



महाराष्ट्र विद्युत नियामक आयोग
Maharashtra Electricity Regulatory Commission

Ref. No. MERC/FAC/2021-22/E-Letter

Date: 26 April 2021

To,
The General Manager
The Brihanmumbai Electric Supply and Transport Undertaking
BEST Bhavan, BEST Marg
Post Box No. 192
Mumbai 400 001.

Subject: Prior Approval of FAC of BEST Undertaking for the month of February, 2021.

Reference:

1. FAC submission dated 12 April 2021 for the month of February, 2021.
2. Data gaps communicated vide email dated 13 April, 2021.
3. BEST Undertaking's complete submission received on 15 April, 2021.

Sir,

Upon vetting the FAC calculations for the month of February, 2021 as mentioned in the above reference, the Commission has accorded approval for FAC of **Rs. (20.38) Crore** to its consumers as shown in the table below:

Month	FAC Amount (Rs. Crore)
February, 2021	0 (Zero)

The Commission allows the accumulation of FAC amount of **Rs. (255.84) Crore** which shall form part of FAC Fund and shall be carried forward to next FAC billing cycle with holding cost as per the Order dated 30 March, 2020 in Case No 324 of 2019. Further, as directed in the said Order, BEST Undertaking 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,

(Prafulla Varhade)
Director (EE)

Encl: Annexure A: Detailed Vetting Report for the month of February, 2021.



PRIOR APPROVAL FOR FAC CHARGES FOR THE MONTH OF FEBRUARY 2021

Subject: Prior Approval of Fuel Adjustment Charges (FAC) submission of BEST Undertaking for the month of February, 2021.

Reference:

1. FAC submission dated 12 April, 2021 by BEST Undertaking for prior approval of FAC for the month of February, 2021.
2. Data gaps communicated to BEST Undertaking vide email dated 13 April, 2021.
3. BEST Undertaking's complete submission received on 15 April, 2021.

1. FAC submission by BEST Undertaking:

1.1 BEST Undertaking ('BEST') has submitted FAC submissions for the months of February, 2021 as referred above. Upon vetting the FAC calculations, taking cognizance of all the submissions furnished by BEST against the data gaps issued, the Commission has accorded prior approval to BEST for negative FAC amount of Rs. 20.38 Crore. The approved FAC amount shall form part of FAC Fund and shall be carried forward to next FAC billing cycle with holding cost as per the Order dated 30 March, 2020 in Case No 324 of 2019 (herein after referred to as "Tariff Order").

2. Background

2.1 On 30 March, 2020, the Commission has issued Tariff Order for BEST (Case No.324 of 2019) for True-up of FY 2017-18 and FY 2018-19, provisional True-up for FY 2019-20, and Aggregate Revenue Requirement and Tariff for FY 2020-21 to FY 2024-25. Revised Tariff has been made applicable from 1 April, 2020.

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

"8.2.15 Stabilising variation in consumer bill on account of FAC

.....

8.2.15.4 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:

a. 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:

(i) Negative FAC amount shall be carried forward to the next FAC billing cycle with holding cost;

(ii) 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;

(iii) 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 BEST, such limit shall be Rs. 59 Crore. Any accumulated amount above such limit shall be refunded to consumers through FAC mechanism;

(iv) 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.

8.2.15.5 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. Further, till date, the Distribution Licensees have been levying FAC up to the prescribed limit of 20% of variable component of tariff without prior approval in accordance with the MYT Regulations, 2015, and submitting the FAC computations on a quarterly basis within 60 days of the close of each quarter, for post facto approval. However, as the Commission has created a FAC fund as stated above to address 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.

8.2.15.6 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. This prior approval will facilitate the addressing of any difficulties that may arise in giving effect to this fund. All the details will be submitted by the Distribution Licensee as is being done for approval of FAC on post facto basis. Thus, the FAC to the consumers shall now be levied with prior approval of the Commission”

- 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, BEST has filed FAC submissions for the month of February, 2021 for prior approval of the Commission. The Commission has scrutinized the submissions provided by BEST 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 BEST in the FAC submission and as approved by the Commission are as shown in the table below:

Table 1: Energy Sales Approved and Actual for the Month of February 2021 (MUs)

Consumer Category	Approved by the Commission (MU)	Monthly Approved* (MU)	Actual Sales
	(I)	(II=I/12)	February, 2021 (MU)
	(I)	(II=I/12)	(III)
HT I- Industry	156.73	13.06	11.11
HT II - Commercial	278.98	23.25	14.18
HT III - Group Housing Society (Residential)	30.65	2.55	2.22
HT IV – Railways/Metro/Monorail	2.14	0.18	0.17
HT V - Public Services			
<i>a) Govt. Edu. Inst. & Hospitals</i>	26.59	2.22	1.93
<i>b) Others</i>	196.66	16.39	13.54
HT-VI EV Charging Stations	-	-	-
Total HT Sales	691.74	57.65	43.15
LT I (A)- Residential (BPL)	0.07	0.01	0.00
LT I (B)- Residential	2,075.48	172.96	141.40
LT II - LT Commercial			
<i>(A)- upto 20 kW</i>	919.85	76.65	56.66
<i>(B) >20 kW and <50 kW</i>	211.13	17.59	10.99
<i>(C) - 50 kW</i>	370.00	30.83	21.29
LT III (A) - Industry < 20 kW	43.23	3.60	7.52
LT III (B) - Industry > 20 kW	90.31	7.53	5.99
LT IV - Public Services			
<i>a) Govt. Edu. Inst. & Hospitals</i>	55.68	4.64	3.76
<i>b) Others</i>	185.87	15.49	11.58
LT V(A) – Agriculture Pumpsets	-	-	-
LT V(B) – Agriculture Others	-	-	-
LT VI - EV Charging Stations	0.30	0.03	0.39
Total LT Sales	3,951.92	329.33	259.59
Total	4,643.66	386.97	302.74



*- Monthly approved sales is derived based on average of annual sales for comparison purpose.

- 3.2 **It is observed that the actual sales for the month of February 2021 is 302.74 MU which is lower by 21.77% as compared to the approved energy sales of 386.97 MU.** With respect to the consumption, HT category consumption is 43.15 MU which is on a lower side by 25.14% compared to approved monthly HT energy sales of 57.65 MU and the reduction has been noticed by 21.18% on LT side whereby the actual sales is 259.59 MU as compared to approved monthly LT energy sales of 329.33 MU. The major variation was observed across all categories in view of lower sales except LT Industrial (below 20 KW load) and LT EV Charging Station category. BEST has also submitted the data providing actual billing and estimated billing undertaken for the calculation of total energy consumption for the month of February 2021.
- 3.3 BEST further submitted the number of actual and estimated meter readings undertaken for the month of February 2021 as shown below:

Table 2: No. of Meters reading on actual and estimated basis for February 2021

Sr. No.	Particulars	No. of Meters for which <u>actual</u> meter reading is done either manually or through AMR	No. of Meters for which meter reading are <u>estimated</u> .	Total Meters
1	HT	195	0	195
2	LT	1030225	12884	1043109
	Total	1030420	12884	1043304
	%	99%	1%	100%

- 3.4 Accordingly, the Commission has also analysed the comparison of estimated sales and sales based on actual meter reading for the month of April 20 to February 2021 and is observed that the assessed sales percentage has been reducing gradually and is constant around 1% from September 2021 to February 2021.

Table 3: Actual and Estimated Sales from April 2020 to February 2021

Particulars	April-20	May-20	June-20	July -20	Aug 20	Sep 20	Oct 20	Nov 20	Dec 20	Jan-21	Feb-21
Actual MUs	39.19	107.16	348.13	289.63	290.56	324.83	349.96	321.23	303.02	281.04	300.36
Estimated MUs	264.39	192.94	41.79	21.90	5.78	3.58	2.89	4.38	3.50	2.49	2.38
Total	303.58	300.11	389.91	311.53	296.34	328.41	352.85	325.61	306.51	283.52	302.74
% sales based on Estimated Reading	87%	64%	11%	7%	2%	1%	1%	1%	1%	1%	1%

- 3.5 **As per the data, the 100% of HT billing is undertaken on actual basis due to Automatic Meter Reading (AMR) in place whereas under LT category, the billing of about 98.77% is undertaken as per actual meter readings and balance 1.23% is still assessed on an estimated basis. Also, with respect to consumption, under LT Category, about 99.08% consumption is undertaken as per actual meter readings and balance 0.92% is still assessed on an estimated basis.**



- 3.6 As per BEST, such sales on estimation basis is not due to COVID impact but the estimation is undertaken when meter reading is not available in cases of defective meters and obstruction when key to consumer premises or service cabin is not available. Since this is a routine activity and meter reading is made available in the subsequent month, the billing system re-estimates as per pre-defined logic in the billing system. The Commission notes the submission made by BEST on estimated sales.
- 3.7 Further, comparison of sales from April 2020 to February 2021 as compared to last year are as shown below:

Table 4: Monthly Comparison of Sales for Residential, LT (Others) and HT Category

Particulars	LT - Residential (MU)	LT Others (MU)	HT (MU)	Total (MU)
Apr-19	196.59	168.19	57.38	422.16
Apr-20	149.90	114.49	39.19	303.58
May-19	208.00	175.89	61.48	445.37
May-20	158.43	98.95	42.73	300.11
Jun-19	186.91	163.21	61.03	411.15
Jun-20	191.74	156.65	41.52	389.91
Jul-19	176.73	159.26	62.19	398.17
Jul-20	164.72	100.36	46.45	311.53
Aug-19	178.71	157.18	59.68	395.56
Aug-20	159.28	90.03	47.03	296.34
Sep-19	167.06	149.14	56.41	372.61
Sep-20	175.55	106.10	46.76	328.41
Oct-19	183.14	161.18	58.06	402.38
Oct-20	180.80	123.36	58.42	362.58
Nov-19	166.84	154.91	56.63	378.38
Nov-20	160.76	118.91	45.94	325.61
Dec-19	149.08	147.75	55.24	352.07
Dec-20	139.66	120.10	46.75	306.51
Jan-20	123.71	131.42	50.95	306.08
Jan-21	125.81	111.98	45.74	283.52
Feb-20	149.81	141.05	48.46	339.32
Feb-21	141.40	118.19	43.15	302.74
April 19 – February 20	1,886.56	1,709.18	627.51	4,223.26
April 20 – February 21	1,748.05	1,259.10	503.69	3,510.84

- 3.8 The Commission observes that sales of HT and LT-others still continue to be lower. Also, the increase in sales of LT-Residential in February 2021 compare to January 2021 is also noticed which is based on seasonal change and has been witnessed last year also. Also, on a cumulative basis from Apr-20 to Feb-21, the total sales are lower by 16.87% as compared to same period last year.

4. Power Purchase Details

- 4.1 The Commission has approved following sources in the Tariff Order for power purchase



by BESTs.

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

4.2 In addition to the aforesaid, there may be some variation in real time (unscheduled interchange) which will be settled through Balancing and Settlement Mechanism as approved by the Commission.

4.3 Summary of Power Purchase for BEST is as follows:

Sr. No.	Particular	Compliance			
1	Sources of approved Power Purchase	BEST has purchased power from approved sources.			
2	Merit Order Dispatch	BEST has followed merit order for scheduling of power and preference was given to cheapest power.			
3	Fuel Utilization Plan	Existing contracts of TPC-G expired in July 2020. TPC-G has entered into new coal contracts for 2.2 MT for 2 years further extendable by 2 years as per directions of the Commission in TPC-G MYT Order through Competitive Bidding.			
4	Pool Imbalance	BEST has supplied 1.04 MU to the imbalance pool due to lower demand and also due to higher scheduling of power as per state MOD.			
5	Sale of Surplus Power	BEST has sold 0.10 MU on IEX at Rs. 3.59/kWh.			
6	Power Purchase	Actual Net Power Purchase is 302.65 MU as against approved 417.11 MUs due to lower sales			
7	Source wise Power Purchase	Source Name	Approved (MU)	Actual (MU)	Proportion of each Source in Actual Purchase
		TPC-G	299.04	207.93	68.70%
		Manikaran Power	62.05	66.30	21.91%
		RE Sources	2.63	2.77	0.92%
		Net Short Term	53.40	25.65	8.48%
		Total	417.11	302.65	100.00%
8	Power Purchase: a. Section 62 of Electricity Act, 2003	BEST is procuring power from only one source i.e. TPC-G under Section 62 of EA, 2003. As part of verification of fixed cost claimed by BEST, the same has been verified from the BEST MYT Order in Case No.324 of 2019.			



Sr. No.	Particular	Compliance
	b. Section 63 of Electricity Act, 2003	As part of verification of energy charges claimed by BEST, verification of operational parameters, fuel cost, GCV etc. vis-à-vis the MYT Order/Tariff Regulations is carried out The Power procurement from Manikaran Power is through competitive bidding and as approved by Commission. Cost and MUs verified as per Invoice
9	RE Purchase	Cost and MUs verified as per Invoice
10	Short Term Power Purchase	Short-term power purchase invoices of February 2021 are submitted by BEST. All the power purchase quantum and rate are verified from the invoices and has been considered for FAC calculation.

4.4 The BEST has purchased 302.65 MU as against approved 417.11 MU from the sources approved by the Commission. The reduction in Power Purchase is due to reduction in sales of BEST in the month of February 2021.

4.5 The following table show the variation in average power purchase cost (Rs/kWh) for the month of February, 2021 submitted by BEST as compared to average power purchase cost approved in Tariff Order:

Table 5: Approved and Actual Power Procurement source wise for the Month of February 2021

Particulars	Tariff Order Dated 30.03.2020			Actual for February, 2021 as submitted by BEST		
	FY 2020-21 – Approved					
	Net Purchase – Monthly*	Cost	Average Power Purchase Cost	Net Purchase	Cost	Average Power Purchase Cost
	MU	Rs. Crore	Rs/kWh	MU	Rs. Crore	Rs/kWh
TPC-G	299.04	134.85	4.51	207.93	81.92	3.94
TPC-G (Past Period) [§]		6.98			3.27	
Manikaran	62.05	27.14	4.37	66.30	25.80	3.89
RE Power	2.63	2.25	8.56	2.77	2.37	8.56
REC		5.39	1.00			
Short Term	53.4	21.36	4.00	25.75	9.93	3.86
Imbalance Pool						-
Gross Total	417.11	197.96	4.75	302.75	123.29	4.07
Less: Sale of Power to IEX				-0.10	-0.04	3.59
Net Power Procurement	417.11	197.96	4.75	302.65	123.25	4.07

* - 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



[§] Past Period Expenses approved by the Commission in TPC-G's MYT Order are allowed to be recovered from BEST in FY 2020-21 (Explanation in Para 5.23 to 5.25)

5. Power Purchase Cost

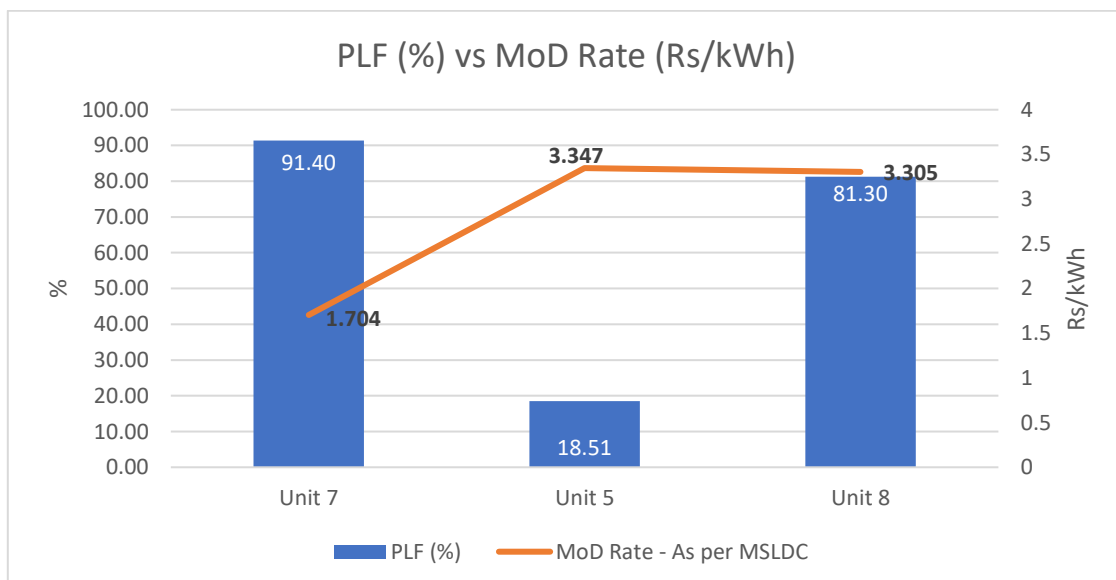
5.1 The Commission has sought detailed bills/invoices for all of the power purchase sources in order to verify the claim of BEST with regards to average power purchase cost for the month of February, 2021. The Commission has verified the Net Purchase, Variable Cost, Fixed Charge and the Power Purchase Cost from the relevant bills/invoices received for all purchasing sources. BEST has purchased power from approved sources as per the Tariff Order.

TPC-G

5.2 The Commission in its order dated 2 January, 2019 in Case No 249 of 2018 has allowed BEST to extend its existing PPA for 676.69 MW for a period of five years from 1 April, 2019 to 31 March, 2024. In line with the said Order, BEST share is 51.17% of the total capacity of TPC-G Unit 5, 7 and Hydro whereas its share is 40% in TPC-G Unit 8.

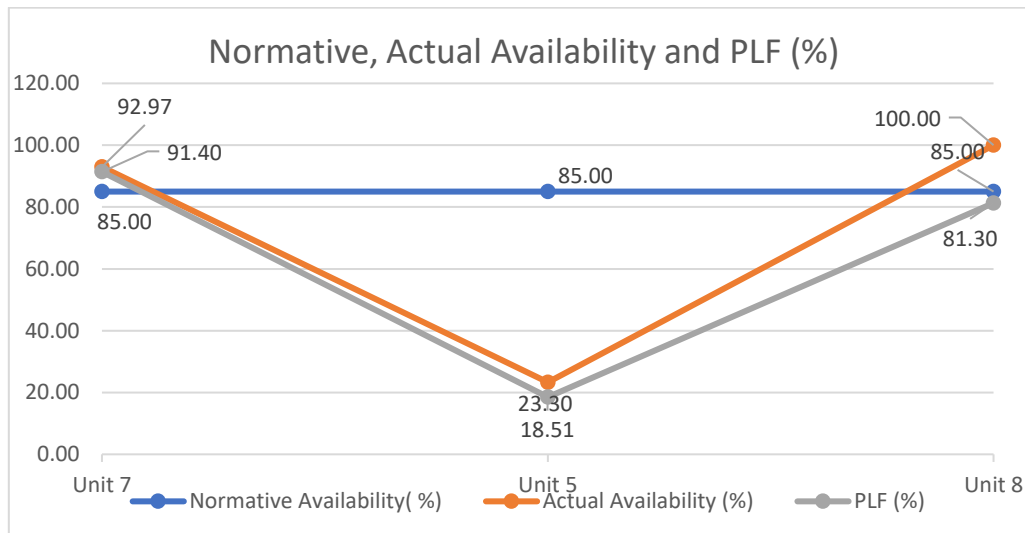
5.3 Since BEST and TPC-D have same generating source i.e. TPC-G, BEST has submitted and relied upon TPC-D's FAC submissions in respect of TPC generating units (TPC-G) to the extent they are relevant to BEST. Analysis of TPC-D's FAC submission for February 2021 in respect of TPC-G's supply has already been undertaken while approving FAC submission of TPC-D for February 2021. Accordingly, the Commission has considered the said submissions of TPC-D in respect of TPC-G.

5.4 TPC-G Unit 7 and Unit 8 have declared Availability of more than 93% and 100%, whereas Unit 5 has declared Availability of 23% due to planned outage for annual overhauling from 8 February, 2021. It is observed that Unit-7 having lowest rate in MOD has highest PLF of 91.40%. The graph showing the comparison of Variable Cost in MoD Stack and monthly PLF for TPC-G thermal/gas units is given below:



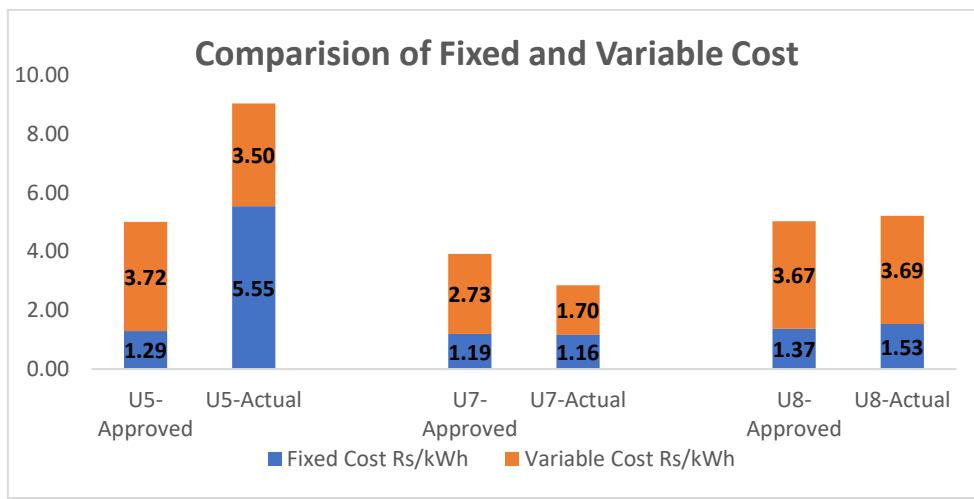
5.5 The Commission has observed that **BEST has purchased 207.93 MU from TPC-G as against monthly approved quantum of 299.04 MU. It was observed that Unit-7 having lowest rate in MOD has run at highest PLF of 91.40% thereby benefitting the consumers.**

5.6 All the Units of TPC-G were available during the given period. TPC-G Unit 7 and Unit 8 has declared Availability of more than 93% and 100% respectively, whereas Unit 5 have declared availability of 23% due to planned outage for annual overhauling from 8 February, 2021. The graphical comparison of normative availability and actual availability for the month of February 2021 is as given below:



5.7 The entire monthly fixed cost was payable in line with MYT Regulations, 2019 as the cumulative plant availability was higher than the normative availability of 85%. This has resulted into fixed cost being spread over lower net generation due to lower PLF. **However, the impact of increase in fixed cost is offset by lower variable cost.** The comparison of Actual and Approved Fixed and Variable Cost of Units as shown in the graph below shows the impact of fixed cost due to actual generation.





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

Table 6: Availability of TPC-G plant for the month of February 2021

TPC-G Units	Availability – February 2021	Availability – February 2020
Unit 5	23.30%	99.16%
Unit 7	91.40%	17.34%
Unit 8	100%	99.89%

5.9 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.

5.10 The Commission in its Order dated 30 March, 2020 in Case No 300 of 2019 in respect of Fuel Utilisation Plan of TPC-G as held as follows:

“7.17.7 Regarding the imported coal, it is submitted that Thermal Generating Station at Trombay needs ultra-low sulphur, low ash and Mid GCV coal to adhere with the stringent environment norms. Since, PPAs were not finalised during the year 2019 and there was uncertainty with respect to future tie-ups, the coal tie-ups were done only for a period of one year. The long term contract with Adaro is valid till 2020. Also, annual contract with Kideco and with Avra are valid upto July 31, 2020.

7.17.8 Regarding further fuel arrangement, the Commission notes the TPC-G’s submission that, existing PPAs are valid till March 31, 2024 and hence, it is exploring the options to tie up Coal on annual basis or on term basis, to get competitive prices for the required quantity in the best interest of consumers.

7.17.9 As regards Gas Contract, the Commission notes that existing APM gas Contract with GAIL is valid upto December 31, 2020. TPC-G submitted that it will be approaching GAIL for renewal of the contracts for further period as per usual practice.

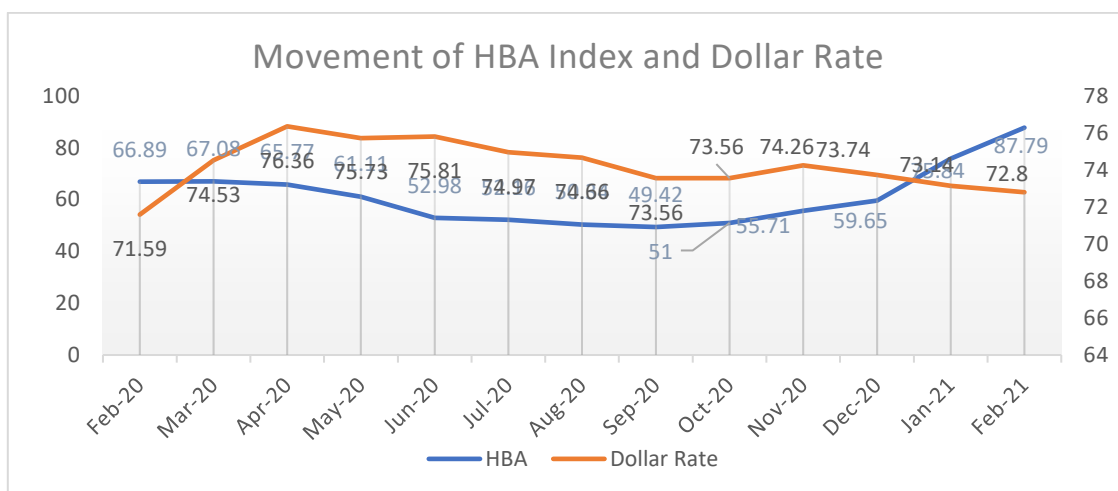
7.17.10 It is the primary responsibility of Generating Companies to ensure supply of fuel for operation of the plant However, the Commission, in the present Order, has



reviewed the fuel arrangement to ensure the availability of plant. Further, TPC-G has tied up its capacity with BEST and TPC-D, which are supplying power to Consumers in Mumbai city. The Commission notes that TPC-G has entered into Fuel Supply arrangement for shorter period in view of uncertainty of PPAs. The existing Coal contracts are valid upto July & August 2020 and Gas Contract upto December 2020. There is limited time available for entering into Fuel Supply contract. Hence, the Commission directs TPC-G to enter into fuel supply contracts or arrangement so as to ensure the supply of fuel till the validity of PPA, i.e., upto March 31, 2024 through transparent process of Competitive Bidding. Further, TPC-G is directed to submit its Status report, on arrangement of Fuel Supply for future period, to the Commission within three (3) months from the date of this Order.”

- 5.11 TPC-G’s existing contracts for coal purchase expired in July 2020. Vide its letter dated 8 July, 2020, TPC-G informed that it has entered into coal contracts for 2.2 Million MT for two years from 1 August, 2020 onwards and further extendable by two years through competitive bidding. The Commission notes that the purchase of coal has been from the contracts entered into by TPC-G. The existing contracts which were approved by the Commission in the MYT Order as part of Fuel Utilisation Plan have expired and new contract have been entered through Competitive Bidding. Accordingly, the new contracts for purchase of imported coal will now be considered as part of Fuel Utilisation Plan.
- 5.12 **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. 3.94/ kWh as against the approved rate of Rs. 4.51/kWh.**
- 5.13 **The variation in APPC is mainly on account of fixed charge payment as explained in paragraph above and also due to lower price of fuel for February, 2021. The landed cost of coal for energy charge computation as claimed by TPC-G is Rs. 6570.30/MT as compared to approved rate of Rs. 6705.91/MT.** It can be seen that the actual landed price is lower as compared to approved rate in the Tariff Order and the same is due to decrease in the imported coal price primarily attributed to demand supply position of the global coal market. It is also observed that there is reduction in price of APM Gas to Rs. 10,559.09/SCM as compared to approved rate of Rs.17,139.56/SCM.
- 5.14 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 for Indonesian coal which is set by Ministry of Energy and Mineral Resources (Indonesia). The Commission has sought for prevailing HBA 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 index which is considered by TPC-G for energy charge calculations. It can be observed that the HBA index has witnessed an increasing trend from October 2020 onwards and substantial increase in month of February, 2021 as compared to January, 2021. Also, the Dollar Exchange rate has witnessed a sharp surge from February 2020 and more or less stabilised since last few months.





* - HBA indices at 6,322 kcal/kg GAR coal with 8% total moisture, 15% ash as received and 0.8% sulphur
 \$ - 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)

5.15 The Commission has also sought for coal purchase bills considered for February 2021. The Commission has scrutinised the bills submitted and computed the purchase price of coal for the month of February 2021 as shown in Table below:

Table 7: Computation of Purchase price of Coal by TPC-G for the month of February 2021

Date	Invoice QTY	GCV	HBA	Correction as per FSA	Invoice Rate	Coal Cost	Freight Rate	BF Correction	Freight Payable	Total Coal Cost	
	MT	kcal/kg	\$/MT	\$/MT	\$/MT	\$	\$/MT	\$/MT	\$	\$	\$/MT
A	b	c	D	e	f	g	H	I	J	k	l
09-01-2021	53904	4845	75.84	22.88	52.96	2854756	10.57	1.12	509662	3364418	62.42
18-01-2021	61100	4824	75.84	23	52.84	3228524	10.57	1.02	583505	3812029	62.39
15-02-2021	61300	4851	87.79	27.61	60.18	3689034	10.57	0.44	620969	4310003	70.31
Total	176304	4840	79.99	24.57	55.43	9772314	10.57	0.85	1714136	11486450	65.15

5.16 TPC has submitted the detailed coal computation for the coal purchased in February, 2021 and also the reconciliation of coal cost considered in Form F12 along with each coal invoice. The coal cost is arrived on the basis of Goods Receipt Note (GRN) in the SAP system which is dependent on the rate of coal purchase (in Rs./MT or USD/MT) considered at the time of coal order (PO) booking. However, the coal cost mentioned in the coal invoice is as per the base price of coal purchase (in Rs./MT or USD/MT) arrived on the basis of actual gross calorific value, Moisture content, Ash content, Sulphur content, HBA indices etc. Once the invoice is booked in the SAP system after GRN of full coal quantity of a shipment, the cost as per coal invoice gets booked against each shipment in the SAP system in order to make payment to the supplier. To facilitate this, the difference between coal cost in Goods Receipt Note (GRN) and coal cost in the invoice is booked as adjustment entry in the SAP. Hence, the coal inventory gets valued ultimately at the invoice values and at the coal purchase rate (in Rs./MT or USD/MT) prevailing on the date of billing.

5.17 Further, as the coal purchase during a month is generally not utilised in the same month, hence, there is a variation in above computed coal price vis-à-vis coal price as considered



by TPC-G for energy charge calculations. The cost of coal for energy charge computation pertains to coal consumed during the respective months which is arrived based on the actual cost of coal inventory as well as the purchased coal cost received in the coal yard.

5.18 Apart from above, the Commission has also sought for third party sampling report for GCV verifications. TPC-G has submitted the third-party sampling certificate for the respective period. The Commission has verified the document submitted and found to be in order. TPC-G has also considered the stacking loss as per norms approved by the Commission while computing the Energy Charges.

5.19 From the Table above, the basic purchase cost of imported coal including freight during the month of February, 2021 as per bills submitted worked out at USD 72.08/MT. TPC-D has booked Rs. 4696/MT (i.e. Rs. 3955.38/MT for Coal and Rs. 740.62/MT for freight). Also, other coal handling charges such as insurance, handling and wharfage charges, taxes and duties, clean energy cess and other miscellaneous charges considered by TPC-D are in line with the average prices approved in the previous quarters and accordingly, the total landed cost of coal arrived is Rs. 7023.44/MT. Accordingly, the break-up of the cost as submitted by TPC-D and as considered by the Commission against the procurement of coal for the month of February, 2021 is as given below:

Table 8: Break-up of Coal Cost for the month of February 2021 for TPC-G

Sr. No	Particular	Source / Formula	units	As Submitted – Coal Cost	As Approved – Coal Cost
1	Basic Coal cost + Freight in Rs.	As submitted	Rs./MT	4,696.00	4,696.00
2	Excise + Custom Duty + CE Cess+ Insurance	As submitted	Rs./MT	671.83	671.83
3	Handling and Wharfage	As submitted	Rs./MT	626.25	626.25
4	Other Fuel Handling Charges	As submitted	Rs./MT	1,034.53	1,034.53
5	Other Adjustment	As submitted	Rs./MT	(5.18)	(5.18)
6	Total as per Form 12	Sum(3:7)	Rs./MT	7,023.44	7,023.44

5.20 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:

Table 9: Coal Consumption Cost for the month of February 2021 of TPC-G

Particulars	Units	TPC Submission	As Approved
Form F12 - Coal Consumption Cost	Rs/MT	6,268.15	6,268.15



Particulars	Units	TPC Submission	As Approved
Foreign Exchange Rate Variation	Rs/MT	242.48	242.48
Employee Cost	Rs/MT	59.67	59.67
Form F11 - Coal Consumption Cost	Rs/MT	6,570.30	6,570.30

5.21 In view of the above, the Commission has considered APPC of Rs 3.94/kWh as against approved rate of Rs. 4.51/kWh for power purchased from TPC-G. The APPC is lower mainly due to lower Variable Cost of power purchased from Unit-5, and Unit-7.

5.22 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
February 2021	(35.89)	(17.04)	(52.93)

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

5.23 The Commission in the MYT Order dated 30 March, 2020 in Case No 300 of 2019 in respect of TPC-G has allowed TPC-G to recover the past recoveries approved in the said order from the three Distribution Licensees i.e. BEST, TPC-D and AEML-D in 12 equal instalments in FY 2020-21. As per the ruling given in the TPC-G's MYT Order, the Commission in the Tariff Order of BEST has approved the said past recovery of TPC-G in the Power Purchase Cost of BEST of Rs. 83.78 Crore on an annual basis (Monthly Rs. 6.98 Crore).

5.24 However, vide Order dated 21 December, 2020 in Case No. 163 of 2020, the Commission has directed TPC-G not to recover the component of Standby Charges in the balance instalments amount towards the past recovery from the concerned distribution licensees, viz, BEST, AEML-D and TPC-D. Accordingly, TPC-G has revised the calculation for recovery of past period and calculated the balance amount to be recovered excluding standby component as provided below:

Table 10: Calculation of Past recovery and Carrying cost for balance period (Rs. Crore)

Sr.	Particulars	Number	Amount
1	Impact of Review Order	a	7.03
2	Truing up of FY 2017-18	b	-0.27
3	Truing up of FY 2018-19	c	-42.46
4	Provisional Truing up of FY 2019-20	d	-26.37
5	Recovery of amount of entry tax	e	99.49
6	Difference in Standby Charges as work out by Hon'ble APTEL	f	44.57
7	Total	g = sum (a to f)	81.99



8	Carrying Cost for FY 2020-21	$h = ((g-f) * 9.55\% / 2)$	1.79
9	Grand Total	$i = g + h$	83.78
10	Total past recovery excluding Standby Charges	$j = i - f$	39.20
11	Past recovery already recovered in past 8 instalments (excluding Standby Charges)	$k = j / 12 * 8 \text{ month}$	26.13
12	Balance amount to be recovered excluding standby component	$l = j - k$	13.07
13	Balance amount to be recovered excluding standby component in next 4 months	$m = l / 4$	3.27

5.25 Based on the above calculations, BEST has claimed the revised amount of Rs. 3.27 Crore against Rs. 6.98 Crore as approved in MYT order dated 30 March, 2020 in Case No 300 of 2019 against the TPC-G past recovery claim and the Commission has considered the said amount in FAC computation.

Manikaran Power Limited (Medium Term PPA)

5.26 The Commission in its Order in Case No. 249 of 2018 dated 2 January, 2019, allowed BEST to tie up 100 MW Power with M/s. Manikaran Power Ltd. through M/s. Sai Wardha Power Generation Ltd for 5 years from 1 April, 2019 to 31 March, 2024 and accordingly Medium Term PPA was signed on 24 May 2019.

5.27 The Commission has noted that there was delay in signing of agreement along with subsequent events as stated by BEST in its MYT Order which has led to the power supply not commencing on 1 April, 2019. However, the power supply has started from April 2020 which was envisaged at the time of issue of Tariff Order.

5.28 **As submitted by BEST, it has purchased 66.30 MU at average rate of Rs. 3.89/kWh as against approved rate of Rs. 4.37/kWh. The reduction in rate is due to higher Availability and PLF of the said plant which has resulted in higher quantum above 85% PLF being available at only Variable Charge and Incentive as per terms of the PPA.** The incentive is payable at the rate of 50% of the Fixed Charge for Availability in excess of Normative Availability and shall be payable only to the extent of despatch of the power station above Normative Availability. Accordingly, the Commission has considered the said purchase from Manikaran Power Limited for the month of February 2021 as per invoice submitted by BEST. The details of approved v/s actual are as shown in the table below:

Table 11: Power Procurement from Manikaran Power Limited for the month of February 2021

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)
Approved	62.05	14.54	2.34	12.60	2.03	27.14	4.37



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	66.30	11.42	1.72	14.38	2.17	25.80	3.89

5.29 Variation in power purchase expenses from Manikaran Power Limited (MPL) can be divided on account of change in quantum and per unit rate as follows:

Month	Increase in Expenses for power purchase from MPL (Rs. Crore)		
	On Account of change Quantum of Power Purchase	On Account of change in Per Unit rate of Power Purchase	Total
February 2021	1.65	(2.99)	(1.34)

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

Renewable Sources

5.30 BEST has entered into Long term PPA for 20 MW with M/s Walwahn Solar MH Ltd (earlier Welspun) to meet its Solar RPO. The Commission in the Tariff Order has approved the purchase of solar power from the said PPA at Rs. 8.56/kWh.

5.31 Further, the Commission has also approved purchase of non-solar and solar REC's at Floor Price of Rs.1.00/kWh for approximately 646 MUs towards shortfall in meeting RPO.

5.32 **BEST has purchased 2.77 MU of Solar Power at Rs 8.56/kWh for February 2021 from M/s. Walwahn Solar MH Ltd.** The Commission has verified the said purchase from the invoice submitted by BEST and has accordingly considered the said solar purchase for FAC.

5.33 The Commission notes that BEST has not purchased any solar/non-solar REC in the month of February 2021.

5.34 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
February 2021	0.12	-	0.12

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



computation.

Short Term Purchase

- 5.35 **With regards to short term purchase, BEST has purchased 25.75 MU at average rate of Rs. 3.86/kWh as compared to approved rate of Rs. 4.00/kWh.** The overall power purchased from Power Exchange was about 8.51% of total power procured (i.e. 25.75 MU out of the total power Net purchase of 302.65 MU) during the month of February 2021 mainly to meet the shortfall during day time. Accordingly, the Commission has considered the power purchased from power exchange.
- 5.36 Accordingly, variation in power purchase expenses from Short Term Purchase 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
February 2021	(10.66)	(0.76)	(11.43)

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

Summary

- 5.37 **To summarise, BEST has optimised its overall power purchase cost by taking following actions:**
- (a) **Unit 7 is run at highest PLF among all the thermal/gas generators under Section 62 of the Act**
 - (b) **Entire power purchased from Manikaran Power Ltd to the extent of its Availability having the least Variable Cost in MOD.**

Imbalance Pool

- 5.38 BEST has submitted that it has considered the actual transmission loss of 3.08% for the month of February 2021 and accordingly has computed the quantum of imbalance pool. **Accordingly, it was observed that BEST has injected 1.04 MU to the imbalance pool during the month of February 2021.** BEST has not considered any impact of the said pool quantum in FAC Computation.
- 5.39 The said injection into the pool is result of either decrease in demand of consumers than estimated by the licensee or due to higher generation than scheduled by the generator. In both the scenarios, power incremented in the imbalance pool is not supplied to its consumers.



- 5.40 The present FAC mechanism includes any variation in power purchase cost which includes both Fixed Charges and Variable Charges. The imbalance pool settlement is done considering Variable Charges on monthly basis and Fixed Cost Reconciliation on yearly basis.
- 5.41 Accordingly, considering monthly surplus imbalance pool quantum at provisional variable cost as per FBSM mechanism will increase the overall average power purchase cost which is computed considering both Fixed and Variable Charges, thereby burdening the consumers with FAC. Further, due to historical issues of delay in computing imbalance pool quantum and cost of power, for which appropriate orders are already passed by the Commission, non-consideration of surplus imbalance pool quantum at the time of FAC computation on monthly basis will not have any adverse impact on licensee as it would have anyway paid the entire fixed cost to the generator even if lower quantum of power was supplied. Further, for FAC computation total energy purchased by the licensee is being considered for FAC Computation.
- 5.42 In view of the aforesaid, it would not be prudent to burden the consumers by considering the impact of monthly imbalance pool in FAC computation. Accordingly, to balance overall interest of consumers and licensee, the Commission has not considered the surplus imbalance pool quantum and cost in the monthly FAC computation as it will get adjusted during truing-up of the respective year.

Sale of Power

- 5.43 **BEST has done sale of surplus power to the extent of 0.10 MU during the month at Rs. 3.59/kWh.** As per PPA with TPC, BEST is having allocation of 51.17% from Unit 5 & 7 and Hydro generation and 40% from Unit 8. TPC-G schedule its thermal/hydro plant availability after considering total demand of BEST and TPC-D as a whole and availability from all other contracted sources of both discoms. The surplus power was sold only in some of the 15-min time blocks, when there was surplus power due to higher availability of scheduled Hydro generation over the BEST's demand; particularly in the evening period. TPC Unit 5, which is placed on higher stack in State MOD due to its higher variable charge, was running at its technical minimum level in most of the time blocks due to surplus power situation in the grid.
- 5.44 In the event of surplus power arising out of demand falling below the technical minimum level of contracted generator (i.e. TPC Unit 5) if injected into the grid, it would have fetched at the rate of Least Variable Charge (LVC) of Intra-state generator under State MoD as per Intra-state FBSM settlement. In the month of February 2021, rate of LVC under State MOD stack was Rs. 2.04/kWh. Further, injection of surplus power in the grid would have attracted Unscheduled Interchange (UI) charges depending on grid scenario. **To avoid this and to optimize power purchase cost, the surplus power of 0.10 MU was sold through power exchange (IEX) from which BEST has earned revenue of Rs. 0.04 Crore.** Accordingly, the Commission has considered the actual quantum and revenue against surplus sale.



Approved Cost of Power Purchase

5.45 In view of the above, the overall cost approved in the Tariff Order and actual for the month of February, 2021 considered by the Commission is as shown below:

Table 12: Approved Power Purchase Cost for the month of February 2021

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	299.04	36.66	1.23	98.19	3.28	134.85	4.51
	Actual	207.93	36.66	1.76	45.26	2.18	81.92	3.94
TPC-G - Past Recovery	Approved	-	6.98	-	-	-	6.98	-
	Actual	-	3.27	-	-	-	3.27	-
Manikaran Power*	Approved	62.05	14.54	2.34	12.60	2.03	27.14	4.37
	Actual	66.30	11.42	1.72	14.38	2.17	25.80	3.89
Renewable Power	Approved	2.63	-	-	2.25	8.56	2.25	8.56
	Actual	2.77	-	-	2.37	8.56	2.37	8.56
REC	Approved	-	-	-	5.39	1.00	5.39	1.00
	Actual	-	-	-	-	-	-	-
Short Term Purchase	Approved	53.40	-	-	21.36	4.00	21.36	4.00
	Actual	25.75	-	-	9.93	3.86	9.93	3.86
Sale of Power	Approved	-	-	-	-	-	-	-
	Actual	-0.10	-	-	-0.04	3.59	-0.04	3.59
Imbalance Pool	Approved	-	-	-	-	-	-	-
	Actual	-	-	-	-	-	-	-
Total	Approved	417.11	58.18	1.39	139.78	3.35	197.96	4.75
	Actual	302.65	51.35	1.70	71.90	2.38	123.25	4.07

* - Incentives adjusted in the Variable Cost

5.46 Considering the above submission, the Commission allows the power purchase quantum of 302.65 MU for total cost of Rs. 123.25 Crore at average power purchase cost of Rs. 4.07/kWh for the month of February, 2021 as shown in Table above. The variation in power purchase cost is mainly on account of lower cost of power purchase from TPC-G, decrease in TPC-G past period recovery, Manikaran Power and power purchased in short term from Power Exchange, as already explained in para above. The actual purchase for same month in FY 2019-20 i.e. February 2020 was 301.26 MU and power purchase cost was Rs. 151.61 Crore with APPC of Rs. 5.03/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 February, 2021 as shown in above table. The same has been compared with the average power purchase cost approved by the Commission in Tariff Order dated 30 March, 2020



and accordingly arrived at differential per unit rate at which Z_{FAC} is to be passed on to the consumers.

- 6.2 It is noted that BEST has incurred the per unit Power Purchase cost which is lower than the limits Approved per unit Power Purchase Cost hence the Z_{FAC} worked out by the Commission on account of difference in power purchase cost for the month of February, 2021 is negative as shown in the Table below.

Table 13: Computed Z_{FAC} for the month of February 2021

S. No.	Particulars	Units	February 2021
1	Average power purchase cost approved by the Commission	Rs./kWh	4.75
2	Actual average power purchase cost	Rs./kWh	4.07
3	Change in average power purchase cost (=2 -1)	Rs./kWh	(0.67)
4	Net Power Purchase	MU	302.65
5	Change in fuel and power purchase cost (=3 x 4/10)	Rs. Crore	(20.38)

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

- 7.1 The adjustment for over recovery/under recovery has to be done for the (n-4) month as per provisions of MYT Regulations, 2019. As FAC levied for the month of October 2020 was nil, there would not be any adjustment factor for the month of February 2021 while computing the allowable FAC.

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

- 8.1 As explained in the above paragraph in absence of any adjustment factor for previous month, there is no carrying cost which is to be allowed in FAC for the month of February, 2021.

9. Disallowance due to excess Distribution Loss

- 9.1 Regulation 10.8 of MYT Regulations, 2015 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”

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

Table 14: Distribution Loss for the month of February 2021

S. N	Particulars	Units	Approved in Tariff Order	February 2021 - Actual	Actual upto February 2021
1	Net Energy Input at Distribution Voltage	MU	4,846.23	292.31	3,548.14
2	BEST Retail Sales	MU	4,643.66	302.74	3,365.59
3	Distribution Loss (1 - 2)	MU	202.57	-10.43	182.56
4	Distribution Loss as % of net energy input (3/1)	%	4.18%	-3.57%	5.15%
5	Excess Distribution Loss = [Actual Distribution Loss (4) - Distribution loss approved] x Net Energy Input (1)	MU			34.25
6	Disallowance of FAC due to excess Distribution Loss	Rs. Crore	0	0	0

9.3 As seen from the above table, for the month of February, 2021, the standalone distribution loss is negative 3.57% and cumulative distribution loss of 5.15% till the month of February, 2021. Also, for the month of February 2021, the Commission observes that only 0.78% of the consumption i.e. 2.38 MU is billed on estimated basis.

9.4 The Commission has sought a justification for negative loss of 3.57% for the month of February 2021, even when hardly 1% of the energy billing is undertaken on estimated basis. In response to the same, BEST has provided following reasons:

- i. The Month-wise distribution loss calculation will give erratic figures as sales are staggered and therefore, it is required to take 12 months figures to arrive at actual distribution loss.
- ii. As per the billing procedure of BEST Undertaking, the electricity consumers are covered in 24 billing cycles having different meter reading dates spread throughout the month. As such the sales recorded in a particular billing month is not necessarily of the same month, whereas the meters recording the purchase of energy at T<>D interface are all read on end of every month. Accordingly, for the month of February’2021, the purchase of energy recorded at T<>D interface are for the period from 1st February’2021 to 28th February’2021 i.e. 28 days, whereas the sale recorded for the month of February’2021 consist of consumption of 28 days for the category of HT meters and LT meters of High consumption and 30 days for other LT categories. Due to this different reading pattern of purchase and sales, the stand-



alone calculation of distribution loss for a month gives erratic results. Further, the month of February is seasonal transition period. Hence, to determine the actual distribution loss for a month, sum of purchase units and sum of sales units for a period of 12 months is required to be considered.

- iii. The comparison of Distribution Loss for the April'2020 to February'2021 as compared to last two year is as given below:

Table 15: Trend of Distribution Loss for the month of February in past 3 years

Particulars	Approved Loss	Feb	Cumulative upto Feb
FY 2020-21	4.18%	-3.57%	5.15%
FY 2019-20	5.60%	-2.08%	5.24%
FY 2018-19	5.70%	-3.27%	4.70%

As seen from the above table, the standalone Distribution Loss for the month of February'2021, February'2020 & February'2019 are -3.57%, -2.08% & -3.27% respectively. Further, cumulative Distribution Loss upto February'2021 in FY 2020-21 is 5.15% whereas cumulative Distribution Loss upto February'2020 in FY 2019-20 was 5.24%. Cumulative Distribution Loss for both the year (up to month of February) is nearly uniform.

- 9.5 The Commission has noted the submission of the BEST on the negative distribution loss. Further, the comparison of Distribution Loss for the April to February 2021 as compared to last year is as given below:

Table 16: Monthly Distribution Loss of FY 2019-20 and FY 2020-21

Particulars	Approved Loss	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Cum. upto Feb
FY 2020-21	4.18%	2.79%	13.92%	-24.42%	1.64%	3.37%	1.19%	4.20%	2.62%	4.06%	6.61%	-3.57%	5.15%
FY 2019-20	5.60%	2.25 %	3.77 %	9.26%	6.18%	4.69%	4.06%	5.25%	7.60%	8.92%	6.68%	-2.08%	5.24%

- 9.6 As seen from the above table, cumulative Distribution Loss upto the month of February, 2021 of 5.15% is higher than the approved Distribution Loss. **The Commission has not worked out any disallowance on account of excess Distribution Loss since the standalone FAC for the month of February, 2021 is negative.**

10. Summary of Allowable ZFAC

- 10.1 The summary of the FAC amount as approved by the Commission for the month of February, 2021 is as shown in the Table below.

Table 17: Summary of Allowable Z_{FAC} for February, 2021

S. No.	Particulars	Units	February 2021 - As per BEST	February 2021 – As Approved
1	Calculation of ZFAC			



S. No.	Particulars	Units	February 2021 - As per BEST	February 2021 – As Approved
1.1	Change in cost of generation and power purchase attributable to Sales within the License Area (F)	Rs. Crore	(20.38)	(20.38)
1.2	Carrying cost for over-recovery/under-recovery (C)	Rs. Crore	-	-
1.3	Adjustment factor for over-recovery/under-recovery (B)	Rs. Crore	-	-
1.4	ZFAC = F+C+B	Rs. Crore	(20.38)	(20.38)
2	Calculation of Per Unit FAC			
2.1	Energy Sales within the License Area	MU	302.74	302.74
2.2	Excess Distribution Loss	MU	-	-
2.3	ZFAC per kWh	Rs./kWh	(0.67)	(0.67)
3	Allowable FAC			
3.1	FAC disallowed corresponding to excess Distribution Loss [(2.2 x 2.3)/10]	Rs. Crore	-	-
3.2	FAC allowable [1.4-3.1]	Rs. Crore	(20.38)	(20.38)
4	Utilization of FAC Fund			
4.1	Opening Balance of FAC Fund	Rs. Crore	(233.84)	(233.84)
4.2	Holding Cost on FAC Fund	Rs. Crore	(1.61)	(1.61)
4.3	Z _{FAC} for the month (Sr. N. 3.2)	Rs. Crore	(20.38)	(20.38)
4.4	Closing Balance of FAC Fund	Rs. Crore	(255.84)	(255.84)
4.5	Z _{FAC} leviable/refundable to consumer	Rs. Crore	-	-
5.0	Energy Sales within the License Area	MU	302.74	302.74
6.0	ZFAC per kWh [(4.5/5.0)*10]	Rs./kWh	-	-
7.0	Total FAC based on category wise and slab wise allowed to be recovered in the billing month of April 2021	Rs. Crore	-	-
8.0	Carried forward FAC for recovery during future period (4.5-7.0)	Rs. Crore	-	-

10.2 BEST has considered the holding cost considering the MCLR + 150 basis points. This turns out to be 8.50% for February 2021 and holding cost worked out is Rs. 1.61 Crore which is also approved by the Commission. The holding cost as calculated will be contributed to the FAC fund and is outlined as below:



Table 18: Calculation of Holding Cost for the month of February 2021

Calculation of Carrying Cost											
Month	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21
Op. Balance	-	(17.43)	(41.80)	(59.05)	(72.38)	(89.03)	(112.31)	(149.89)	(172.98)	(203.43)	(227.33)
FAC fund of the Month	(17.43)	(24.37)	(17.25)	(13.33)	(16.65)	(23.28)	(37.58)	(23.09)	(30.45)	(23.90)	(20.38)
Cl. Balance	(17.43)	(41.80)	(59.05)	(72.38)	(89.03)	(112.31)	(149.89)	(172.98)	(203.43)	(227.33)	(247.71)
Interest Rate		8.79%	8.58%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%
Interest for the month		(0.13)	(0.30)	(0.42)	(0.51)	(0.63)	(0.80)	(1.06)	(1.23)	(1.44)	(1.61)
Cumulative Interest		(0.13)	(0.43)	(0.84)	(1.36)	(1.99)	(2.78)	(3.85)	(5.07)	(6.51)	(8.12)
Total	(17.43)	(41.93)	(59.48)	(73.22)	(90.38)	(114.30)	(152.68)	(176.82)	(208.50)	(233.84)	(255.84)

10.3 It can be seen from the above table that standalone FAC for the month of February, 2021 is Rs. (20.38) Crore. As the FAC is negative, the said amount will be accumulated in FAC Fund for stabilisation of FAC rate over the period.

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 ZFAC per kWh for a particular Tariff category/sub-category/consumption slab shall be computed as per the following formula: —

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

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

8.2.15.4 Therefore, using its powers for Removal of Difficulties under Regulations 106 of MYT Regulations, 2019, the Commission is making following changes in FAC mechanism stipulated under Regulation 10 of MYT Regulations, 2019:

a. 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:

- i. Negative FAC amount shall be carried forward to the next FAC billing cycle with holding cost.*
- ii. 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.*
- iii. 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 BEST such limit shall be Rs. 59 Crore. Any accumulated amount above such limit shall be refunded to consumers through FAC mechanism.*
- iv. 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.*

11.3 Accordingly, the Commission allows the FAC amount of Rs. (20.38) Crore for the month of February, 2021 to be accumulated as FAC Fund and shall be carried forward to the next billing cycle with holding cost.

11.4 The Commission in its approval for the month of January, 2021 has directed BEST to carry forward the approved FAC amount of Rs. (233.84) Crore to be accumulated as FAC Fund to be carried forward to the next billing cycle with holding cost. The opening balance of FAC fund along with holding cost is Rs. (235.45) Crore.

11.5 Accordingly, considering the approved standalone FAC amount of Rs. (20.38) Crore for the month of February, 2021 and opening balance FAC Fund of Rs. (235.45)



Crore, the total amount of Rs. (255.84) Crore is accumulated in the FAC Fund.

- 11.6 The Commission in its FAC approval dated 21 September, 2020 for the month of June 2020 has decided to accumulate the FAC fund arising out of negative monthly FAC up to March 2021 along with the holding cost. Accordingly, the Commission allows the BEST to carry forward the accumulated FAC fund of Rs. (255.84) Crore to the next billing cycle with holding cost.**
- 11.7 In view of the above, the per unit Z_{FAC} for the month of February, 2021 to be levied on the consumers of BEST in the billing month of April, 2021 is Nil.**

