-2 GENERAL SUPPLY TARIFF - COMMERCIAL**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kW/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
a)	For Sanctioned load less than 5 kW			18.68
b)	For Sanctioned load 5 kW & above	400.00		15.88
	Time Of Use	400.00	20.18	14.68

Under tariff A-2, there shall be minimum monthly charges at the following rates even if no energy is consumed.

a) Single Phase Connections;

Rs. 175/- per consumer per month

b) Three Phase Connections:

Rs. 350/- per consumer per month

**B INDUSTRIAL SUPPLY TARIFFS**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kW/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
B1	Less than 5 kW (at 400/230 Volts)	-		15.18
B2(a)	5-500 kW (at 400 Volts)	400.00		13.78
B3(a)	For all loads upto 5000 KW (at 11,33 kV)	380.00		13.38
B4(a)	For all loads upto 5000 KW (at 66,132 kV)	360.00		12.98
	Time Of Use		19.18	12.93
B2(b)	5-500 kW (at 400 Volts)	400.00	19.18	12.93
B3(b)	For All Loads up to 5000 kW (at 11,33 kV)	380.00	18.68	12.43
B4(b)	For All Loads (at 66,132 kV & above)	360.00	18.18	12.18
B5	For All Loads (at 220 kV & above)	340.00	17.68	11.93

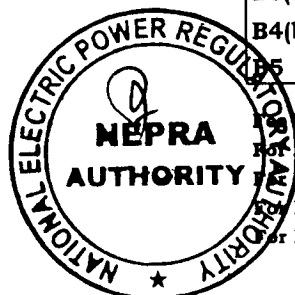
For B1 consumers there shall be a fixed minimum charge of Rs. 350 per month.

For B2 consumers there shall be a fixed minimum charge of Rs. 2,000 per month.

For B3 consumers there shall be a fixed minimum charge of Rs. 50,000 per month.

For B4 consumers there shall be a fixed minimum charge of Rs. 500,000 per month.

For B5 consumers there shall be a fixed minimum charge of Rs. 1000,000 per month.



**C - SINGLE POINT SUPPLY FOR PURCHASE IN BULK BY A DISTRIBUTION LICENSEE  
AND MIXED LOAD CONSUMERS NOT FALLING IN ANY OTHER CONSUMER CLASS**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kw/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
C -1	For supply at 400/230 Volts			
a)	Sanctioned load less than 5 kW	-		15.18
b)	Sanctioned load 5 kW & up to 500 kW	400.00		14.33
C -2(a)	For supply at 11,33 kV up to and including 5000 kW	380.00		14.33
C -3(a)	For supply at 132 and above, up to and including 5000 kW Time Of Use	360.00		14.18
C -1(c)	For supply at 400/230 Volts 5 kW & up to 500 kW	400.00	19.18	13.18
C -2(b)	For supply at 11,33 kV up to and including 5000 kW	380.00	18.68	12.38
C -3(b)	For supply at 132 kV up to and including 5000 kW	360.00	18.18	12.18

**D - AGRICULTURE TARIFF**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kw/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
D-1	For all Loads Time of Use	200.00		13.10
D-2	For all Loads	200.00	19.22	11.22

Note:- The consumers having sanctioned load less than 5 kW can opt for TOU metering.

**E - TEMPORARY SUPPLY TARIFFS**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kw/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
E-1(i)	Residential Supply	-		18.58
E-1(ii)	Commercial Supply	-		21.48
E-2 (i)	Industrial Supply	-		18.18
E-2 (ii)	Bulk Supply			
	(a) at 400 Volts	-		18.58
	(b) at 11 kV	-		18.18

For the categories of E-1(i&ii) and E-2 (i&ii) above, the minimum bill of the consumers shall be Rs. 50/- per day subject to a minimum of Rs.500/- for the entire period of supply, even if no energy is consumed.

**F - SEASONAL INDUSTRIAL SUPPLY TARIFF**

125% of relevant industrial tariff

Note:

*Tariff F consumers will have the option to convert to Regular Tariff and vice versa. This option can be exercised at the time of a new connection or at the beginning of the season. Once exercised, the option remains in force for at least one year.*

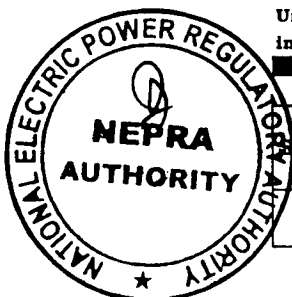
**G- PUBLIC LIGHTING**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kw/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
	Street Lighting	-		18.18

Under Tariff G, there shall be a minimum monthly charge of Rs.500/- per month per kW of lamp capacity installed.

**H - RESIDENTIAL COLONIES ATTACHED TO INDUSTRIAL PREMISES**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES Rs/kw/M	VARIABLE CHARGES Rs/kWh	
			Peak	Off-Peak
	Residential Colonies attached to industrial premises	-		16.18



*Handwritten signature or initials.*