

Chapter 7

Determination of Tariff for FY 2020-21

7.1 Aggregate Revenue Requirement for FY 2020-21

The Commission in Table 79 (Chapter 4) of this Tariff Order has determined the net Revenue Requirement for FY 2020-21 as Rs. 31519.45 Crore. The cumulative revenue gap at existing tariff, ARR and the Average Cost of Supply for FY 2020-21 is worked out as follows:

Table 7.1: Aggregate Revenue Requirement for FY 2020-21

		(Rs. Crore)
Sr. No.	Particulars	Allowed by the Commission
I	II	III
1.	Net Revenue Requirement (after excluding NTI of Rs. 1080.72 Crore)	31519.45
2.	Revenue from existing tariff (Table 82 – Chapter 4)	30875.79
3.	Gap: Surplus(+)/Deficit (-) during FY 2020-21	(-)643.66
4.	Gap: Surplus(+)/ Deficit(-) upto FY 2019-20	(+)418.83
5.	Cumulative Gap: Surplus(+)/ Deficit(-) upto FY 2020-21	(-)224.83
6.	ARR for the year required to be recovered through tariff	31100.62
7.	Average Cost of Supply (for Energy Sales of 48207 M kWh)	645.15 (paise /kWh)

The Commission in the Tariff Order for FY 2019-20 had considered the Total Revenue Requirement (which included Non Tariff Income) for computing of ACoS of 662.98 paise/kWh. For FY 2020-21 if the ACoS is computed on the same lines, it works out to be 667.57 paise/kWh $(31100.62+1080.72)/48207$. The Commission has notified the PSERC MYT Regulations, 2019 (made applicable for the 2nd MYT Control Period starting from FY 2020-21), wherein ACoS has been defined as under:

“Average Cost of Supply means ratio of the Aggregate Revenue Requirement of the Distribution Licensee for the year including unrecovered revenue gaps of previous years along with carrying cost to the extent proposed to be recovered through retail tariffs, to the total sales of the Distribution Licensee for the respective year;”

Accordingly, the Commission has excluded the “Non Tariff Income (NTI)” from the ambit of ACoS as well as category wise realisation for working out the cross subsidy levels for FY 2020-21 and the ACoS for FY 2020-21 works out to 645.15 paise/kWh as indicated above. PSPCL in its submission has also projected ACoS and cross subsidy levels for FY 2020-21 after excluding Non Tariff Income.

7.2 **Determination of Tariff**

In determining tariff, the Commission is guided by the principles laid down in Section 61 of the Act as well as its own Regulations, which provide the framework for working out the ARR of the distribution licensee and tariff for different categories of consumers. The Commission has also kept in view the relevant aspects of the National Electricity Policy, Tariff Policy, the norms adopted by it in earlier Tariff Orders and inputs received from various stakeholders in their objections/suggestions and during the course of public hearings.

7.2.1 As worked out in the Table 7.1 above, the current tariff does not cover the entire revenue requirement of PSPCL for FY 2020-21. The cumulative revenue gap at existing tariff upto FY 2020-21 comes to Rs. 224.83 Crore, which is required to be recovered in the remaining period of 10 months of FY 2020-21.

7.2.2 The Commission is conscious of the fact that people in general have been hit hard, with loss of livelihoods for many, due to Covid-19 outbreak and lockdown in the State. Therefore, the Commission decides to rationalize the tariff and give relief to domestic category consumers.

Accordingly, the Commission has determined the Tariff for FY 2020-21 as follows:

Table 7.2: Existing Tariff and the new Tariff for FY 2020-21

(Rs.)

Sr. No.	Category			Existing Tariff as per T.O. for FY 2019-20 continued from 01.04.2020 to 31.05.2020		New Tariff w.e.f. 01.06.2020 to 31.03.2021	
				*Fixed Charges per Month	**Energy Charges	*Fixed Charges per Month	**Energy Charges
I	II			III	IV	V	VI
A	PERMANENT SUPPLY						
1.	Domestic Supply	Upto 2 kW	0- 100 kWh	35/kW	4.99/kWh	35/kW	4.49/kWh
			101 - 300 kWh		6.59/kWh		6.34/kWh
			Above 300 kWh		7.20/kWh		7.30/kWh
		Above 2 kW & upto 7 kW	0- 100 kWh	45/kW	4.99/kWh	60/kW	4.49/kWh
			101 - 300 kWh		6.59/kWh		6.34/kWh
			301 - 500 kWh		7.20/kWh		7.30/kWh
			Above 500 kWh		7.41/kWh		
		Above 7 kW & upto 50 kW	0- 100 kWh	50/kW	4.99/kWh	75/kW	4.49/kWh
			101 - 300 kWh		6.59/kWh		6.34/kWh
			301 - 500 kWh		7.20/kWh		7.30/kWh
			Above 500 kWh		7.41/kWh		
Above 50 kW/kVA & upto 100 kVA	All Units	80/kVA	6.31/kVAh	100/kVA	6.33/kVAh		
Above 100 kVA	All Units	80/kVA	6.52/kVAh	110/kVA	6.53/kVAh		
Sri Harmandir Sahib & Sri Durgiana Mandir	First 2000 kWh	-	Free	NA	Free		
	Above 2000 kWh	-	6.06/kWh		6.11/kWh		
2.	Non-Residential Supply	Upto 7 kW	0- 100 kWh	45/kW	6.91/kWh	45/kW	6.91/kWh
			101 - 500 kWh		7.17/kWh		7.17/kWh
			Above 500 kWh		7.29/kWh		7.29/kWh
		Above 7 kW & upto 20 kW	Up to 100 kWh	55/kW	6.91/kWh	70/kW	6.91/kWh
			101 - 500 kWh		7.17/kWh		7.17/kWh
			Above 500 kWh		7.29/kWh		7.29/kWh
		Above 20 kW/ kVA & upto 100 kVA	All Units	100/kVA	6.32/kVAh	100/kVA	6.35/kVAh
		Above 100 kVA	All Units	110/kVA	6.54/kVAh	110/kVA	6.55/kVAh
Electric Vehicle Charging Stations	All Units	NA	6.00/kVAh	NA	6.00/kVAh		
3.	Industrial Power Supply						
a.	Small Power	Upto 20 kVA	All Units	80/kVA	5.37/kVAh	80/kVA	5.37/kVAh
b.	Medium Supply	Above 20 kVA & upto 100 kVA	All Units	120/kVA	5.80/kVAh	120/kVA	5.80/kVAh
c.	Large Supply						
	General Industry	Above 100 kVA & upto 1000 kVA	All Units	165/kVA	5.89/kVAh	165/kVA	5.98/kVAh
		Above 1000 kVA & upto 2500 kVA	All Units	225/kVA	5.93/kVAh	225/kVA	6.08/kVAh
		Above 2500 kVA	All Units	260/kVA	5.98/kVAh	260/kVA	6.19/kVAh
	PIU Industry	Above 100 kVA & upto 1000 kVA	All Units	170/kVA	5.93/kVAh	170/kVA	6.02/kVAh
		Above 1000 kVA & upto 2500 kVA	All Units	260/kVA	6.18/kVAh	260/kVA	6.33/kVAh
		Above 2500 kVA	All Units	295/kVA	6.19/kVAh	295/kVA	6.41/kVAh
d	For use of electricity exclusively during night hours applicable for industrial consumers (Large Supply/Medium Supply/Small Power)		10 PM to 06 AM (next day)	50% of Fixed Charges specified under relevant category	4.45/kVAh	50% of Fixed Charges specified under relevant category	4.83/kVAh
			06 AM to 10 AM		Normal Energy charges (from 01.10.2019 onwards)		Normal Energy charges (throughout the year)
4.	Bulk Supply	LT	All Units	180/kVA	6.46/kVAh	195/kVA	6.46/kVAh
		HT	All Units	225/kVA	6.05/kVAh	270/kVA	6.05/kVAh

Sr. No.	Category		Existing Tariff as per T.O. for FY 2019-20 continued from 01.04.2020 to 31.05.2020		New Tariff w.e.f. 01.06.2020 to 31.03.2021			
			*Fixed Charges per Month	**Energy Charges	*Fixed Charges per Month	**Energy Charges		
I	II		III	IV	V	VI		
5.	Railway Traction	All Units	230/kVA	6.87/kVAh	300/kVA	6.87/kVAh		
6.	Public Lighting	All Units	100/kW	7.43/kWh	100/kW	7.43/kWh		
7.	Agricultural Pumpset (AP)	All Units	5.28/kWh or 390/BHP/ month		5.57/kWh or 412/BHP/ month			
8.	AP High Technology/ High Density Farming	All Units	NA	5.28/kWh	NA	5.57/kWh		
9.	Compost/ Solid Waste Management Plants and Rural Water Supply Schemes	All Units	33/kVA	4.87/kVAh	40/kVA	5.12/kVAh		
10.	Charitable Hospitals set-up under PwD Act	All Units	33/kVA	4.87/kVAh	40/kVA	5.12/kVAh		
11.	Start up Power for Generators and CPPs	All Units	NA	7.03/kVAh	NA	7.12/kVAh		
B	SEASONAL INDUSTRY (as per Condition 18 of General Conditions of Tariff):							
a)	During Season							
	Small Power	All Units	160/kVA	Same as applicable to corresponding General Industry	160/kVA	Same as applicable to corresponding General Industry		
	Medium Supply	All Units	240/kVA		240/kVA			
	Large Supply	All Units	101-1000 kVA		330/kVA		330/kVA	
			1001-2500 kVA		450/kVA		450/kVA	
			> 2500 kVA		520/kVA		520/kVA	
b)	During Off Season (SP/MS/LS)		All Units	Nil	Nil			
C	ICE FACTORIES & CANDIES AND COLD STORAGES							
a)	During April to July							
	Small Power	All Units	160 / kVA	Same as applicable to corresponding General Industry	160 / kVA	Same as applicable to corresponding General Industry		
	Medium Supply	All Units	240/kVA		240/kVA			
	Large Supply	All Units	330/kVA		330/kVA			
b)	During August to March							
	Small Power	All Units	40/kVA		40/kVA			
	Medium Supply	All Units	60/kVA	60/kVA				
	Large Supply	All Units	83/kVA	83/kVA				
D	TEMPORARY SUPPLY (All Categories)		All Units	1.25 times the charges (highest slab in case of slab rates) specified under the relevant schedule for permanent supply corresponding to the sanctioned load /contract demand	1.25 times the charges (highest slab in case of slab rates) specified under the relevant schedule for permanent supply corresponding to the sanctioned load /contract demand			

*Fixed Charge (unless otherwise specified in Schedule of Tariff) shall be levied on 80% of the sanctioned load or contract demand (actual demand recorded, if higher) as may be applicable.

**In addition to energy charges; FCA, Voltage Surcharge/Rebate and ToD Tariff shall be applicable in accordance with conditions 8, 13 and 15 respectively of General Conditions of Tariff (Annexure-I of the Tariff Order)

Notes:

- (i) The Schedules of Tariff with tariff rates and other details for various categories of consumers as approved by the Commission are as per **Annexure II** of this Tariff Order. These Schedules shall be read with the updated provisions of General Conditions of Tariff approved by the Commission as per **Annexure I** of this Tariff Order;
- (ii) Free power/subsidized tariff shall be applicable to various categories of consumers as per GoP Memo No. 2/12/2018-PE2/926 dated 27.05.2020 (**Annexure-VIII** of this Tariff Order).
- (iii) Cooperative Group Housing Societies/ Employers availing single point supply under PSERC (Single Point Supply to Co-operative Group Housing Societies/Employers) Regulations will be levied fixed charges as applicable to Domestic Supply consumers with load exceeding 100 kVA. A rebate of 12% (Twelve percent) will be admissible on electricity charges, comprising of fixed and energy charges, in addition to any other rebate as may be applicable.
- (iv) A Franchisee appointed by licensee for a particular area in its area of supply as per 7th proviso to Section 14 of the Electricity Act read with Regulations 6.6.2 of the Supply Code 2014, shall be eligible for rebate on electricity charges as per the franchisee agreement between the parties read with Orders of the Commission, if any.

7.3 Cross Subsidy

7.3.1 Regulation 49.1 of the PSERC MYT Tariff Regulations, 2019, specifies that, Cross-subsidy for a consumer category means the difference between the average realization per unit from that category and the average cost of supply per unit expressed in percentage terms as a proportion of the average cost of supply.

To work out the average realization per unit for a category, category-wise revenue has been assessed as per the applicable tariff rates. Impact of Surcharges/Rebates (Voltage surcharge/ rebate, ToD Tariff, reduced energy charges for consumption exceeding the thresh-hold limit and other charges) have been also considered. Accordingly, the cross-subsidy levels for different categories of consumers worked out for FY 2020-21 as per tariff rates depicted in Table 7.2, is as follows:

Table 7.3: Cross Subsidy Levels for FY 2020-21
(Average Cost of Supply= 645.15 Paise/kWh)

Sr. No.	Category of Consumers	Sales	Revenue		Surcharge / Rebates	Total Realization	Realization per kWh	Cross Subsidy levels
			Fixed Charges	Variable Charges				
		MkWh	(Rs. Crore)	(Rs. Crore)	(Rs. Crore)	(Rs. Crore)	Paise/ kWh	%age
I	II	III	IV	V	VII	VII	VIII	IX
1.	Domestic Supply	15,423	739.41	8608.36	-3.10	9,344.67	605.89	-6.09%
2.	Non-Residential Supply	3,026	323.93	2143.98	-18.48	2,449.43	809.46	25.47%
3.	Small Power	844	91.04	492.53	0.00	583.57	691.43	7.17%
4.	Medium Supply	1,903	241.37	1199.98	-35.52	1,405.82	738.74	14.51%
5.	Large Supply	13,192	1181.14	8462.23	-179.58	9,463.79	717.39	11.20%
7.	Public Lighting	134	4.97	99.25	0.00	104.22	777.76	20.55%
8.	Bulk Supply	636	63.85	431.25	-3.31	491.79	773.25	19.86%
9.	Railway Traction	55	2.95	38.73	-1.66	40.03	727.82	12.80%
10.	Agriculture Pumpsets	12,334	0.00	6810.50	0.00	6,810.50	552.17	-14.41%
11.	AP High technology/ High Density farming	0.89	0.00	0.49	0.00	0.49	552.17	-14.41%
12.	Compost/RWW	0.38	0.02	0.21	0.00	0.23	609.05	-5.60%
13.	Charitable Hospitals set-up under PwD Act	0	0.04	0.00	0.00	0.04		
14.	Start-up Power for generators/ CPPs	153	0.00	108.99	0.00	108.99	712.35	
15.	Temporary Supply	199	0.00	160.17	0.00	160.17	804.86	
16.	Common Pool	307	0.00	136.88	0.00	136.88	445.86	
17.	TOTAL	48207	2648.72	28693.55	-241.65	31100.62	645.15	0.00%

The Commission has been consistently maintaining cross subsidy levels of various categories of consumers within $\pm 20\%$ of Average Cost of Supply as guided by the Tariff Policy and provisions of the PSERC Regulations. However, FY 2020-21 is an exceptional year, the Commission observes that the cross subsidy levels have got disturbed due to following reasons:

- Firstly, there is a change in consumption of different consumer categories because of the COVID 19 pandemic.
- Secondly, consumption of NRS and MS industrial consumers is not commensurate with the change in their loads i.e. despite having an increase in load by 7.95% and 3.78% respectively, projected sale for NRS and MS industrial consumers are down by 24.13% and 26.74% with reference to the trued up figures for FY 2018-19.
- Thirdly, as stated earlier in para 7.1 of this chapter, there is a change in the methodology of working out the Average Cost of Supply as well as category wise Realization from Tariff due to change in the PSERC MYT Regulations applicable for the 2nd MYT Control Period starting from FY 2020-21.

7.3.2 Further, the Hon'ble APTEL vide its judgment dated 17.12.2014 in Appeal No. 142 of 2013 and 168 of 2013 has directed the Commission to show the cross-subsidy for each category of consumer with respect to voltage wise Cost of Supply (CoS) in the Tariff Orders. In compliance to the same, the cross-subsidy level for each category of consumer with respect to voltage wise cost of supply is shown in **Annexure-IV** of this Tariff Order.

Since, PSPCL is an integrated utility carrying out the businesses of the Generating company as well as distribution licensee, segregation of its accounts on actual basis is required for the Generation and Distribution businesses, Retail and Supply businesses and finally on voltage wise to enable determination of voltage-wise CoS. So far, PSPCL is not able to submit the segregated accounts on actual basis even for its Generation and Distribution businesses and is submitting the same on the basis of allocation only. Thus, voltage-wise/category-wise CoS worked out on the basis of estimated/allocated data supplied by PSPCL may not be depicting the actual cost of supply.

However, in order to move in the direction of tariff based on CoS, the Commission has been allowing indicative rebates in the Tariff to the various categories of consumers getting supply at higher voltages as mentioned in Condition 13.2 of General Conditions of Tariff.

7.4 Decision of Government of Punjab on subsidy payable for FY 2020-21

PSPCL vide its memo No.516/ARR/Dy.CAO/237/Vol-2 dated 21.05.2020 has claimed subsidy of Rs. 10150.81 Crore for FY 2020-21. GoP vide its memo No.1/2/2020-EB(PR)/293 dated 27.05.2020 (Annexure-VIII) has conveyed its decision regarding the payment of subsidy.

The Commission estimates subsidy payable by the GoP during FY 2020-21 as under:

Table 7.4: Subsidy estimated for different Categories for FY- 2020-21

		(Rs. Crore)
Sr. No.	Consumer Category	Estimated by the Commission
1.	AP Consumers	6810.51
2.	Surcharge on AP Consumption as per PSERC Order dated 24.12.2019 in Petition No.25/2019	370.03
3.	Scheduled Caste (SC) / Domestic Supply (DS) free power Consumers	1263.37
4.	Non-SC/BPL DS Consumers	75.58
5.	Backward class DS Consumer free power	173.10
6.	Small Power (concessional tariff @ Rs.499 paise per unit) Consumers	162.41
7.	Freedom fighter Consumers	0.83
8.	Medium Supply Consumers	165.51
9.	LS Supply Consumers	1599.87
10.	Total	10621.21

There is a shortfall of Rs. 5779.05 Crore of subsidy paid by GoP by 31st March, 2020. Total subsidy payable by GoP for FY 2020-21 works out to Rs. 16400.26 (10621.21+5779.05) Crore.

The Commission passed an order on 18.3.2020 to continue with the existing tariff till issue of the Tariff Order for FY 2020-21. For the month of April and May 2020, the subsidy to be paid is Rs. 1268.57 Crore per month. The balance amount of subsidy of Rs 13863.12 (16400.26 -2537.14) Crore is required to be paid in advance in 10 monthly instalments of Rs.1386.31 Crore from June, 2020 to February, 2021 and Rs.1386.33 Crore in March, 2021.

7.5 Pooled Cost of Purchase of Electricity of PSPCL

The Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 provide for determination of 'Pooled Cost of Purchase' of electricity, for the purpose of eligibility for a generating company engaged in

generation of electricity from renewable sources of energy to apply for registration for issuance of and dealing in renewable energy certificates. The ibid CERC Regulations, under Regulation-5 for 'Eligibility and Registration for Certificates', define the 'Pooled Cost of Purchase' as hereunder:

'Pooled Cost of Purchase' means the weighted average pooled price at which the distribution licensee has purchased the electricity including cost of self generation, if any, in the previous year from all the energy suppliers long-term and short-term, but excluding those based on renewable energy sources, as the case may be.'

The 'Pooled Cost of Purchase' (APPC) for PSPCL determined by the Commission based on the data for FY 2019-20, is as follows:

Table 7.5: Pooled Cost of Purchase

Sr. No	Particulars	Generation (MkWh)	Cost (Rs. Crore)
I	II	III	IV
1.	Own Generation		
a	Thermal	3369.00	2163.20
b	Hydel	9270.00	956.38
c	Less: UBDC, Micro Hydel and MHP-II (being RE Power)	515.87	81.02
d	Net Generation from Hydel other than RE (b-c)	8754.13	875.36
2.	Net own generation within State other than RE (a+d)	12123.13	3038.56
3.	Net Power Purchase	44630.00	20924.00
4.	RE Power Purchase	2873.77	1670.56
5.	Net Power Purchase from sources other than RE (3-4)	41756.23	19253.44
6.	Total Power Purchase (2+5)	53879.36	22292.01
7.	Transmission & SLDC charges		1335.60
8.	Total Generation + Transmission & SLDC Charges		23627.61
9.	Energy at the distribution licensee's boundary (with 2.50% transmission loss)	52532.38	
10.	Pooled Power Purchase Cost (8/9)		4.50 (Rs./kWh)

Accordingly, the Commission determines the 'Pooled Cost of Purchase' applicable, for FY 2020-21 as Rs. 4.50 per kWh.

7.6 Separate Tariff for each Function

A summary of the ARR of Thermal Generating Stations, Hydel Generating Stations and Distribution Business of PSPCL approved by the Commission for FY 2020-21 has been shown in Table 79 in Chapter 4 of this Tariff Order. Further, the cumulative revenue gap required to be covered is shown in Table 7.1 of this Tariff Order. Accordingly, Aggregate Revenue Requirement (ARR)/ Annual Fixed Charges (AFC) of PSPCL's Generating Stations, Wires Business and Retail Supply Business required to be recovered through tariff has been compiled as under:

Table 7.6: ARR/AFC of PSPCL's Generating Stations (Project wise), Wires Business and Retail Supply Business for FY 2020-21

(Rs. Crore)

Sr. No.	Particulars	GGSSSTP	GHTP	Shanan	UBDC	RSD	MHP	ASHP	Micro	BBMB	Total Generation	Wires Business	Retail Supply Business	Total Distribution	Total PSPCL
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
1.	Net Revenue Requirement (Ref Table 79 – Ch 4)	1369.21	1597.38	37.29	59.24	365.08	104.80	45.44	0.76	387.14	3966.34	3658.23	23894.88	27553.11	31519.45
2.	Previous Gap/(Surplus)	-18.19	-21.23	-0.50	-0.79	-4.85	-1.39	-0.60	-0.01	-5.14	-52.70	-48.62	-317.51	-366.13	-418.83
3.	Aggregate Revenue Requirement	1351.02	1576.15	36.79	58.45	360.23	103.41	44.84	0.75	382.00	3913.64	3609.61	23577.37	27186.98	31100.62
4.	Fuel Cost	814.58	1038.08								1852.7				1852.66
5.	Variable cost of Power Purchase												12602	12602	12602
6.	ARR/AFC (3-4-5)	536.44	538.07	36.79	58.45	360.23	103.41	44.84	0.75	382.00	2060.98	3609.61	10975.37	14584.98	16645.96

7.7 Generation Tariff

Regulation 14 of PSERC MYT Tariff Regulations, 2019, specifies that, the tariff for sale of electricity from a generating plant shall comprise of two parts, namely;

7.7.1 Annual Fixed Charges (Capacity Charges)

Regulation 37 of PSERC MYT Tariff Regulations, 2019, specifies that, the fixed cost of a generating station shall be computed on annual basis, based on norms specified under these regulations, and recovered on monthly basis under capacity charge (inclusive of incentive and energy charge for Hydro station), which shall be payable by the beneficiaries in proportion to their respective share/allocation in the saleable capacity of the generating station. Accordingly, based on the project wise ARR/AFC determined for FY 2020-21 as shown in Table 7.6, the Annual Fixed Charges (Capacity Charges) for PSPCL's Generating Stations are determined as under:

Table 7.7: Annual Fixed Charges (AFC) of Generation Projects for FY 2020-21

Sr. No.	Plant	Annual Fixed/Capacity Charges (Rs. Crore)	Generation (MkWh)		Indicative FC (paise/kWh)	
I	II	III	IV		V	
A	Thermal Plants	1074.51				
1.	GGSSSTP	536.44	*5546.60	**2150	*96.72	**249.51
2.	GHTP	538.07	*5904.99	**2705	*91.12	**198.92
B	Hydel Plants	302.24 (50% of AFC) (Rs. Crore)				
1.	Shanan	18.40	470		39.15	
2.	UBDC	29.22	364		80.27	
3.	RSD	180.12	1500		120.08	
4.	Mukerian	51.71	1165		44.39	
5.	Anandpur Sahib	22.42	685		32.73	
6.	Micro Hydel	0.37	15		24.67	
7.	BBMB		***			

* Worked out by taking Normative Annual Plant Availability Factor (NAPAF) of 85%.

** Worked out as per estimated schedule.

*** AFC is determined by CERC.

Accordingly, the total AFC (50% for Hydro Plants) recoverable in the case of thermal and hydro plants are:

- i) Thermal - Rs. 1074.51 Crore
- ii) Hydro (excluding BBMB) - Rs. 302.24 Crore

Full AFC for both thermal and hydro plants will be payable on achievement of normative plant availability as specified in PSERC MYT Tariff Regulations, 2019.

7.7.2 Energy Charges

Regulation 38.1 of PSERC MYT Tariff Regulations, 2019, specifies that, the Energy (Variable) Charges for a thermal generating plant shall cover the primary fuel cost, secondary fuel cost, cost of limestone or any other reagent, as applicable and, shall be payable by every beneficiary for the total energy scheduled to be supplied to such beneficiary during the calendar month on ex-power plant basis, at the energy charge rate of the month (with fuel price adjustment). Accordingly, based on the project wise Fuel Cost/AFC for FY 2020-21 as shown in Table 7.6, the Energy Charges for PSPCL's Generating Stations are determined as follows:

Table 7.8: Energy Charges for Thermal Generating Station FY 2020-21

Sr. No.	Plant	Fuel Cost (Rs. Crore)	Generation (MkWh)	Energy Charges (paise/kWh)
I	II	III	IV	V
1.	GGSSSTP	814.58	2150	378.87
2.	GHTP	1038.08	2705	383.76

Table 7.9: Energy Charges for Hydro Generating Station FY 2020-21

Sr. No.	Plant	Variable Cost (50% of AFC) (Rs. Crore)	Generation (MkWh)	Energy Charges (paise/kWh)
I	II	III	IV	V
1.	Shanan	18.40	470	39.15
2.	UBDC	29.22	364	80.27
3.	RSD	180.12	1500	120.08
4.	Mukerian	51.71	1165	44.39
5.	Anandpur Sahib	22.42	685	32.73
6.	Micro Hydel	0.37	15	24.67

7.7.3 Total charges for Generating Stations (Thermal and Hydel)

The total charges (Capacity and Energy) for generating plants are summarized as under:

Table 7.10: Total charges for PSPCL's Generating Stations for FY 2020-21

(Paise/kWh)				
Sr. No.	Plant	Capacity Charges	Energy Charges	Total Charges
I	II	III	IV	V = (III+IV)
A	Thermal Generating Stations			
a)	For generation as per NAPAF			
1.	GGSTP	96.72	378.87	475.59
2.	GHTP	91.12	383.76	474.88
b)	For generation as per scheduled energy			
1.	GGSTP	249.51	378.87	628.38
2.	GHTP	198.92	383.76	582.68
B	Hydel Plants			
1.	Shanan	39.15	39.15	78.30
2.	UBDC	80.27	80.27	160.54
3.	RSD	120.08	120.08	240.16
4.	Mukerian	44.39	44.39	88.78
5.	Anandpur Sahib	32.73	32.73	65.46
6.	Micro Hydel	24.67	24.67	49.34

* The Charges for BBMB work out to be Rs. 0.93 per unit (Rs. 382.00 Cr. for 4126.06 MUs)

7.8 Wheeling Charges for using distribution network of PSPCL

The Commission has worked out the total distribution capacity of PSPCL for FY 2020-21 as 13323.58 MW (net of transformation losses and auxiliary consumption).

Accordingly, wheeling charges for FY 2019-20 are determined as under:

Table 7.11: Wheeling Charges for FY 2020-21

Sr. No.	Details	Units	Wheeling Charges
I	II	III	IV
1.	Input Energy at the distribution periphery (as per Table 11 in Chapter 4 of the Tariff Order)	MkWh	53966
2.	Distribution capacity of PSPCL (Net)	MW	13323.58
3.	Revenue requirement for wire business of distribution network (Table 7.6)	Rs. Crore	3609.61
4.	Wheeling charges for using distribution network of PSPCL	Rs./MWh	668.87
		Rs. /MW /month	225766

7.9 Open Access (OA) Charges

OA Charges for the month of April 2020 and May 2020 shall remain as per Tariff Order for FY 2019-20 as ordered by the Commission in the Interim Order dated 18.03.2020. For the period of 01.06.2020 onwards of FY 2020-21, Open Access charges are determined as under:

7.9.1 Wheeling Charges

Regulation 25 of PSERC (Terms and Conditions for Intra-state Open Access) Regulations, 2011 provides that, Wheeling Charges shall be payable by an Open Access customer who utilises the distribution network for wheeling of electricity. Accordingly, wheeling charges for use of distribution network of PSPCL are determined as under:

- a) **For Long Term/Medium Term Open Access Customers** = **Rs.225766/MW/Month**
- b) **For Short Term Open Access Customers** = **Rs. 668.87/MWh**

However, in case of wheeling of power generated from NRSE project for consumption within the State, transmission and wheeling charges shall be levied @ 2% of the energy injected into the State Grid, irrespective of the distance i.e. additional 2% of the total energy shall be injected at injection point(s). 10% of the average revenue realized by distribution licensee from such additional injection shall be passed on to the STU/Transmission licensee for compensating it on account of transmission charges. In case of wheeling of power generated from NRSE project outside the state, full transmission and wheeling charges shall be leviable.

Provided that in case of wheeling of power for consumption within the State, generated from NRSE project in the State, achieving commercial operation (COD) from 09.07.2015 to 31.03.2017, no transmission and wheeling charges shall be leviable, irrespective of the distance, for a period of 10 (ten) years from its date of commercial operation (COD).

7.9.2 Transmission & Distribution losses

As per Regulation 30(2) of PSERC (Terms and Conditions for Intra-state Open Access) Regulations, 2011, the Open Access customers shall bear Transmission & Distribution losses as under:

- (i) OA customers at 132/220/400 kV 2.48%
- (ii) OA customers at 66/33 kV 15% of distribution losses (11.24%), which works out to 1.69%, in addition to Transmission Loss of 2.48%.
- (iii) OA customers at 11 kV 40% of distribution losses (11.24%), which works out to 4.50%, in addition to Transmission Loss of 2.48%.

7.9.3 Cross subsidy surcharge

As per Regulation 26(2) of PSERC (Terms and Conditions for Intra-state Open Access) Regulations, 2011, the cross-subsidy surcharge for various categories of consumers are determined as under:

Large Supply		72	paise/kWh
Domestic Supply	:	0	paise/kWh
Non-Residential supply	:	129	paise/kWh
Bulk Supply	:	128	paise/kWh
Railway Traction	:	83	paise/kWh

8 Date of Effect

The Commission decides to make the new tariff/Charges applicable from June 01, 2020 except where specified otherwise in this Order. The tariff determined above shall remain operative till March 31, 2021. For the month of April 2020 and May 2020, tariff/charges shall be applicable as per Tariff Order for FY 2019-20 as specified by the Commission in the Interim Order dated 18.03.2020.

This Order is signed and issued by the Punjab State Electricity Regulatory Commission on this day, the 1st of June, 2020.

Date: June 01, 2020

Place: CHANDIGARH

Sd/-
(Anjuli Chandra)
MEMBER

Sd/-
(S.S. Sarna)
MEMBER

Sd/-
(Kusumjit Sidhu)
CHAIRPERSON

Certified

Sd/-
Secretary
Punjab State Electricity Regulatory Commission,
Chandigarh.