



महाराष्ट्र विद्युत नियामक आयोग

Maharashtra Electricity Regulatory Commission



Ref. No. MERC/FAC/2025-26/ 0842

Date: 12 November, 2025

To,
The Managing Director
Tata Power Company Ltd.
Dharavi Receiving Station
New Shalimar Industrial Estate
Matunga, Mumbai – 400 019

Subject: Prior Approval of Fuel Adjustment Charges (FAC) submission of TPC-D for the month of December, 2024.

Reference: 1. TPC-D's FAC submission dated 20 January, 2025 for prior approval of FAC for the month of December, 2024.
2. Data gaps communicated to TPC-D vide email dated 27 January, 2025.
3. TPC-D's response to data gaps on 12 February, 2025.

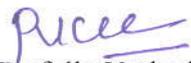
Sir,

Upon vetting the FAC calculations for the month of December, 2024 as mentioned in the above reference, the Commission has accorded approval for FAC amount of Rs. (28.46) Crore. As FY 2024-25 is already over and Provisional Truing-up of FY 2024-25 has also been done by the Commission in the recent MYT Order dated 28 March, 2025, the revised power purchase cost resulting in FAC is already adjusted in the said MYT Order. Accordingly, the FAC chargeable to consumers is as shown in the table below:

Month	FAC Amount (Rs. Crore)
December, 2024	0



Yours faithfully,


(Dr. Prafulla Varhade)
Executive Director, MERC

Enclosed: Annexure A: Detailed Vetting Report for the month of December, 2024.

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**PRIOR APPROVAL FOR FAC CHARGES FOR THE MONTH OF
DECEMBER, 2024**

Subject: Prior Approval of Fuel Adjustment Charges (FAC) submission of TPC-D for the month of December, 2024.

Reference: TPC-D's FAC submission dated 20 January, 2025 and 12 February, 2025 for prior approval of FAC for the month of December, 2024.

1. FAC submission by TPC-D:

TPC-D has submitted FAC submissions for the month of December, 2024 as referred above. Upon vetting the FAC calculations, taking cognizance of all the submissions furnished by TPC-D against the data gaps issued, the Commission has accorded approval for FAC Amount of Rs. (28.46) Crore for the month of December 2024. The approved FAC amount is adjusted at the time of Provisional Truing-up of FY 2024-25 in the MYT Order dated 28 March, 2025.

2. Background

2.1 On 06 March, 2024, the Commission has issued Tariff Order for TPC-D in Case No. 237 of 2023 for Truing-up of FY 2022-24, provisional Truing-up for FY 2023-24, and Aggregate Revenue Requirement and Tariff for FY 2024-25. Revised Tariff has been made applicable from 1 April, 2024.

2.2 In the Tariff Order, the Commission has stipulated methodology of levying FAC as follows:

“6.12.4 Stabilisation (buffer) for fuel cost adjustment

.....

Therefore, using its powers for Removing Difficulty under Regulation 106 of the MYT Regulations, 2019, the Commission is making following changes in the FAC mechanism specified under Regulation 10 of the MYT Regulations, 2019:

6.12.5 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 TPC-D, such limit shall be Rs. 50 crore. 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.

6.12.6 In order to maintain transparency in management and use of such FAC Fund, the Distribution Licensee shall maintain monthly account of such FAC fund and upload it on its website for information of stakeholders.

6.12.7 As the Commission has continued concept of FAC fund as stated above to stabilize the increase in fuel prices and power purchase costs, the Commission has modified the FAC mechanism such that the Distribution Licensees shall submit the FAC computations on a monthly basis for prior approval, irrespective of whether FAC is chargeable in a month or whether some amount is accruing to the Fund on account of negative FAC.

6.12.8 The details of the FAC as per the Regulations, shall be submitted by the 15th of the every month prior to the month in which the FAC is proposed to be levied and the Commission will endeavour to decide on the same within 10 days so that the same can be levied from the 1st of the subsequent month.”

2.3 Vide its letter dated 20 April, 2020, the Commission communicated the excel formats along with the checklist to file FAC submissions for prior approval to all Distribution Licensees. The Commission also directed all Distribution Licensees to file FAC submissions by 15th of every month prior to the month for which the FAC is proposed to be levied for prior approval.

2.4 Accordingly, TPC-D has filed FAC submissions for the month of December, 2024 for prior approval. The Commission has scrutinized the submissions provided by TPC-D and has also verified the fuel and power purchase bills provided along with its submissions.

3. Energy Sales of the Licensee

3.1 The net energy sales within licence area as submitted by TPC-D in the FAC submission and as approved by the Commission are as shown in the table below:



Consumer Category	Approved by the Commission* (MU)	Monthly Approved* (MU)	Actual Sales* December 2024 (MU)
	(I)	(II=I/12)	(III)
	EHV – Industry	761.44	63.45
HT I - Industry	1113.23	92.77	76.13
EHV- Commercial	105.50	8.79	8.13
HT II - Commercial	408.07	34.01	26.78
HT III - Group Housing Society (Residential)	49.59	4.13	2.95
HT IV – Railways/Metro/Monorail			
22/33 kV	146.70	12.22	13.30
HT V - Public Services			
a) Govt. Edu. Inst. & Hospitals	19.56	1.63	1.66
b) Others	124.80	10.40	11.34
HT VIII – EV Charging Stations	17.31	1.44	1.28
LT I (A)- Residential (BPL)			
LT I (B)- Residential	2218.43	184.87	144.43
LT II - LT Commercial			
(A)- upto 20 kW	201.08	16.76	14.29
(B) >20 kW and <50 kW	106.91	8.91	8.18
(C) - 50 kW	410.40	34.20	29.51
LT III (A) - Industry < 20 kW	37.50	3.12	2.70
LT III (B) - Industry > 20 kW	242.86	20.24	18.38
LT IV - Public Services			
a) Govt. Edu. Inst. & Hospitals	4.76	0.40	0.53
b) Others	36.25	3.02	2.44
LT V - EV Charging Stations	12.19	1.02	0.67
Total	6016.59	501.38	436.61

* - Approved and Actual Sales includes the direct sales and changeover sales of TPC-D

*- In Case of TPC-D, the sales is approved on annual basis. Monthly approved sales derived based on approved annual sales for comparison purpose.

3.2 It is observed that the total sales for December, 2024 is 436.61 MU which is 12.92% lower than approved monthly sales of 501.38 MU. With respect to overall consumption of TPC-D, HT category consumption of 215.48 MU is lower by 5.84% as compared to approved monthly HT energy sales of 228.85 MU, and the LT sales of 221.13 MU are lower by 18.86% than approved sales of 272.53 MU. The overall sales are lower due to lower sales across HT-1 (Industry), EHV- Commercial, HT II – Commercial, HT VI - Electric Vehicle Charging Station, HT III - Group Housing Society (Residential), LT II – Commercial (A) and (B), LT III(A) - Industrial up to 20 kW, LT IV - Public Services b) Others, LT III(B) - Industrial > 20 kW and LT VI - EV Charging Stations than approved by the Commission in the Tariff Order.



3.3 The comparison of estimated sales and sales based on actual meter reading for the month of December 2024 is as given below:

Particulars	Actual – MU	Estimated - MU	Total	% sales based on Estimated Reading
December-24	435.99	0.62	436.61	0.14%

It is observed that the assessed sales percentage is marginal at 0.14% in December, 2024.

3.4 Further, comparison of sales for April, 2024 to December, 2024 as compared to last year is as shown below:

Particulars	LT - Residential (MU)	LT Others (MU)	HT (MU)	Total (MU)
April-23	174.77	78.31	229.52	482.59
April-24	195.19	84.82	246.29	526.29
May-23	202.43	85.58	239.67	527.69
May-24	221.80	90.76	241.33	553.88
Jun-23	232.97	86.17	224.32	543.46
Jun-24	236.27	88.55	235.46	560.28
Jul-23	181.25	77.32	236.29	494.86
Jul-24	190.35	83.95	230.95	505.25
Aug-23	168.17	79.42	225.39	472.98
Aug-24	190.97	85.55	208.53	485.06
September-23	174.62	77.36	214.47	466.45
September-24	177.82	81.60	224.18	483.61
October-23	185.44	83.17	188.13	456.74
October-24	184.84	87.66	234.52	507.02
November-23	191.35	78.47	199.55	469.37
November-24	201.01	80.89	194.61	476.50
December-23	155.17	72.78	231.03	458.98
December-24	144.43	76.70	215.48	436.61
April 23 – December 23	1666.18	718.58	1988.38	4373.14
April 24 – December 24	1742.68	760.48	2031.36	4534.52

The Commission observes that overall sales in December, 2024 are lower than December, 2023, due to lower sales for LT Residential and HT Category.

4. Power Purchase Details

4.1 The Commission has approved following sources in the Tariff Order for power purchase by TPC-D.

- a) Tata Power Company Ltd. (TPC-G)
- b) Renewable Energy (Solar and Non-Solar)
- c) Short Term Sources (Bilateral and Power Exchange)



In addition to the aforesaid, there may be some variation in real time which will be settled through Deviation Settlement Mechanism approved by the Commission.

4.2 Summary of Power Purchase for TPC-D is as follows:

Sr. No.	Particular	Compliance																								
1	Sources of approved Power Purchase	TPC-D has purchased power from approved sources.																								
2	Merit Order Dispatch	TPC-D has followed merit order for scheduling of power and preference was given to cheapest power.																								
3	Fuel Utilization Plan	TPC-G has entered into coal contract to procure imported coal from multiple source at price linked with ICI index till December 2024. Further, APM Gas Contract with GAIL has been for the period 7 July, 2021 to 6 July, 2026.																								
4	Deviation Quantum	TPC-D has overdrawn 1.20 MU as compared to the Schedule.																								
5	Sale of Surplus Power	TPC-D has sold 1.33 MU at Rs. 6.80/kWh thereby benefitting its consumers.																								
6	Power Purchase	Actual Power Purchase is 469.39 MU as against approved quantum of 520.97 MU.																								
7	Source wise Power Purchase	<table border="1"> <thead> <tr> <th>Source Name</th> <th>Approved (MU)</th> <th>Actual (MU)</th> <th>Proportion of each Source in Actual Purchase</th> </tr> </thead> <tbody> <tr> <td>TPC-G</td> <td>241.31</td> <td>171.31</td> <td>36.50%</td> </tr> <tr> <td>RE Sources</td> <td>120.95</td> <td>96.28</td> <td>20.51%</td> </tr> <tr> <td>Short Term</td> <td>158.71</td> <td>201.93</td> <td>43.02%</td> </tr> <tr> <td>Deviation & Sale</td> <td>-</td> <td>(0.13)</td> <td>-0.03%</td> </tr> <tr> <td>Total</td> <td>520.97</td> <td>469.39</td> <td>100%</td> </tr> </tbody> </table>	Source Name	Approved (MU)	Actual (MU)	Proportion of each Source in Actual Purchase	TPC-G	241.31	171.31	36.50%	RE Sources	120.95	96.28	20.51%	Short Term	158.71	201.93	43.02%	Deviation & Sale	-	(0.13)	-0.03%	Total	520.97	469.39	100%
Source Name	Approved (MU)	Actual (MU)	Proportion of each Source in Actual Purchase																							
TPC-G	241.31	171.31	36.50%																							
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Deviation & Sale	-	(0.13)	-0.03%																							
Total	520.97	469.39	100%																							
8	Power Purchase: Section 62 of Electricity Act, 2003	As part of verification of fixed cost claimed by TPC-D, the same has been verified from the invoice raised by TPC-G. As part of verification of energy charges claimed by TPC-D, verification of operational parameters, fuel cost, GCV etc. vis-à-vis the MTR Order/Tariff Regulations is carried out.																								
9	RE Purchase	Solar Cost and Solar MU verified as per Invoice. Non-Solar MU considered as submitted by TPC-D based on the meter reading data/scheduled energy (bilateral purchase) with a direction to submit invoice in next FAC submission.																								
10	Short-Term Power Purchase	Short-term power purchase by TPC-D has been verified from the invoices of December, 2024 submitted by TPC-D.																								



4.3 TPC-D has purchased power of 469.39 MU as against approved 520.97 MU from the sources approved by the Commission.

The following table show the variation in average power purchase cost (Rs/kWh) for the month of December, 2024 submitted by TPC-D as compared to average power purchase cost approved in Tariff Order:

Particulars	Tariff Order Dated 06.03.2024			Actual for December, 2024 as submitted by TPC-D		
	FY 2024-25 Approved			Net Purchase	Cost	Average Power Purchase Cost
	Net Purchase – Monthly*	Cost – Monthly	Average Power Purchase Cost			
	MU	Rs. Crore	Rs/kWh	MU	Rs. Crore	Rs/kWh
TPC-G	241.31	149.15	6.18	171.31	98.69	5.76
RE Sources	120.95	38.37	3.17	96.28	32.59	3.38
Short Term + Banking Arrangement	158.71	80.43	5.07	201.93 [#]	68.80	3.41
CTU/Sch./GNA/RTD A charges					8.61	
Deviation Quantum and Cost	-	-	-	1.20	5.18	43.15
Sale of Power	-	-	-	(1.33)	(0.90)	6.80
Total	520.97	267.95	5.14	469.39	212.95	4.54

* Although, power purchase quantum is not approved on monthly basis, the monthly quantum is arrived at based on yearly approved quantum and shown for comparison purpose only

Includes power banked under the banking arrangement with Kreate Energy (I) Private Limited. Accordingly, net energy booked under banking in December 2024 is 29.80 MUs corresponding Open Access charges for banking is Rs. 0.12 Crore.

5. Power Purchase Cost

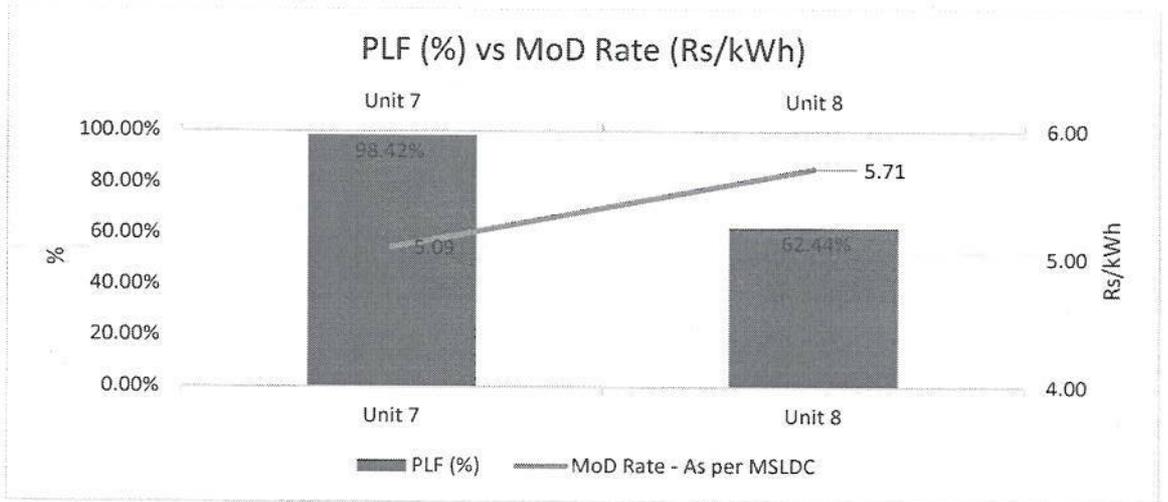
5.1 The Commission has sought detailed bills/invoices for all of the power purchase sources in order to verify the claim of TPC-D with regards to average power purchase cost for the month of December, 2024. The Commission has verified the Net Purchase, Variable Cost, Fixed Charge and the Power Purchase Cost from the relevant bills/invoices received for all purchasing sources. TPC-D has purchased power from approved sources as per the Tariff Order.

TPC-G

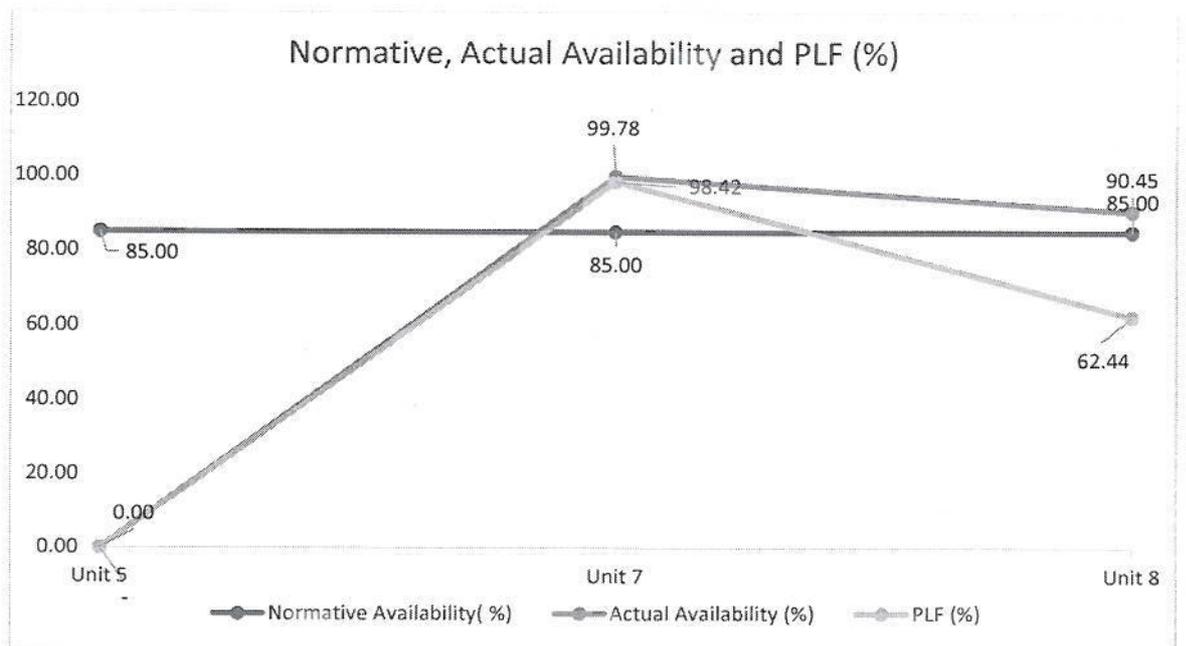
5.2 TPC-G Units 7 and 8 have declared availability of 99.78 and 90.45%, respectively, and Unit 5 have declared availability of 0% which is lower than the normative availability of 85%. The availability and PLF of Unit 5 was lower as compared to Unit 7 and 8 due to forced outage on account of fire in cable vault and control room on 22nd September 2024 and as per the preliminary estimate Unit-5 will be out of service for approximately four



months. Further, the PLF of Unit 8 is lower i.e., 62.44%, respectively. In response to data gaps raised by the Commission for lower PLF of Unit 8, TPC submitted that the PLF of Unit 8 is lower due to lower system demand. The graph showing the comparison of Variable Cost in MoD Stack and monthly PLF for TPC-G thermal/gas units is given below:



5.3 The graphical comparison of normative availability and actual availability for the month of December, 2024 is as given below:



The entire monthly fixed cost was payable in line with MYT Regulations, 2019 as the cumulative plant availability of Unit 7 and 8 are higher than the normative availability of 85%.

5.4 The Availability of TPC-G units as compared to last year is as given below:



TPC-G Units	Availability – December 2024	Availability – December 2023
Unit 5	0.00%	99.94%
Unit 7	99.78%	62.97%
Unit 8	90.45%	96.52%

5.5 The Commission has observed that **TPC-D has purchased 171.31 MU from TPC-G as against monthly approved quantum of 241.31 MU.** TPC-D has purchased 51.81 MU of hydro power which is lower than the approved quantum of 59.74 MU, whereas balance quantum of 119.50 MU is purchased from TPC-G Unit 7 and 8 as against approved quantum of 181.57 MU. Further, the Commission has verified that the payment of Fixed Charges for all the Thermal/Gas Units as well as Hydro Units have been worked out based on the cumulative availability as per the provisions of MYT Regulations, 2019.

5.6 The Commission in its Order dated 31 March, 2023 in Case No 221 of 2022 in respect of Fuel Supply Arrangement (FSAs) of TPC-G as held as follows:

“8.4.2 The Commission notes that the projected Availability of all thermal generating Units and hydro generating stations are greater than the normative Availability as specified in the MYT Regulations, 2019. The Commission sought the details of Fuel Supply Agreements (FSAs) in place for achieving the projected Availability for thermal Units. In reply, TPC-G submitted that the current coal supply agreement is valid upto 31 July, 2026 and the current gas supply agreement is valid upto 31 July, 2026. TPC-G further, submitted that the new agreements would be executed subject to the outcome of the finalisation of new PPAs.

8.4.3 The Commission sought the details of measures for fulfilling the shortfall in fuel quantum, if any, from the current FSAs. In reply, TPC-G submitted that the current contracts are adequate for meeting the projected Availability of its thermal Units. TPC-G submitted that alternate arrangements have been made based on the type of fuel in case of any non-availability under current contracts due to uncontrollable factors from the existing supplier side. Coal would be arranged through the short-term spot contracts/sourcing distress shipments as and when available on competitive basis from Open Market on need basis. Gas would be arranged through the purchase of RLNG under auction purchase/spot contract, if required. TPC-G submitted that the alternate arrangements would be pursued after due consultation with the beneficiaries as per the prevailing Regulations.

.....
8.8.9 The Commission sought the current status of imported coal supply agreement for FY 2023-24 and FY 2024-25. The Commission also sought the basis and detailed rationale for reduction in imported coal prices for FY 2023-24 and FY 2024-25 along with supporting documents. In reply, TPC-G submitted that the coal contracts for the period beyond July, 2024, if required, would be executed through tendering process depending on the market scenario. TPC-G submitted that it has procured coal shipments for Q1 of FY 2023-24 on ICI-3/ICI-4 linked prices. TPC-G submitted the copies of coal contracts.



8.8.10 TPC-G further submitted that it has planned to procure coal at the most optimum market price to optimise the cost of generation. TPC-G is closely monitoring the indices on day-to-day basis for procuring the most economic sourcing of coal. Further, the trend of ICI-3/ICI-4 during the period from November 2022 to February 2023 shows a downward trend.

.....

8.8.15 The Commission is aware that in FY 2021-22 and FY 2022-23 there has been a very large volatility in the prices of imported coal. The volatility and the increase in the price directly affect the end tariff of the consumers. The Imported coal needs to be procured based on international index. The Commission has analysed the month wise ICI-3 and ICI-4 index imported coal price for FY 2022-23 i.e., from April 2022 to March 2023. Based on the analysis and the data available in the Public Domain there looks to be a possibility of softening of imported coal prices. The same is indicated by the imported ICI index as ICI 4 imported coal price for the month of March 2023 has reduced to 72.82 \$/T in March 2023 from 91.39 \$/T in January 2022. (Source www.argusmedia.com). Further, the imported coal price is linked to GCV of coal and hence the imported coal pricing cannot be taken in isolation to GCV of imported coal.

8.8.16 As discussed earlier, the average imported coal price for the latest three months from January 2022 to January 2023 as per the provisions of MYT Regulations, 2019 works out to be around Rs 14072/MT. However, based on the analysis of the ICI 4 index for the past 9 months, the extreme volatility in the imported coal market and in the interest of the consumers, the Commission by exercising its Power to Remove Difficulties under Regulation 106 of MYT Regulations, 2019 has considered the imported coal price of Rs 12500/MT for approving the energy charges for FY 2023-24 and FY 2024-25. This approach of considering imported coal price in deviation to approach as per MYT Regulations, 2019 is in very specific/isolated condition due to volatility of imported coal prices and hence cannot be taken as precedence.

8.8.17 The Commission in MYT Order has considered escalation of 3% in fuel prices for approving the Energy Charges for ensuing years. In case of TPC-G, the major fuel source is imported coal and as submitted by TPC-G the imported coal prices. As discussed earlier, based on analysis of ICI.4 imported coal prices for the period April 2022 to March 2023, there appears to be a possibility of softening of coal prices. Hence, the Commission, for the purpose of this Order, has not considered any escalation in fuel prices for FY 2023-24 and FY 2024-25.”

- 5.7 The previous coal purchase contract of TPC-G, which was for 2.2 Million MT and valid for two years from August 1, 2020, to July 2022, has expired. It has been further extended for an additional two years through competitive bidding, based on the HBA index, for the period from August 1, 2022, to July 31, 2024. TPC stated that, if extension required post expiry of the contract, it would be executed through tendering process depending on the market scenario and outcome of finalisation of new PPA. The Commission notes that the purchase of coal has been from the contracts entered into by TPC-G. TPC further stated that, in case of any non-availability under current contracts due to uncontrollable factors



from the existing supplier side. TPC-G would arrange the coal through open market on competitive basis or short-term spot contract. Also, TPC-G has entered into coal contract to procure imported coal from multiple sources at price linked with ICI index till December 2024. TPC-G has also signed contract with GAIL for supply of APM Gas for the period 7 July, 2021 to 6 July, 2026.

- 5.8 In MTR Petition, TPC-G submitted that in order to reduce the cost of generation, it is exploring ICI index coal which has less value than HBA index. The Commission in its MTR order dated 31 March, 2023 in Case No. 221 of 2022, held the following regarding the procurement of ICI index linked coal by TPC-G:

“8.8.14 Based on the actual imported coal price details submitted by TPC-G for the months of October 2022 to January 2023, the Commission finds that the price of imported coal for the said period is lower than that for July-September, 2022. Further, the Commission observes that TPC-G is endeavouring to procure more imported coal at lower prices based on ICI index. Therefore, the Commission has examined the actual coal price for ICI linked procurement during the months of November, 2022 to January, 2024.....”

- 5.9 It is observed that TPC-G has entered into contract to procure Indonesian origin coal with coal specifications similar to TPC-G’s long term contracted coal, with price linked to ICI index and the same offers significant cost advantage over HBA pricing.
- 5.10 The net design energy for Bhira, Bhivpuri and Khopoli hydro as envisaged in the MTR order were 736.68 MU, 190.91 MU and 172.58 MU, respectively. It was observed that actual cumulative generation in the month of December 2024 exceeded the net design energy generation by Bhivpuri and Khopoli hydro. Therefore, net energy generation from December 2024 has been charged at Rs. 1.20/kWh, as per Regulation 51.8 of MYT Regulations, 2019. The Commission notes that TPC-G has levied energy charges in line with MYT Regulations, 2019. Relevant clause from MYT Regulations, 2019 is reproduced below –

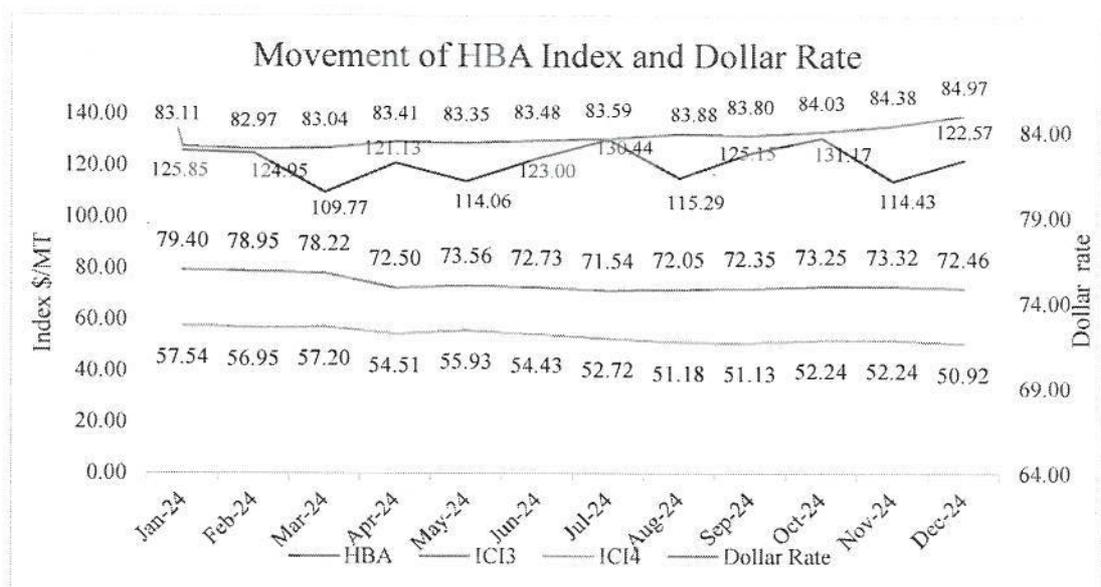
“51.8 In case the Energy Charge Rate (ECR) for a Hydro Generating Station, as computed in Regulation 51.6, exceeds ninety paise per kWh, and the actual saleable energy in a Year exceeds $\{ DE \times (1 - AUX) \}$ kWh, the Energy Charge for the energy in excess of the above shall be billed at one hundred and twenty (120) paise per kWh only.”

- 5.11 The APPC for TPC-G, which generates power on Imported Coal, Domestic Natural Gas (under APM mechanism), Oil (LSHS), imported RLNG and hydro has been worked out at Rs. 5.76/kWh as against the approved rate of Rs. 6.18/kWh.
- 5.12 The landed cost of coal for energy charge computation as claimed by TPC-G is Rs. 9,034.25/MT as compared to approved rate of Rs. 12,500/MT. It can be seen that the actual landed price is lower as compared to approved rate in the Tariff Order. TPC-G’s thermal power plant at Trombay is operated with 100% Indonesian coal. As mentioned above, TPC-G has purchased Indonesian origin coal linked to ICI4 index in



December 2024, which is cheaper, to optimise the cost. The Commission observes that there has been a decreasing trend in the imported coal price primarily attributed to demand supply position of the global coal market which is reflected in the HBA and ICI index for the last few months. The Commission notes that MYT Regulations, 2019 permit use of alternate source of fuel for optimization of economical operation through blending. However, TPC-G used the coal purchased in the previous month and did not purchase any coal in December 2024. It is also observed that the price of APM Gas was Rs. 32,039.45/SCM in December, 24 which is also lower than the approved rate of Rs. 41,279/SCM in MTR Order. However, the Commission notes that prices of APM Gas as per notification by Ministry of Petroleum and Natural Gas, Government of India in December 2024 was \$6.50/MMBTU.

- 5.13 TPC-G mainly procures imported coal from Indonesian market. As per the Contract, the coal reference price is HBA index i.e., Harga Batubara Acuan and ICI index i.e., Indonesian Coal Index for Indonesian coal which is set by Ministry of Energy and Mineral Resources (Indonesia). The Commission has sought for prevailing HBA/ICI index during the aforesaid period along with the detailed computation of FOB price at which the coal has been procured by TPC-G. The graph below shows the trend of HBA, ICI3 and ICI4 index which is considered by TPC-G for energy charge calculations.



* - HBA index at 6,322 kcal/kg GAR coal with 8% total moisture, 15% ash as received and 0.8% sulphur
 #-ICI3 index at 4,800 kcal/kg GAR and ICI- 4 index at 4,200kcal/kg GAR.
 @ - For the ICI 3 and 4 index, the average rate for the month is considered
 \$ - Dollar Rate source - www.x-rates.com (Average rate for the month for representation purpose and may not be a reference rate at which Coal is procured)

- 5.14 The Commission observes that TPC-G has not purchased coal during the month of December 2024 and consume the coal from stock purchase during previous month.
- 5.15 The Commission notes that TPC-G in Form 12 had considered coal consumption cost during the month based on weighted average of opening inventory and coal purchased



during the month as per methodology approved by the Commission. TPC-G has considered the closing of November 2024 which is matching with closing amount determined based on weighted average rate of computing coal by the Commission. Hence, the Commission has considered the same for computing the energy charge which is in line with TPC-G submission.

- 5.16 It is observed that there is difference in coal cost considered in Form 11 and Form 12. TPC-D submitted that the difference in the cost is due to Foreign exchange variation due to difference in dollar rate at the time of booking of Purchase Order and the actual payment made to vendor and the employee cost. Accordingly, the coal consumption cost considered by the Commission as per Form 11 is as given below:

Particulars	Units	TPC Submission	As Approved
Form F12 - Coal Consumption Cost	Rs/MT	8,274.31	8,274.31
Foreign Exchange Rate Variation	Rs/MT	687.01	687.01
Employee Cost	Rs/MT	72.93	72.93
Form F11 - Coal Consumption Cost	Rs/MT	9,034.25	9,034.25

- 5.17 The Commission notes that TPC-D has claimed other adjustment such as thermal incentive to TPC-G of Rs. 0.25 Crore, auxiliary power consumption credit of Rs. 0.10 Crore, and compensation of Rs. 1.65 Crore on account of Heat Rate and Auxiliary degradation due to part load operation as per provisions of Maharashtra Electricity Grid Code, 2020, amounting to a total of Rs. 1.80 Crore (0.25+0.10+1.65 = Rs. 1.80 Crore). The Commission has considered the same as per invoice raised by TPC-G. In view of the above, the Commission has considered APPC of Rs. 5.76/kWh as against approved rate of Rs. 6.18/kWh for power purchased from TPC-G for the month of December, 2024. The said amount is considered as per invoice raised by TPC-G.

- 5.18 Variation in power purchase expenses from TPC-G can be divided on account of change in quantum and per unit rate as follows:

Month	Increase in Expenses for power purchase from TPC-G (Rs. Crore)		
	On Account of change Quantum of Power Purchase	On Account of change in Per Unit rate of Power Purchase	Total
December 2024	(43.26)	(7.20)	(50.46)

Out of above, variation on account of increased per unit rate is only considered for FAC computation.

Renewable Sources

- 5.19 TPC-D has tied up non-solar generation (wind) of 87.50 MW, 178.06 MW of solar and 225 MW wind-solar hybrid to meet its Renewable Purchase Obligation.
- 5.20 TPC-D had purchased solar RE (58.64 MU) and non-solar RE (37.64 MU) power during the month of December, 2024. TPC-D has purchased 57.60 MU of solar energy from its



long-term contracts at weighted average Rs. 3.23/kWh and this also includes solar power from 225 MW wind-solar hybrid project and the impact of a Change in Law, amounting to Rs. 0.40 crore (Rs. 0.31 Crore for solar and Rs. 0.08 Crore for non-solar), due to the increase in Goods and Services Tax (GST) on supply and service contracts, as per the GST notification dated September 30, 2021, approved under Case No. 34 of 2023 on 28 November, 2023. The Commission has considered the total solar energy of 57.60 MU at the rate of Rs. 3.23/kWh as submitted by TPC-D. The said solar purchase is considered as per the invoice submitted by TPC-D. In respect of non-solar, TPC-D has submitted that it is yet to receive credit notes (invoices) for the wind power procured from various generators during December, 2024 and accordingly wind power purchase has been considered based on the monthly meter reading data as 14.38 MU at rate of Rs. 3.76/kWh, this purchase includes wind power from 225 MW wind-solar hybrid project and impact of the Change in Law amounting to Rs. 0.08 Crore. Additionally, TPC-D purchased 20.78 MU of wind power at Rs. 3.15/kWh. The Commission has considered the total solar energy of 57.60 MU at the rate of Rs. 3.23/kWh and non-solar energy of 35.17 MU at the rate of Rs. 3.40/kWh as submitted by TPC-D. However, TPC-D is directed to submit the invoices of non-solar wind energy purchase during the FAC submission of next month for verification.

- 5.21 TPC-D has also purchased 1.04 MU, 2.36 MU and 0.12 MU of solar energy, non-solar and hydro power respectively from IEX through G-DAM at Rs. 5.84/kWh. The Commission has considered total energy under GDAM transaction of 3.52 MU at the rate of Rs. 5.84/kWh as submitted by TPC-D.
- 5.22 The Commission observes that TPC-D has purchased total 96.28 MU of RE power during the month of December, 2024. **The average power purchase cost from RE sources is Rs. 3.38/kWh as compared to approved rate of Rs. 3.17/kWh. Accordingly, the Commission has considered RE purchase as submitted by TPC-D.**
- 5.23 Variation in power purchase expenses from RE Sources can be divided on account of change in quantum and per unit rate as follows:

Month	Increase in Expenses for power purchase from RE Sources (Rs. Crore)		
	On Account of change Quantum of Power Purchase	On Account of change in Per Unit rate of Power Purchase	Total
December 2024	(7.83)	2.05	(5.78)

Out of above, variation on account of increased per unit rate is only considered for FAC computation.

Short Term Purchase

- 5.24 With regards to short term purchase, TPC-D has purchased 201.93 MU at average rate of Rs. 3.41/kWh as compared to approved rate of Rs. 5.07/kWh to meet its demand.



- 5.25 TPC-D has purchased 40.20 MU at Rs. 3.44/kWh, 64.83 MU at Rs. 3.48 /kWh, 4.18 MU at Rs. 7.10/kWh and 1.17 MU at Rs. 9.24/kWh from IEX-DAM, IEX-RTM, IEX-TAM and PXIL-TAM, respectively in the month of December, 2024. Overall, TPC-D has purchased 110.38 MU from Power Exchanges at rate of Rs. 3.66/kWh. Also, TPC-D has purchased 15.85 MU, 15.34 MU and 30.56 MU at rate of Rs. 4.47/kWh, Rs. 4.63/kWh and Rs. 4.60/kWh from M/s Kreate Energy (I) Pvt. Ltd. (M/s. KEIPL) and Tata Power Trading Private Limited (TPTCL) from Source – Tata Power Company – Haldia (TPC-H) and Tata Power Trading Private Limited (TPTCL) from Source - MB Power (Madhya Pradesh) Limited (MBPL) under bilateral contract, respectively. In response to the query raised by the Commission regarding whether the power procured from M/s. KEIPL and M/s. TPTCL are under competitive bidding, TPC-D submitted that in pursuant to the competitive bidding process and e-Reverse Auction, M/s KEIPL and M/s. TPTCL were selected as successful bidder. TPC-D has intimated to the Commission pertaining to procurement of power under competitive bidding process for short term, vide letter dated 08 November, 2024. TPC-D has also claimed Rs. 15,000 for MSLDC Standing Clearance Charges for power sale and purchase from power exchange.
- 5.26 The Commission has observed that TPC-D has executed the agreement with BEST and AEML-D of Inter-Discom trade of Power under MERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2019 read with Scheduling and Dispatch code, which *inter alia* provides guiding principles for exchange of power between utilities on Day-ahead and Intra-day basis. In view of the above, TPC-D has purchased 0.004 MU at Rs. 10.00/kWh, from AEML-D.
- 5.27 TPC-D has entered a banking arrangement wherein Kreate Energy (I) Private Limited - KEIPL (Source – CSPDCL) will bank power with TPC-D over the period from 15 October, 2024 to 31 March 2025. The return of banked power at 105% by TPC-D will be from 1 July 2025 to 30 September 2025. KEIPL (Source – Other Utility) has banked 29.80 MU with TPC-D in December 2024. For the purpose of banking, open access charges of Rs. 0.12 Crore have been incurred under the banking contract. The same has been included in the cost of power procurement for December 2024.
- 5.28 Variation in power purchase expenses from Short Term Sources can be divided on account of change in quantum and per unit rate as follows:

Month	Increase in Expenses for power purchase from Short Term (Rs. Crore)		
	On Account of change Quantum of Power Purchase	On Account of change in Per Unit rate of Power Purchase	Total
December 2024	21.90	(33.54)	(11.64)

CTU /GNA/RTDA charges



5.29 TPC-D has claimed ISTS charges amounting to Rs. 8.60 Crore for the month of November, 2024, as raised by Central Transmission Utility India Limited, in accordance with the provisions of the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) (First Amendment) Regulations, 2023. Therefore, the Commission has considered the ISTS charges of Rs. 8.60 Crore.

Deviation Quantum and Cost

5.30 It was observed that TPC-D has overdrawn 1.20 MU during the month of December, 2024. The said deviation quantum is arrived after grossing up T-D periphery quantum to G-T periphery by considering the normative transmission loss of 3.18%. Accordingly, the deviation quantum (1.20 MU) and cost (Rs. 5.18 Crore) has been considered as per provisional weekly invoice raised by MSLDC for the period 1 December, 2024 to 31 December, 2024. Further, it is observed that TPC-G has not considered DSM and ADSM charges for calculation of energy charges as well as fixed charges. Also, TPC-D has considered only DSM charges and not considered ADSM charges for calculation of cost towards deviation quantum.

Sale of Power

5.31 TPC-D has done sale of surplus power to the extent of 1.33 MU during the month at Rs. 6.80 /kWh. With such a sale of power TPC-D has earned revenue of Rs. 0.90 Crore. TPC-D has sold surplus power of 1.33 MU at Rs. 6.80/kWh thereby benefitting its consumers. Hence, the Commission has considered the actual quantum and revenue against surplus sale.

Approved Cost of Power Purchase

5.32 In view of the above, the overall cost approved in the Tariff Order and actual for the month of December, 2024 considered by the Commission is as shown below:

Particulars	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)
TPC-G	Approved	241.31	37.64	1.56	111.51	4.62	149.15	6.18
	Actual	171.31	25.00	1.46	73.68	4.30	98.69	5.76
RE and Additional RE Sources	Approved	120.95	-	-	38.37	3.17	38.37	3.17
	Actual	96.28	-	-	32.59	3.38	32.59	3.38
Bilateral (Short Term)	Approved	158.71	-	-	80.43	5.07	80.43	5.07
	Actual	201.93	-	-	68.80	3.41	68.80	3.41
CTU/Sch./GNA/RTD A charges	-	-	-	-	-	-	-	-
	-	-	-	8.61	-	8.61	-	-
	Approved	-	-	-	-	-	-	-



Particulars	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)
Deviation Quantum	Actual	1.20			5.18	43.15	5.18	43.15
Sale of Surplus Power	Approved	-	-	-	-	-	-	-
	Actual	(1.33)		-	(0.90)	6.80	(0.90)	6.80
Total	Approved	520.97	37.64	0.72	230.31	4.42	267.95	5.14
	Actual	469.39	25.00	0.53	187.95	4.00	212.95	4.54

5.33 Considering the above, the Commission allows the average power purchase cost of Rs. 4.54/kWh for the month of December, 2024 as shown in Table above. The actual purchase for same month in FY 2023-24 i.e., December, 2023 was 473.60 MU and power purchase cost was Rs. 234.70 Crore with APPC of Rs. 4.94/kWh.

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

6.1 The Commission has worked out the average power purchase cost for the month of December, 2024 as shown in above table. The same has been compared with the average power purchase cost approved by the Commission in Tariff Order dated 06 March, 2024 and accordingly arrived at differential per unit rate at which Z_{FAC} is to be passed on to the consumers.

6.2 The following table shows the Z_{FAC} worked out by the Commission on account of difference in fuel and power purchase cost for the month of December, 2024.

S. No.	Particulars	Units	December 2024
1	Average power purchase cost approved by the Commission	Rs./kWh	5.14
2	Actual average power purchase cost	Rs./kWh	4.54
3	Change in average power purchase cost (=2 -1)	Rs./kWh	(0.61)
4	Net Power Purchase	MU	469.39
5	Change in fuel and power purchase cost (=3 x 4/10)	Rs. Crore	(28.46)

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

7.1 The Commission has not approved any levy of FAC in December 2024 and thus there would not be any adjustment factor that is to be considered while computing allowable FAC.

8. Carrying/Holding Cost for over recovery/under recovery (B)

8.1 Since there is no FAC Levy, there is no computation of Carrying/Holding Cost for Over recovery/Under recovery.



9. Disallowance due to excess Distribution Loss

- 9.1 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”

The following table provides the comparison of approved and actual distribution loss and disallowance due to excess distribution loss if any.

S. N	Particulars	Units	Approved in Tariff Order	December 2024- Actual	Actual Cumulative (up to December 2024)	Annual Sliding Distribution Loss (January 2024 to December 2024)
1	Net Energy Input at Distribution Voltage	MU	3796.94	286.68	2834.068	3661.01
2	TPC-D Retail Sales (excluding sales at 110/132 kV level)	MU	3758,21	280.68	2790.436	3604.94
3	Distribution Loss (1 - 2)	MU	38.73	5.99	43.63	56.07
4	Distribution Loss as % of net energy input (3/1)	%	1.02%	2.09%	1.54%	1.53%
5	Excess Distribution Loss = [Actual Distribution Loss (4) - Distribution loss approved] x Net Energy Input (1)	MU	-	-	-	1.47
6	Disallowance of FAC due to excess Distribution Loss	Rs. Crore	-	-	-	-

- 9.2 It is seen that standalone distribution loss for the month of December, 2024 is 2.09%, which is higher than the approved loss. The cumulative loss up to December 2024 of 1.54% is higher than approved loss i.e., 1.02%. In response to the query raised by the Commission, TPC-D submitted that in monthly distribution loss computation, input



energy is considered for calendar month and energy billed in the month (output energy) does not correspond to exact calendar month on account of billing cycle spread across consecutive months. However, such variations normalise when cumulative losses are considered for the year. It is observed that annual sliding distribution loss of 1.53% for January 2024 to December 2024 is higher than approved loss of 1.02%.

- 9.3 The Commission notes that estimated sales for the month of December, 2024 is only 0.14% of the total sales i.e., 0.62 MU. The comparison of Distribution Loss for December, 2024 as compared to previous years is as given below:

Particulars	FY 2024-25	FY 2023-24
Approved Loss	1.02%	1.02%
April	2.05%	3.18%
May	3.89%	2.71%
June	-0.62%	-0.28%
July	0.31%	1.49%
August	1.88%	1.49%
September	0.33%	0.38%
October	4.65%	2.57%
November	-1.53%	-1.15%
December	2.09%	0.99%
Cumulative up to December	1.54%	0.86%

- 9.4 It is observed that Annual Sliding Loss for the month of December, 2024 is higher than approved loss and the standalone FAC for the month is negative. Hence, the Commission has not worked out any disallowance on account of excess Distribution Loss for the month of December, 2024.

10. Summary of Allowable Z_{FAC}

- 10.1 The summary of the FAC amount as approved by the Commission for the month of December, 2024 is as shown in the Table below:



S. No.	Particulars	Units	December 2024 - As per TPC	December 2024- As Approved
1.0	Calculation of ZFAC			
1.1	Change in cost of generation and power purchase attributable to Sales within the License Area (F)	Rs. Crore	(28.46)	(28.46)
1.2	Carrying cost for over-recovery/under-recovery (C)	Rs. Crore	(0.00)	0.00
1.3	Adjustment factor for over-recovery/under-recovery (B)	Rs. Crore	(0.07)	0.00
1.4	ZFAC = F+C+B	Rs. Crore	(28.54)	(28.46)
2.0	Calculation of Per Unit FAC			
2.1	Energy Sales within the License Area	MU	436.61	436.61
2.2	Excess Distribution Loss	MU	1.47	1.47
2.3	ZFAC per kWh	Rs./kWh	(0.65)	(0.65)
3.0	Allowable FAC			
3.1	FAC disallowed corresponding to excess Distribution Loss [(2.2 x 2.3)/10]	Rs. Crore	(0.10)	0.00
3.2	FAC allowable [1.4-3.1]	Rs. Crore	(28.44)	(28.46)
4.0	Utilization of FAC Fund			
4.1	Opening Balance of FAC Fund	Rs. Crore	(27.52)	0.00
4.2	Carrying Cost on FAC Fund	Rs. Crore	0.04	0.00
4.3	Z _{FAC} for the month (Sr. N. 3.2)	Rs. Crore	(28.44)	(28.46)
4.4	Closing Balance of FAC Fund	Rs. Crore	(55.92)	(28.46)
4.5	Z _{FAC} leviable/refundable to consumer	Rs. Crore	(55.92)	0.00
5.0	Total FAC based on category wise and slab wise allowed to be recovered	Rs. Crore	(55.92)	0.00
6.0	Carried forward FAC for recovery during future period (4.5-5.0)	Rs. Crore	0.00	0.00

10.2 The Commission notes that TPC-D has considered the opening FAC Fund and added the standalone monthly FAC amount to the said fund and deducted FAC recovery amount in the month on December 2024 to arrive at the closing fund. The Commission in its FAC approval for June 2024 has allowed FAC recovery at ceiling rate up to November 2024. The Commission, thereafter, has issued MYT Order on 28 March, 2025 and approved the



revised power purchase cost in the Provisional Truing-up of FY 2024-25 and accordingly determined tariff for 5th Control Period i.e., from FY 2025-26 to FY 2029-30. Thus, the Commission is approving the monthly FAC for standalone month as per provisions of MYT Regulations, 2019 and has not considered any adjustment towards FAC fund as the said amount is subsumed and already adjusted in provisional truing-up of FY 2024-25.

11. Recovery from Consumers:

11.1 Regulation 10.9 of 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: —

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

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....”

11.2 Accordingly, the Commission allows the FAC amount of Rs. (28.46) Crore for the month of December, 2024. As FY 2024-25 is already over and Provisional Truing-up of FY 2024-25 has also been done by the Commission in the recent MYT Order dated 28 March, 2025, the revised power purchase cost resulting in FAC is already adjusted in the said MYT Order.



11.3 In a view of above, the per unit Z_{FAC} for the month of December, 2024 to be levied on consumers of TPC-D is Nil.



