



# महाराष्ट्र विद्युत नियामक आयोग

## Maharashtra Electricity Regulatory Commission

Ref. No. MERC/FAC/2023-2024/ 0390

Date: 24 July, 2023

To,  
The Managing Director,  
KRC Infrastructure and Projects Private Ltd.,  
Raheja Tower, Level-9, Block G,  
Plot No. C-30,  
Bandra Kurla Office Complex,  
Bandra (E), Mumbai – 400 051

**Subject:** Post facto approval of Fuel Adjustment Charges (FAC) submissions of KRCIPPL for the months of January 2022, February 2022, and March 2022 .

**Reference:** 1. KRCIPPL's FAC submission for the months of January 2022, February 2022, and March 2022 vide email dated 1 June, 2022.


Sir,

Upon vetting the FAC calculations for the months of January 2022, February 2022, and March 2022 as mentioned the above reference, the Commission has accorded approval for charging FAC to its consumers as shown in the table below:

Month	January 2022	February 2022	March 2022
Z <sub>FAC</sub> allowed for recovery (Rs. Crore)	-	-	-

The Commission allows the accumulation of FAC fund of Rs (1.66) Crore, (1.72) Crore and Rs. (1.55) Crore in the months of January 2022, February 2022 and March 2022, respectively. This balance is after adjusting the negative FAC for the months of January 2022 and February 2022 and positive FAC in the month of March 2022 in the opening FAC fund at the beginning of the respective months. The Commission allows the accumulation of FAC amount of Rs. (1.55) Crore which shall form part of FAC Fund and shall be carried forward to next FAC billing cycle with holding cost. Further, as directed in the said Order, KRCIPPL shall maintain the monthly account of FAC Fund and upload it on its website to maintain transparency of FAC Fund and also for information of all the stakeholders.

Yours faithfully,

  
(Dr. Rajendra G. Ambekar)  
Executive Director, MERC

**Encl:** Annexure A: Detailed Vetting Report for the period of January 2022 to March 2022 .

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**POST FACTO APPROVAL FOR FAC CHARGES FOR THE MONTHS OF JANUARY  
2022, FEBRUARY 2022, AND MARCH 2022**

**Subject:** Post facto approval of Fuel Adjustment Charges (FAC) submissions of KRCIPPL for the months of January 2022, February 2022, and March 2022 .

**Reference:** 1. KRCIPPL's FAC submission for the months of January 2022, February 2022, and March 2022 vide email dated 1 June, 2022.

**1. FAC submission by KRCIPPL:**

1.1 KRCIPPL has made FAC submissions for the months of January 2022, February 2022 and March 2022 as referred above. Upon vetting the FAC calculations, taking cognizance of all the submissions furnished by KRCIPPL, the Commission has accorded post facto approval for the FAC amount to be charged in the billing months of March 2022, April 2022, and May 2022.

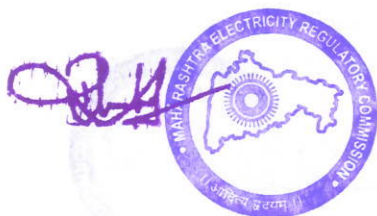
**2. Background**

2.1 On 30 March, 2020 the Commission has issued Tariff Order in respect of KRCIPPL (Case No. 329 of 2019) for approval of Aggregate Revenue Requirement and Multi Year Tariff for the Control Period from FY 2020-21 to FY 2024-25. Revised Tariff has been made applicable from 1 April, 2020.

2.2 Vide its letter dated 20 April, 2020, the Commission communicated the excel formats and guiding principles for filing of FAC submissions to all Distribution Licensees including SEZs. The Commission also directed all Distribution Licensees to submit FAC computations, including details pertaining to variation in fuel cost of generators for the approval of the Commission.

2.3 The summary of the FAC Vetting Report approvals granted by the Commission till date is given below:

- Prior approval to the FAC for the month of April, 2020 vide FAC vetting Report dated 7 June, 2020.
- Post-facto approval to the FAC for the months of May and June, 2020 vide FAC vetting Report dated 30 September, 2020.
- Post-facto approval to the FAC for the months of July 2020, August 2020, and September 2020 vide FAC vetting Report dated 08 December, 2020.



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

- Post-facto approval to the FAC for the months of October 2020, November 2020 and December 2020 vide FAC vetting Report dated 25 March, 2021.
  - Post-facto approval to the FAC for the month of January to March, 2021 vide FAC Vetting Report dated 10 June, 2021.
  - Post-facto approval to the FAC for the month of April 2021, May 2021, and June 2021 vide FAC Vetting Report dated 11 October, 2021.
  - Post-facto approval to the FAC for the month of July 2021, August 2021, and September 2021 vide FAC Vetting Report dated 25 November, 2021.
  - Post-facto approval to the FAC for the month of October 2021, November 2021 and December 2021 vide FAC Vetting Report dated 28 June, 2022.
- 2.4 As per provisions of MYT Regulations, 2019 a Distribution Licensee (SEZ) is required to obtain post-facto approval of the Commission on a quarterly basis for FAC charges within 60 days of close of each quarter. Accordingly, vide its letter dated 1 June, 2022 KRCIPPL has filed FAC submissions for the months of January 2022, February 2022 and March 2022 for post-facto approval. The Commission has scrutinized the submissions provided by KRCIPPL and has also verified the fuel and power purchase bills provided along with its submissions.

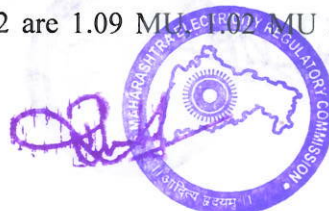
**3. Energy Sales of the Licensee**

- 3.1 In the MYT Order passed by the Commission in Case No. 329 of 2019, the Commission has approved revised tariffs to maintain zero cross subsidy across tariff categories.
- 3.2 The net energy sales within licence area as submitted by KRCIPPL in the FAC submission and as approved by the Commission are as shown in the Table 1 below:

**Table 1: Energy Sales approved and Actual in MUs**

Consumer Category	Approved by the Commission (MU) (I)	Monthly Approved (MU) (II=I/12)	Actual Sales (MU)		
			Jan - 22 (III)	Feb - 22 (IV)	Mar - 22 (V)
<b>HT Category</b>					
HT- I Industrial	30.37	2.53	0.87	0.83	1.30
HT-II Commercial	3.94	0.33	-	-	0.00
<b>LT Category</b>					
LT-II(A) Commercial (0-20 kW)	-	-	0.00	0.00	0.00
LT-II (B) Commercial (above 20 kW)	3.22	0.27	0.05	0.01	0.01
LT-III (A) Industrial (0-20 kW)	-	-	-	-	-
LT-III (B) Industrial (above 20 kW)	-	-	0.16	0.18	0.28
<b>Total</b>	<b>37.53</b>	<b>3.13</b>	<b>1.09</b>	<b>1.02</b>	<b>1.59</b>

- 3.3 It can be observed from above Table 1 that the actual sales during the months of January 2022, February 2022 and March 2022 are 1.09 MU, 1.02 MU and 1.59 MU respectively



which is **65.28%, 67.24%** and **49.16%** lower than approved monthly energy sales of 3.13 MU for January 2022, February 2022, and March 2022 . The variation was primarily observed in all categories except LT-III (B) Industrial (above 20 kW). However, the major variation was observed in the HT-I Industrial, HT-II Commercial and LT II B, which is due to the continuation of impact work for home in IT industry due to COVID-19 and seasonal variation. However, it can be observed that the sales in the month of March 2022 have increased due to resumption of offices in IT Industry.

#### **4. Power Purchase Details**

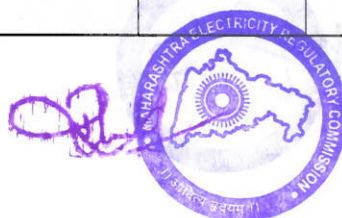
- 4.1 KRCIPPL is a deemed Distribution Licensee notified by the Commission for its IT & ITES SEZ located at Village Kharadi, Taluka Haveli, District Pune. KRCIPPL does not own or operate any generating stations. Accordingly, KRCIPPL is required to procure power from outside sources in order to fulfil the electricity demand of its consumers.
- 4.2 **Power procurement from Kreate Energy (I) Pvt. Ltd.:** KRCIPPL had a short term PPA with GMR Energy Trading Limited which was valid till May 2020 and which was subsequently extended till March 2021 with approval of the Commission. Subsequently, the Commission in its Order dated 30 June, 2021 in Case No. 69 of 2021 has approved the combined power procurement of for MBPPL, GEPL and KRCIPPL for FY 2021-22 on short-term basis. Accordingly, the Commission has provided the approval of Power Purchase Agreement and Adoption of Tariff determined through transparent bidding process for a Short-Term procurement of power up to 14 MW (RTC) for KRC discoms for one year starting from 1 July, 2021 to 30 June, 2022 through combined power procurement. In the said order, the quantum estimated for KRCIPPL is upto 3 MW (Up to 2 MW RTC and up to 1MW between 0800 and 2300 hours). The relevant extract is as given below:
- “Accordingly, the Commission approves PPA dated 27 May 2021 entered between KRC DISCOMs (MindSPACE Business Parks Private Limited; Gigaplex Estate Private Limited; KRC Infrastructure and Projects Private Limited) and Kreate Energy (I) Pvt. Ltd. – Power Department of Sikkim.”*
- 4.3 KRCIPPL has purchased power from Kreate Energy (I) Pvt. Ltd. at the rate of Rs. 3.18/kWh as approved by the Commission at Maharashtra State Periphery which is lower than the Power procurement cost of Rs. 3.92/kWh as approved by the Commission in Tariff Order in Case No. 329 of 2019 from the long/medium-term sources.
- 4.4 Further, KRCIPPL has also procured RE power through IEX in the GDAM during the months of February 2022 and March 2022. KRCIPPL purchased 0.01 MUs and 0.02 MUs of Solar and Non-Solar Power in February 2022 at an average rate of Rs. 6.93/kWh. Similarly, KRCIPPL purchased 0.11 MUs and 0.26 MUs of Solar and Non-Solar Power in March 2022 at an average rate of Rs. 8.82/kWh and Rs. 8.83/kWh.
- 4.5 In addition to the above, KRCIPPL also purchased Non-Solar RECs equivalent to 0.29 MUs in February 2022 at an average rate of Rs. 1.02/kWh.



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

- 4.6 The Commission observed that KRCIPPL procured nil quantum of RE power in the month of January 2022. The Commission also notes that KRCIPPL has purchased RE power through the power exchanges to meet the RPO obligations along with REC in the month of February 2022 and only RE power in the month of March 2022. While the Commission had allowed the KRC DISCOMs to procure RECs to meet the RPO obligations in the MYT order, the Commission in its Order in Case no. 231 of 2020 dated 23 January, 2021 has also permitted the KRC DISCOMs to procure RE power before FY 2022-23, so that the benefit of RE purchase can be passed on to the consumers. The power purchase has been through the power exchanges where the prices are market driven and competitively discovered.
- 4.7 KRCIPPL has also procured 0.12 MU of power from Power Exchange at average rates of Rs. 12.56/kWh during the month of March 2022. KRCIPPL has submitted that the increase in demand in the month of March 2022 has necessitated power procurement through Power Exchange after the contracted source was fully utilised to the extent possible.
- 4.8 Summary of power purchase of KRCIPPL is as under:

Sr. No.	Particular	Compliance								
1	Purchase from Approved Source	<b>Yes.</b> KRCIPPL has procured power from Kreate Energy (I) Pvt. Ltd during January 2022, February 2022, and March 2022 at Rs. 3.18/kWh in line with the approval from the Commission and as specified in Case No. 69 of 2021. The agreement was valid for the period of 1 July 2021 to 30 June 2022.								
2	Merit Order Dispatch	<b>Yes.</b> KRCIPPL has only one source of power i.e. Kreate Energy (I) Pvt. Ltd., which has been contracted on short term basis. KRCIPPL has followed merit order for scheduling of power and preference was given to cheapest power.								
3	Fuel Utilization Plan	<b>Not applicable.</b> All the sources of power procurement fall under Section 63 of EA, 2003.								
4	DSM Pool	KRCIPPL injected 0.11 MU and 0.01 MU in the months of January 2022 and February 2022 respectively into DSM pool. KRCIPPL has drawn 0.03 MU from the DSM pool in the month of March 2022.								
5	Sale of Surplus Power	No surplus power was available for sale in the months of January 2022 to March 2022.								
6	Power Purchase	Actual Power Purchase for consumers is 1.14 MU, 1.07 MU and 1.67 MU in the months of January 2022, February 2022, and March 2022 respectively, as against approved monthly power purchase of 3.32 MU due to lower sales.								
7	Source wise Power Purchase	<table border="1"> <thead> <tr> <th>Source Name</th> <th>Approved (MU)</th> <th>Actual January 2022 (MU)</th> <th>Proportion of each source in actual</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Source Name	Approved (MU)	Actual January 2022 (MU)	Proportion of each source in actual				
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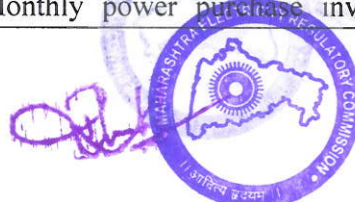
Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

Sr. No.	Particular	Compliance			
					purchase (%)
	RE Solar	Commission had approved REC purchase for FY 2021-2022	-	-	
	RE Non-Solar		-	-	
	Base Load – Long term / Medium Term Sources	3.32	-	-	
	Kreate Energy (I) Pvt. Ltd	-	1.25	109.73%	
	Exchange/Other Peak Sources	-	-	-	
	DSM Pool	-	(0.11)	-9.73%	
	Imbalance Pool	-	-	-	
	<b>Total</b>	<b>3.32</b>	<b>1.14</b>	<b>100.00%</b>	
	<b>Source Name</b>	<b>Approved (MU)</b>	<b>Actual February 2022 (MU)</b>	<b>Proportion of each source in actual purchase (%)</b>	
	RE Solar	Commission had approved REC purchase for FY 2021-2022	0.01	1.07%	
	RE Non-Solar		0.02	1.93%	
	Base Load – Long term / Medium Term Sources	3.32	-	-	
	Kreate Energy (I) Pvt. Ltd	-	1.05	97.71%	
	Exchange/Other Peak Sources	-	-	-	
	DSM Pool	-	(0.01)	-0.72%	
	<b>Total</b>	<b>3.32</b>	<b>1.07</b>	<b>100.00%</b>	
	<b>Source Name</b>	<b>Approved (MU)</b>	<b>Actual March 2022 (MU)</b>	<b>Proportion of each source in actual purchase (%)</b>	



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

Sr. No.	Particular	Compliance			
		RE Solar	Commission had approved REC purchase for FY 2021-2022	0.11	6.89%
		RE Non-Solar		0.26	15.56%
		Base Load – Long term / Medium Term Sources	3.32	-	-
		Kreate Energy (I) Pvt. Ltd	-	1.15	68.85%
		Exchange/Other Peak Sources	-	0.12	6.99%
		DSM Pool	-	0.03	1.71%
		<b>Total</b>	<b>3.32</b>	<b>1.67</b>	<b>100.00%</b>
		<p><i>*The power purchase quantum/cost approved in MYT Order on yearly basis, however monthly approved numbers are derived from comparison purpose.</i></p> <p>M/s Kreate Energy Pvt. Ltd. is not an approved source in MYT tariff order dated 30 March 2020 in Case No. 329 of 2019, however, subsequently, the Commission in its Order dated 30 June, 2021 in Case No. 69 of 2021 has provided the approval of Power Purchase Agreement and Adoption of Tariff determined through transparent bidding process for a Short-Term procurement of power up to 14 MW (RTC) for one year starting from 1 July, 2021 to 30 June, 2022 through combined power procurement. In the said order, the quantum estimated for KRCIPPL is up to 3 MW (Up to 2 MW RTC and up to 1MW between 0800 and 2300 hours).</p> <p>In addition to the above, KRCIPPL has also purchased Non-Solar REC's in February 2022 equivalent to 0.29 MUs at a rate of Rs. 1.02/kWh. This is in line with the approval of the Commission in the MYT Order for procurement of RECs for meeting the RPO.</p> <p># While the Commission had allowed the KRC DISCOMs to procure RECs to meet the RPO obligations in the MYT order, in the Order in Case no. 231 of 2020 dated 23 January, 2021, the Commission has also permitted the KRC DISCOMs to procure RE power before FY 2022-23, so that the benefit of RE purchase can be passed on to the consumers.</p>			
8	Power Purchase	Monthly power purchase invoices are submitted by KRCIPPL.			





Sr. No.	Particular	Compliance
	under Section 63 of Electricity Act, 2003	Power Purchase rates are verified from the PPA signed by KRCIPPL with each source of power. Monthly power purchase quantum and rate are verified from the invoices, and it is ensured that same has been considered in the FAC calculation.

**5. Power Purchase Cost:**

5.1 The Commission has scrutinised the detailed bills/invoices submitted for power purchase during the month of January 2022, February 2022, and March 2022 , in order to verify the claim of KRCIPPL regarding Average Power Purchase Cost (APPC). The Commission has verified the actual as well as approved Net Purchase (MUs), Variable Cost (Rs./kWh) and Power Purchase Cost considered in FAC computation from the invoices and applicable MYT Order respectively.

5.2 The Power Purchase cost incurred in January 2022, February 2022 and March 2022 is **Rs. 0.37 Crore, Rs. 0.39 Crore and Rs. 0.87 Crore** respectively, which is significantly lower than the approved monthly Power Purchase cost of Rs. 1.36 Crore by the Commission each for the months of January 2022, February 2022, and March 2022 , respectively.

5.3 **Kreate Energy (I) Pvt. Ltd.:** The Commission notes that KRCIPPL has purchased **1.25 MU, 1.05 MU and 1.15 MU** for the months of January 2022, February 2022, and March 2022 respectively. The Commission in tariff order dated 30 March 2020 in Case No. 329 of 2019, has approved power purchase upto March 2021. Post that the Commission in its Order dated 30 June, 2021 in Case No 69 of 2021 has approved Power Purchase Agreement and Adoption of Tariff determined through transparent bidding process for a Short-Term procurement of power up to 14MW (RTC) for KRC discoms for one year starting from 1 July, 2021 to 30 June, 2022 through combined power procurement. In the said order, the quantum estimated for KRCIPPL is upto 3 MW (Up to 2 MW RTC and up to 1 MW between 0800 and 2300 hours). The relevant extract of the Commission Order in Case No 69 of 2021 is reproduced below:

*“Accordingly, the Commission approves PPA dated 27 May 2021 entered between KRC DISCOMs (MindSpace Business Parks Private Limited; Gigaplex Estate Private Limited; KRC Infrastructure and Projects Private Limited) and Kreate Energy (I) Pvt. Ltd. – Power Department of Sikkim.”*

5.4 KRCIPPL has to pay short-term open access charges to SLDC and hence effective rate for power purchase from Kreate is higher than approved rate.

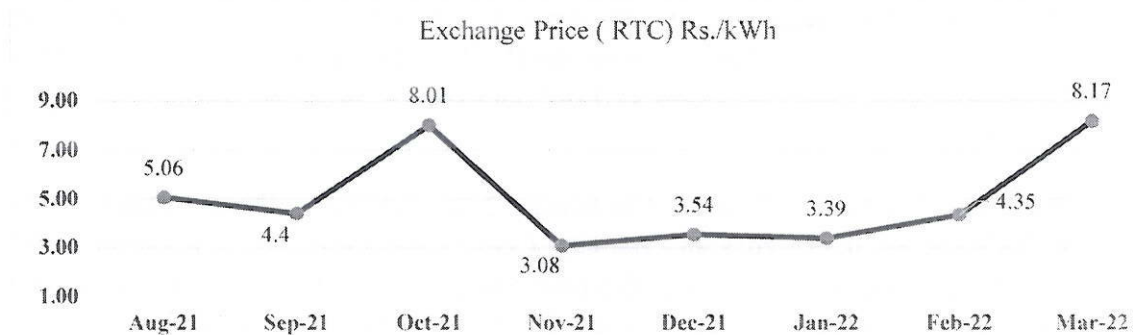
5.5 The Commission has verified the bills from the power purchase bills for M/s Kreate Energy.



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

**5.6 Power procurement through Exchange and Other Peak Resource:** KRCIPPL has procured 0.12 MU from IEX for the month of March 2022, to meet the peak demand from DAM / RTM products available on IEX platform. Though this source contributed to 6.99% of the total power purchase during the month of March 2022, average rate of power purchase was high at Rs. 12.56/kWh in March 2022. The higher cost of purchase from exchange reflects the trends observed in the power exchange in the month of March 2022.

**Figure 1: Exchange price trends (RTC)**



**5.7 Renewable Sources:** The Commission has approved monthly amount of Rs. 0.06 crore for purchase of Solar and Non-Solar RE power to meet Renewable Purchase Obligation (RPO). KRCIPPL has purchased Non-Solar REC only in the month of February 2022 for Rs. 0.03 Crore. The Commission has verified the details and approves the same. Further, KRCIPPL has also purchased RE Solar and RE Non-Solar during the months of February 2022 and March 2022. The RE Solar purchase quantum was 0.01 MU, at a power purchase rate of Rs. 6.93/kWh, in February 2022 and 0.11 MU, at a power purchase rate of Rs. 8.82/kWh in March 2022. Similarly, the RE Non-Solar purchase quantum was 0.02 MU, at a power purchase rate of Rs. 6.93/kWh in February 2022 and 0.26 MU, at a power purchase rate of Rs. 8.83/kWh in March 2022. KRCIPPL has not purchased RE Solar or Non-Solar power in the month of January 2022. The Commission in its MYT Order in Case no. 329 of 2019 had approved purchases of REC in place of actual RE power for FY 2020-21 and FY 2021-22. However, the Commission in its Order in Case No. 231 of 2020 dated 23 January, 2021 had stated the following:

*“9.14. As approved in MYT Orders, KRC Discoms have proposed to procure Solar and Non-Solar RECs for FY 2020-21 and FY 2021-22. It is also mentioned that if KRC DISCOMs can procure RE power before that, then the same shall be resorted to, so that the benefit of RE purchase can be passed on to the consumers. As this proposal is in line with that approved in MYT orders, the Commission allows the same.”*

**5.8** Accordingly, KRCIPPL has sourced the RE Solar and RE Non-Solar Power from the exchange (GDAM) to meet the RPO obligation.

**5.9** The Commission notes that the price of power is competitively discovered for the power sourced from the power exchange and KRCIPPL has provided all the necessary supporting



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

documents for verification of the cost. Accordingly, the Commission approves inclusion of the power purchased from RE sources for recovery through the FAC mechanism.

- 5.10 **DSM Pool** : KRCIPPL has injected 0.11 MU and 0.01 MU in the DSM pool in the months of January 2022 and February 2022, respectively. Further, KRCIPPL has drawn 0.03 MU in the month of March 2022 from DSM pool.
- 5.11 The Commission has also considered the average price of the power in the DSM pool (Rs. 3.01/kWh, Rs. 0.43/kWh and Rs. 5.50/kWh) as submitted by the Licensee for FAC computation along with the supporting documentation.
- 5.12 The Commission has noted that KRCIPPL has followed Merit Order Dispatch for scheduling of power and all sources are scheduled according to SLDC instructions.
- 5.13 No sale of surplus power was done during the period January 2022 to March 2022.
- 5.14 **Approved Cost**: The Commission has noted that KRCIPPL has procured lower quantum of power from its approved sources due to lower demand on account of continuation of impact of COVID-19 which has resulted in lower power purchase cost and decreased Average power purchase cost for the month of January 2022 and February 2022. **This decrease has also been on account of procurement of power from Kreate Energy (I) Pvt. Ltd for the month of January 2022 and February 2022 at Rs. 3.24/kWh which is lower than the Power procurement cost of Rs. 3.92/kWh as approved by the Commission in Tariff Order in Case No. 329 of 2019 from the medium term source.** Therefore, actual APPC works out to be lower at Rs. 3.26/kWh and Rs. 3.66/kWh than the approved APPC in MYT order for the medium-term sources for the months of January 2022 and February 2022 respectively.
- 5.15 However, the APPC in March 2022 is higher at Rs. 5.19/kWh due to purchase of higher cost power, both conventional and RE, from power exchange to meet the higher demand in March 2022.
- 5.16 The details of the overall cost approved and actual for the months of January 2022, February 2022 and March 2022 respectively, as per MYT Order is as shown in the Table 2 below:

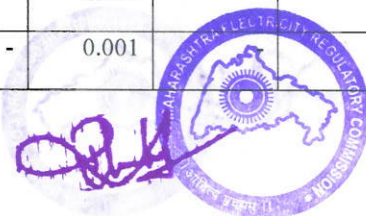
**Table 2: Approved and Actual Power Purchase Cost for KRCIPPL**

Source		Power Purchase Quantum (MU)	Fixed Cost (Rs. Crore)	Fixed Cost (Rs./kWh)	Variable Cost (Rs. Crore)	Variable Cost (Rs./kWh)	Total Cost (Rs. Crore)	APPC (Rs./kWh)
Base Load – Long Term / Medium Term	<b>Approved</b>	<b>3.32</b>	-	-	<b>1.30</b>	<b>3.92</b>	<b>1.30</b>	<b>3.92</b>
	Actual (January 2022)	-	-	-	-	-	-	-
	Actual (February 2022)	-	-	-	-	-	-	-
	Actual (March 2022)	-	-	-	-	-	-	-
Kreate	<b>Approved</b>	-	-	-	-	-	-	-



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

Source		Power Purchase Quantum (MU)	Fixed Cost (Rs. Crore)	Fixed Cost (Rs./kWh)	Variable Cost (Rs. Crore)	Variable Cost (Rs./kWh)	Total Cost (Rs. Crore)	APPC (Rs./kWh)
Energy (I) Pvt. Ltd.	Actual (January 2022)	1.25	-	-	0.40	3.24	0.40	3.24
	Actual (February 2022)	1.05	-	-	0.34	3.24	0.34	3.24
	Actual (March 2022)	1.15	-	-	0.37	3.24	0.37	3.24
Exchange/Other Peak Sources	<b>Approved</b>	-	-	-	-	-	-	-
	Actual (January 2022)	-	-	-	-	-	-	-
	Actual (February 2022)	-	-	-	-	-	-	-
	Actual (March 2022)	0.12	-	-	0.15	12.56	0.15	12.56
Solar & Non-Solar RE/REC	<b>Approved (REC)</b>	-	-	-	<b>0.02 (Solar REC)</b>	<b>1.00 (Solar REC)</b>	<b>0.02 (Solar REC)</b>	<b>1.00 (Solar REC)</b>
		-	-	-	<b>0.04 (Non-Solar REC)</b>	<b>1.00 (Non-Solar REC)</b>	<b>0.04 (Non-Solar REC)</b>	<b>1.00 (Non-Solar REC)</b>
	Actual (January 2022)	-	-	-	-	-	-	-
	Actual (February 2022)	0.29 (REC Non-Solar)	-	-	0.03 (REC Non-Solar)	1.02 (REC Non-Solar)	0.03 (REC Non-Solar)	1.02 (REC Non-Solar)
		0.01 (RE Solar)	-	-	0.01 (RE Solar)	6.93 (RE Solar)	0.01 (RE Solar)	6.93 (RE Solar)
		0.02 (RE Non-Solar)	-	-	0.01 (RE Non-Solar)	6.93 (RE Non-Solar)	0.01 (RE Non-Solar)	6.93 (RE Non-Solar)
	Actual (March 2022)	0.11 (RE Solar)	-	-	0.10 (RE Solar)	8.82 (RE Solar)	0.10 (RE Solar)	8.82 (RE Solar)
	0.26 (RE Non-Solar)	-	-	0.23 (RE Non-Solar)	8.83 (RE Non-Solar)	0.23 (RE Non-Solar)	8.83 (RE Non-Solar)	
DSM	<b>Approved</b>	-	-	-	-	-	-	-
	Actual (January 2022)	(0.11)	-	-	(0.03)	3.01	(0.03)	3.01
	Actual (February 2022)	(0.01)	-	-	0.0003	(0.43)	0.0003	(0.43)
	Actual (March 2022)	0.03	-	-	0.02	5.50	0.02	5.50
SLDC Fees	Actual (January 2022)	-	0.001	-	-	-	0.001	-
	Actual (February 2022)	-	0.001	-	-	-	0.001	-



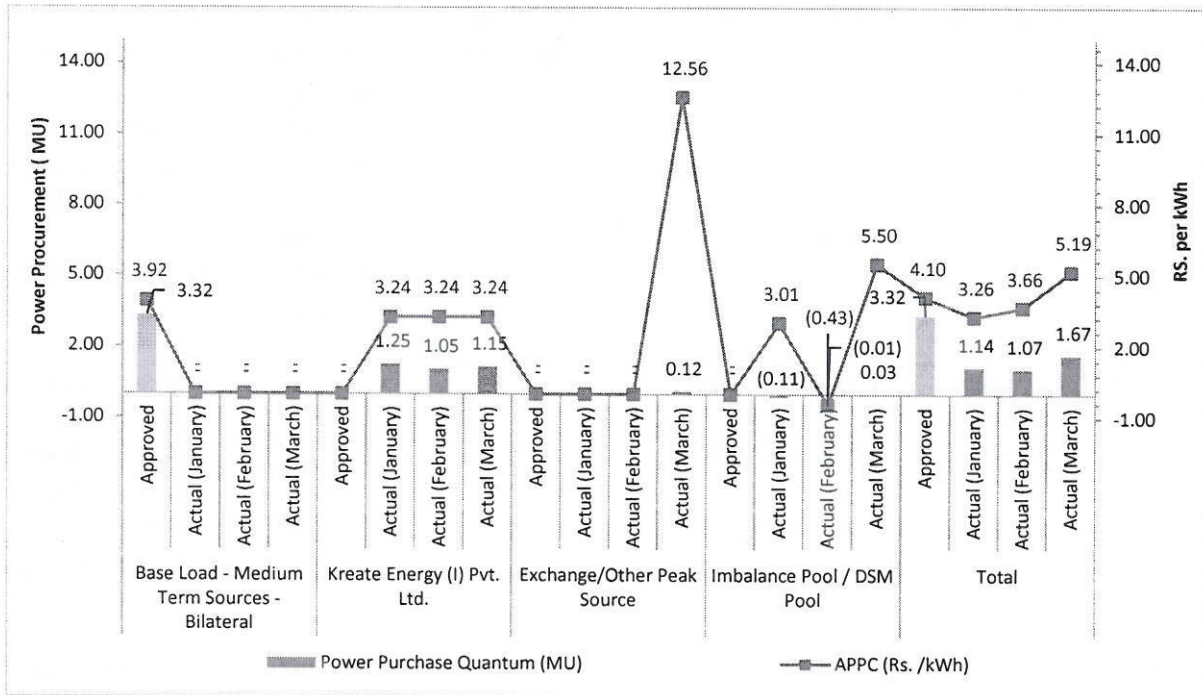
Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

Source		Power Purchase Quantum (MU)	Fixed Cost (Rs. Crore)	Fixed Cost (Rs./kWh)	Variable Cost (Rs. Crore)	Variable Cost (Rs./kWh)	Total Cost (Rs. Crore)	APPC (Rs./kWh)
	Actual (March 2022)	-	0.001	-	-	-	0.001	
<b>Total</b>	<b>Approved</b>	<b>3.32</b>	<b>-</b>	<b>-</b>	<b>1.36</b>	<b>4.10</b>	<b>1.36</b>	<b>4.10</b>
	Actual (January 2022)	1.14	0.001	0.007	0.37	3.26	0.37	3.26
	Actual (February 2022)	1.07	0.001	0.007	0.39	3.66	0.39	3.66
	Actual (March 2022)	1.67	0.001	0.004	0.86	5.19	0.87	5.19

\*KRC has to pay fixed short term open access charges irrespective of quantum of power purchase and hence per unit rate is higher

5.17 Source wise approved and actual quantum of power procured from some of the key sources and APPC for month of January 2022, February 2022, and March 2022, respectively, is shown in the graph below:

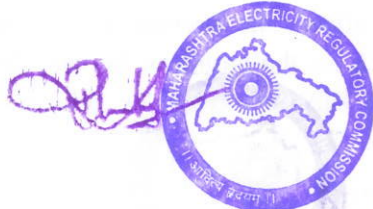
**Figure 2: Variation in Power Procurement and Total per unit Cost**



5.18 Reasons for the rate variation for various sources are as shown below:

**Table 3: Summary of reasons for rate variation for various power sources**

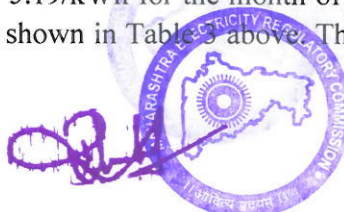
Sr. No.	Source	Month	Approved Rate (Rs. /kWh)	Actual Rate (Rs. /kWh)	Reason for rate variation
1	Base Load – Long term / Medium Term	January 2022	3.92	-	Approved in the MYT Order.
		February 2022		-	



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

Sr. No.	Source	Month	Approved Rate (Rs. /kWh)	Actual Rate (Rs. /kWh)	Reason for rate variation
		March 2022		-	
2	Kreate Energy (I) pvt. ltd	January 2022	-	3.24	The power purchase from Kreate at rate of Rs. 3.24/kWh (Rs. 3.18/kWh approved rate + short term open access charges paid to SLDC) is lower than the approved Power procurement cost of Rs. 3.92/kWh for base load.
		February 2022		3.24	
		March 2022		3.24	
3	Solar & Non Solar – REC / RE	January 2022	1.00 (REC – Solar & Non-Solar)	-	Market discovered rate; Purchase of RE power in Mar 2022 from Power Exchange (GDAM) instead of REC procurement approved in the MYT Order.
		February 2022		6.93 (Solar & Non-Solar) 1.02 (Non-Solar REC)	
		March 2022		8.82 (Solar) 8.83 (Non-Solar)	Non-solar REC was procured in February 2022.
4	Exchange/ Other Peak Source	January 2022	-	-	Market discovered rate; Short term power purchase from Power Exchange through DAM and RTM. The rates are higher than the approved rates as the average power purchase rates in the power exchange were higher during March 2022.
		February 2022		-	
		March 2022		12.56	
5	DSM	January 2022	-	3.01	DSM rates as based on the supporting documents provided by KRCIPPL.
		February 2022		(0.43)	
		March 2022		5.50	
6	<b>Total</b>	<b>January 2022</b>	<b>4.10</b>	<b>3.26</b>	<b>Due to above factors</b>
		<b>February 2022</b>		<b>3.66</b>	
		<b>March 2022</b>		<b>5.19</b>	

5.19 Considering the above, the Commission allows the average power purchase cost of Rs. 3.26/kWh, Rs. 3.66/kWh and Rs. 5.19/kWh for the month of January 2022, February 2022, and March 2022 respectively, as shown in Table 3 above. The reduction in power purchase



## Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

cost from approved sources is lower due to tie-up of cheaper power with Kreate Energy (I) Pvt. Ltd. The variation in power purchase cost is on the higher side in March 2022 mainly on account of higher cost RE and conventional power purchase from exchange.

### 6. **FAC on account of fuel and power purchase cost (F)**

- 6.1 The Commission has worked out the average power purchase costs for the month of January 2022, February 2022, and March 2022 as shown in Table 2 above. The same has been compared with the average power purchase cost approved by the Commission in MYT Order dated 30 March, 2020 to arrive at the differential per unit rate at which Z<sub>FAC</sub> is to be passed on to the consumers.
- 6.2 Thus, the following Table 4 shows the Z<sub>FAC</sub> worked out by the Commission on account of difference in power purchase cost for the month of January 2022, February 2022, and March 2022 respectively.

**Table 4: FAC on account of Fuel and Power Purchase Cost**

Sr. No.	Particulars	Units	Jan- 2022	Feb - 2022	Mar - 2022
1	Average power purchase cost approved by the Commission	Rs./kWh	4.10	4.10	4.10
2	Actual average power purchase cost	Rs./kWh	3.26	3.66	5.19
3	Change in average power purchase cost (=2 -1)	Rs./kWh	(0.83)	(0.43)	1.09
4	Net Power Purchase	MU	1.14	1.07	1.67
5	Change in power purchase cost (=3 x 4/10)	Rs. Crore	(0.09)	(0.05)	0.18

### 7. **Adjustment for over recovery/under recovery (B)**

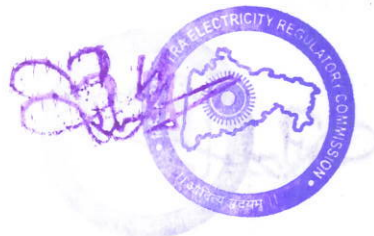
- 7.1 There is no past adjustment for over recovery/under recovery for the month of January 2022, February 2022, and March 2022, respectively since there was a negative FAC in the month of October 2021, November 2021, and December 2021.

### 8. **Carrying Cost for over recovery/under recovery (C)**

- 8.1 There is no past adjustment for over recovery/under recovery and hence no carrying cost for over recovery/under recovery for the month of January 2022, February 2022, and March 2022, respectively.

### 9. **Holding Cost for FAC Fund**

- 9.1 The Commission in its FAC approval for the month of March 2021 has decided to accumulate the FAC fund arising out of negative monthly FAC up to March 2023 along with the holding cost. Accordingly, as per said principle laid down by the Commission,



## Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

KRCIPPL has carried forward the negative FAC amount and accumulated the same in the FAC Fund along with holding cost.

- 9.2 On the similar principle, the commission has allowed KRCIPPL to carry forward the negative FAC amount in excess of FAC fund approved in the MYT order and accumulate in the FAC fund up to March 2023 along with holding cost.
- 9.3 The Commission has determined negative FAC of Rs. 0.09 Crore and Rs. 0.05 Crore for the months of January 2022 and February 2022 respectively and a positive FAC of Rs. 0.18 Crore for March 2022. The positive FAC is March 2022 is adjusted from the available FAC fund to avoid levy the same on the consumers. Accordingly, the Commission has determined FAC fund of Rs. (1.66) Crore, Rs. (1.72) Crore and Rs. (1.55) Crore at the end of January 2022, February 2022, and March 2022 respectively (after adjustment of positive/negative FAC for the respective months).
- 9.4 The Commission has considered SBI MCLR rate of the month plus 150 basis points which works out to 8.50% for January 2022, February 2022, and March 2022, respectively. Accordingly, the Commission has calculated holding cost of Rs. (0.01) Crore, Rs. (0.01) Crore and Rs. (0.01) Crore for January 2022, February 2022, and March 2022 , respectively to be contributed to the FAC Pool.

### **10. Disallowance due to excess Distribution Loss**

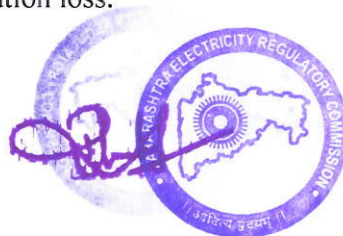
- 10.1 Regulation 10.8 of MYT Regulations, 2019 provides for FAC amount to be reduced in case the actual distribution loss for the month exceeds the approved distribution loss. The relevant extract is reproduced as follows.

*“10.8 The total  $Z_{FAC}$  recoverable as per the formula specified above shall be recovered from the actual sales in terms of “Rupees per kilowatt-hour”:*

*Provided that, in case of unmetered consumers, the  $Z_{FAC}$  shall be recoverable based on estimated sales to such consumers, computed in accordance with such methodology as may be stipulated by the Commission:*

*Provided further that, where the actual annual sliding distribution losses of the Distribution Licensee exceed the level approved by the Commission, the amount of  $Z_{FAC}$  corresponding to the excess distribution losses (in kWh terms) shall be deducted from the total  $Z_{FAC}$  recoverable”*

- 10.2 The following Table 5 provides the comparison of approved and actual distribution loss and disallowance due to excess distribution loss:





**Table 5: Disallowance of FAC due to excess Distribution Loss**

Sr. No.	Particulars	Units	Approved in Tariff Order	Jan - 22	Feb - 22	Mar - 22
1	Net Energy input at Distribution Voltages	MU	3.22	1.11	1.05	1.62
2	Energy sales at Distribution voltages	MU	3.13	1.09	1.02	1.59
3	Distribution Loss (1 - 2)	MU	0.09	0.02	0.02	0.03
4	Distribution Loss as % (3/1)	%	2.75%	2.11%	1.96%	1.98%
5	Annual Sliding Distribution Loss (%)	%		2.17%	2.14%	2.13%
6	<b>Excess Distribution Loss = [Annual Sliding Distribution Loss - Distribution loss approved] x Net Energy Input (1)</b>	MU	-	-	-	-
7	<b>Disallowance of FAC due to excess Distribution Loss</b>	<b>Rs. Crore</b>	-	-	-	-

10.3 As can be seen from the Table 5 above, the annual sliding distribution loss for the months of January 2022, February 2022 and March 2022 is 2.17%, 2.14% and 2.13% respectively, which lower than the MYT approved distribution loss of 2.75%. The monthly distribution loss for the months of January to March, 2022 is also lower than the MYT approved distribution loss of 2.75%. The Commission has not worked out any disallowance on account of excess Distribution Loss since the actual sliding distribution loss is lower than approved distribution loss.

#### 11. Summary of Allowable Z<sub>FAC</sub>

11.1 The summary of the FAC amount as approved by the Commission for the month of January 2022, February 2022, and March 2022 which is allowed to be recovered in the billing month March 2022, April 2022, and May 2022 as shown in the Table 6 below.

**Table 6: Summary of Allowable Z<sub>FAC</sub>**

Sr. No.	Particulars	Units	Jan 2022	Feb 2022	Mar 2022
<b>1</b>	<b>Calculation of Z<sub>FAC</sub></b>				
1.1	Change in cost of generation and power purchase attributable to Sales within the License Area (F)	Rs. Crore	(0.09)	(0.05)	0.18
1.2	Carrying cost for over-recovery/under-recovery ©	Rs. Crore	-	-	-
1.3	Adjustment factor for over-recovery/under-recovery (B)	Rs. Crore	-	-	-
<b>1.5</b>	<b>Z<sub>FAC</sub> = F+C+B</b>	<b>Rs. Crore</b>	<b>(0.09)</b>	<b>(0.05)</b>	<b>0.18</b>
<b>2</b>	<b>Calculation of FAC Charge</b>				
2.1	Energy Sales within the License Area	MU	1.09	1.02	1.59



Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

Sr. No.	Particulars	Units	Jan 2022	Feb 2022	Mar 2022
2.2	Excess Distribution Loss	MU	-	-	-
<b>2.3</b>	<b>Z<sub>FAC</sub> per kWh</b>	<b>Rs./kWh</b>	<b>(0.87)</b>	<b>(0.45)</b>	<b>1.15</b>
<b>3</b>	<b>Recovery of FAC</b>				
3.1	FAC disallowed corresponding to excess Distribution Loss $(((2.1+2.2) \times 2.3)/10)$	Rs. Crore	-	-	-
<b>3.2</b>	<b>Allowable FAC</b>	<b>Rs. Crore</b>	<b>(0.09)</b>	<b>(0.05)</b>	<b>0.18</b>
<b>4</b>	<b>Utilization of FAC Fund</b>				
4.1	Opening Balance of FAC Fund	Rs. Crore	(1.55)	(1.66)	(1.72)
4.2	Holding Cost on FAC Fund	Rs. Crore	(0.010)	(0.011)	(0.011)
4.3	Z <sub>FAC</sub> for the month (Sr. No. 3.2)	Rs. Crore	(0.09)	(0.05)	0.18
4.4	Closing Balance of FAC Fund	Rs. Crore	(1.66)	(1.72)	(1.55)
4.5	Z <sub>FAC</sub> leivable/refundable to consumer	Rs. Crore	-	-	-
<b>5</b>	<b>Total FAC based on category wise and slab wise allowed to be recovered</b>	<b>Rs. Crore</b>	<b>-</b>	<b>-</b>	<b>-</b>
6	Carried forward FAC for recovery during future period (3.1-3.2-4)	Rs. Crore	-	-	-

11.2 It can be seen from the Table 6 above that standalone FAC for the month of January 2022, February 2022, and March 2022 is Rs. (0.09) Crore, Rs. (0.05) Crore, Rs. 0.18 Crore respectively. Based on energy sales and excess distribution loss, FAC per unit has been worked out as Rs. (0.87)/kWh, Rs. (0.45)/kWh and Rs. 1.15/kWh for the months of January 2022, February 2022 and March 2022 respectively as shown above.

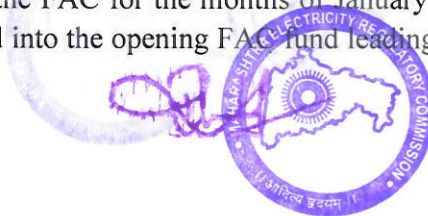
11.3 Further, the Regulation 10.9 of MYT Regulations, 2019 specifies as:

*Provided that the monthly Z<sub>FAC</sub> shall not exceed 20% of the variable component of Tariff or such other ceiling as may be stipulated by the Commission from time to time:*

11.4 The FAC in January 2022 and February 2022 is negative and hence same is added to the FAC fund being maintained by KRCIPPL. As the FAC per unit computed in the month of March 2022 as shown in Table 6 (Rs. 1.15/kWh) above is higher than the 20% cap (Rs. 0.78/kWh) specified in MYT Regulations, 2019, hence, the restriction is triggered with regards to such ceiling.

11.5 Accordingly, considering the ceiling limit (Rs. 0.78/kWh), the FAC recoverable will be lower.

11.6 The Commission has also approved a holding cost of Rs. (0.010) Crore, Rs. (0.011) Crore & Rs. (0.011) Crore for January 2022, February 2022, and March 2022, respectively for the FAC fund available during the month of January 2022, February 2022, and March 2022. The value of the opening FAC fund in January 2022 after considering the holding cost is Rs. (1.55) Crore. Considering that the FAC for the months of January 2022 and February 2022 is negative, the same gets added into the opening FAC fund leading to an opening FAC fund



of Rs. (1.72) Crore in March 2022. The Commission has determined a positive FAC of Rs. 0.18 Crore for March 2022. Accordingly, this positive FAC determined by the Commission for March 2022 is adjusted in the available FAC fund and the FAC fund amount at the end of March 2022 is **Rs. (1.55) Crore**. The said amount will be accumulated in FAC Fund for stabilisation of FAC in future and the benefit will not be passed to consumers. Accordingly, there is no FAC leviable on the consumers for the months of January 2022, February 2022, and March 2022.

## 12. Recovery from Consumers:

12.1 Regulation 10.9 of MERC MYT Regulations, 2019 provides for methodology of recovery of FAC charge from each category of consumers. The relevant extract is reproduced as below.

*“10.9 The  $Z_{FAC}$  per kWh for a particular Tariff category/sub-category/consumption slab shall be computed as per the following formula: —*

$$Z_{FAC_{cat}} \text{ (Rs/kWh)} = [Z_{FAC} / (\text{Metered sales} + \text{Unmetered consumption estimates} + \text{Excess distribution losses})] * k * 10,$$

*Where:*

*$Z_{FAC_{cat}}$  =  $Z_{FAC}$  component for a particular Tariff category/sub-category/consumption slab in ‘Rupees per kWh’ terms;*

*k = Average Billing Rate / ACOS;*

*Average Billing Rate = Average Billing Rate for a particular Tariff category/sub-category/consumption slab under consideration in ‘Rupees per kWh’ as approved by the Commission in the Tariff Order:*

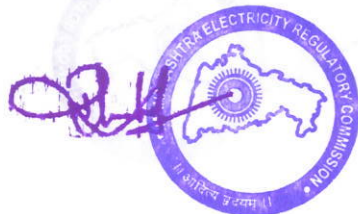
*Provided that the Average Billing Rate for the unmetered consumers shall be based on the estimated sales to such consumers, computed in accordance with such methodology as may be stipulated by the Commission:*

*ACOS = Average Cost of Supply in ‘Rupees per kWh’ as approved for recovery by the Commission in the Tariff Order:*

*Provided that the monthly  $Z_{FAC}$  shall not exceed 20% of the variable component of Tariff or such other ceiling as may be stipulated by the Commission from time to time:*

*Provided further that any under-recovery in the  $Z_{FAC}$  on account of such ceiling shall be carried forward and shall be recovered by the Distribution Licensee over such future period as may be directed by the Commission....”*

12.2 The Commission had invoked power of removing difficulties under MYT Regulation, 2019 and made following changes for computation of FAC.



## Approval of FAC Charges for the months of **January 2022, February 2022, and March 2022**

*“Distribution Licensee shall undertake computation of monthly FAC as per Regulation 10 of the MYT Regulations, 2019 except for treatment to be given to negative FAC as follows:*

- *Negative FAC amount shall be carried forward to the next FAC billing cycle with holding cost.*
- *Such carried forward negative FAC shall be adjusted against FAC amount for the next month and balance negative amount shall be carried forward to subsequent month with holding cost.*
- *Such carry forward of negative FAC shall be continued till the accumulated negative FAC becomes 20 % of monthly tariff revenue approved by the Commission in Tariff Order. In case of KRCIPPL such limit shall be Rs.28 Lakh. Any accumulated amount above such limit shall be refunded to consumers through FAC mechanism.*
- *In case such FAC Fund is yet to be generated or such generated fund is not sufficient to adjust against FAC computed for given month, then Distribution Licensee can levy such amount to the consumers through FAC mechanism, upon seeking prior approval from the Commission.”*

- 12.3 The Commission works out FAC per unit for each category of consumer based on the formula provided in the above Regulations. However, considering that the stand-alone FAC for the months of January 2022 and February 2022 is negative and the FAC recoverable for March 2022 is also nil after adjustment with the available FAC fund, there is no requirement for working out the FAC per unit for each category of consumer.
- 12.4 The Commission in the Tariff Order had directed that negative FAC amount shall be carried forward to the next FAC billing cycle with holding cost till the accumulated negative FAC reaches the limit of Rs. 28 Lakh. KRCIPPL has exceeded FAC Fund from the month of August 2020 and accordingly the additional amount was required to be refunded to consumer as per the MYT Order. However, the Commission has allowed accumulation of FAC Fund up to March 2021 beyond the limit specified in the MYT orders considering the extraordinary situation due to Covid-19 pandemic.
- 12.5 The Commission in its FAC approval for the month of March 2021 has decided to accumulate the FAC fund arising out of negative monthly FAC up to March 2023 along with the holding cost. The Commission will continuously monitor the situation as it unfolds along with its impact on power prices and pass appropriate directions in future regarding utilisation of FAC fund.
- 12.6 Accordingly, the Commission allows the FAC amount of Rs. (1.55) Crore to be accumulated as FAC Fund and shall be carried forward to the next billing cycle with holding cost.
- 12.7 Accordingly, per unit  $Z_{FAC}$  for the month of **January 2022, February 2022, and March 2022** to be levied on consumers of KRCIPPL in the billing months of **March 2022, April 2022, and May 2022** respectively is Nil.

