CHHATTISGARH STATE ELECTRICITY REGULATORY COMMISSION

RAIPUR

Bhilai Steel Plant Town Electrical Engineering Department.... Suo motu P. No.08 /2023 (T)

(BSP-TEED)

Present:	**Hemant Verma, Chairman** **Vinod Deshmukh, Member (Judicial)** **Pramod Kumar Gupta, Member**
Appearance:	Dinesh Kumar (GM) for BSP-TEED

In the matter of –

1. Truing up of Aggregate Revenue Requirement (ARR) of FY 2020-21 to FY 2021-22;
2. Determination of Revised ARR for FY 2023-24;
3. Determination of Retail Tariff for FY 2023-24.

ORDER

(Passed on 14/09/2023)

1. As per provisions of the Electricity Act, 2003 (hereinafter referred as 'the Act') and the Tariff Policy, the Commission has notified the Chhattisgarh State Electricity Regulatory Commission (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021 (hereinafter referred as 'CSERC MYT Regulations, 2021') for determination of Aggregate Revenue Requirement (ARR) and tariff for the Generating Company, Licensees, and CSLDC for the control period from FY 2022-23 to FY 2024-25.

2. In compliance to Regulation 10.2 of CSERC MYT Regulations, 2021, BSP-TEED has to file a petition for true up of FY 2020-21 and FY 2021-22, revised ARR and retail tariff for FY 2023-24 by 30/11/2022 but BSP-TEED has not filed the same. Therefore, in compliance to Hon'ble APTEL order dated 01/11/2011, the Commission has initiated suo-moto proceeding for truing up of ARR of FY 2020-21 and FY 2021-22, revised ARR and retail tariff for FY 2023-24 by registering a petition bearing no. 08 of 2023. This Order is passed in respect of suo-motu petition.

3. BSP –TEED vide letter dated August 14, 2023, requested the Commission to allow to file petition for truing up of ARR of FY 2020-21 & FY 2021-22 along with tariff petition for retail tariff for FY 2024-25. The Commission has accepted the request, accordingly, not carried out truing-up of FY 2020-21 and FY 2021-22 in this order. The Commission has determined the revised ARR for FY 2023-24 and Retail Tariff for FY 2023-24 for BSP TEED in accordance with the provisions of the CSERC MYT Regulations, 2021. The Commission, before passing the Order on the above Petition, has considered the data available with the Commission.

4. The Petition was made available on the Commission's website. A Public Notice was also published in the newspapers to invite objections/suggestions as per the procedure laid down in the Regulations. No objection/suggestion was received. The Commission conducted Public Hearing on the Petition on 06/09/2023. No objection/suggestion was received during hearing also.

5. For FY 2023-24, the Commission had approved ARR of Rs. 10080.38 lakhs in MYT order dated 23/08/2022 passed in petition no. 12/2022. The Commission, after

prudence check and due scrutiny, has approved the revised ARR of Rs. 9897.47 lakhs for FY 2023-24 in this order.

6. BSP-TEED vide letter dated 14/08/2023, has also requested the Commission to continue the retail tariff of FY 2022-23 in FY 2023-24 and undertook to pump up the revenue gap, so created, by other sources. The Commission accepts the request and allows BSP-TEED to bill its consumers at a tariff fixed for FY 2022-23 in FY 2023-24. Any revenue deficit created due to non-revision of the tariff shall be met by BSP-TEED. In case of revenue surplus, the surplus shall be passed on to the consumers of BSP-TEED in accordance with the applicable Regulations.

7. This order will be applicable from 01/09/2023 and will remain in force till March 31, 2024 or till the issue of the next Tariff Order, whichever is later. Retail tariff is given in tariff schedule chapter of this order.

8. The Commission directs BSP-TEED to take appropriate steps to implement the Tariff Order.

Sd/-	Sd/-	Sd/-
(PRAMOD KUMAR GUPTA)	**(VINOD DESHMUKH)**	**(HEMANT VERMA)**
MEMBER	**MEMBER (JUDICIAL)**	**CHAIRMAN**

LIST OF ABBREVIATIONS

Abbreviation	Description
ABR	Average Billing Rate
ACoS	Average Cost of Supply
ARR	Aggregate Revenue Requirement
BSP	Bhilai Steel Plant
BSP-TEED	Bhilai Steel Plant-Town Electrical Engineering Department
CSERC	Chhattisgarh State Electricity Regulatory Commission
CSLDC	Chhattisgarh State Load Despatch Centre
CSPDCL	Chhattisgarh State Power Distribution Company Limited
EA or Act	Electricity Act, 2003
FY	Financial Year
GoI	Government of India
HPO	Hydro Purchase Obligation
HT	High Tension
HUDCO	Housing and Urban Development Corporation Limited
HV	High Voltage
IoWC	Interest on Working Capital
kV	kilo Volt
kVA	kilo Volt-Ampere
kW	kilo Watt
kWh	kilo Watt-hour
LV	Low Voltage
MU	Million Units
MYT	Multi Year Tariff
NEP	National Electricity Policy
NSPCL	NTPC-SAIL Power Company Limited
NTI	Non-Tariff Income
O&M	Operation and Maintenance
R&M	Repair and Maintenance
RE	Renewable Energy
REC	Renewable Energy Certificate

Abbreviation	**Description**
RoE	Return on Equity
RPO	Renewable Purchase Obligation
Rs.	Rupees
SAIL	Steel Authority of India Ltd.

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1 BACKGROUND AND BRIEF HISTORY

1.1 Background

Bhilai Steel Plant (BSP), a Unit of the Steel Authority of India (SAIL) is a Government of India Enterprise under Section 617 of the Companies Act, 1956. The Town Electrical Engineering Department of BSP (herein after referred as "BSP-TEED") is a division of BSP, responsible for electricity distribution and related services in the township area.

Prior to the formation of the State of Chhattisgarh, the Government of Madhya Pradesh had issued permission to Bhilai Steel Plant for distribution of electricity in its township under the provision of Section 28(1) of the erstwhile Indian Electricity Act, 1910, vide letter No. 3116/F-16/3/13/92 dated June 27, 1992.

In February 2005, SAIL-BSP submitted an Application before the Chhattisgarh State Electricity Regulatory Commission (CSERC or Commission) under Section 14 of the Electricity Act, 2003 (herein after referred as "the EA, 2003" or "the Act") for the grant of a new Distribution Licence. The application was considered by the Commission, and a Distribution Licence was granted to SAIL-BSP vide No. 02/Licence/01/022005/1395, dated December 20, 2005, to distribute electricity in the designated area of township of BSP, except for HUDCO area.

1.2 The Electricity Act, 2003, Tariff Policy and Regulations

Section 61 of the Electricity Act, 2003 (herein after referred as 'the EA, 2003' or 'the Act') stipulates the guiding principles for determination of tariff by the Commission and mandates that the tariff should progressively reflect the cost of supply of electricity, reduce cross subsidy, safeguard consumers interest and recover the cost of electricity in a reasonable manner. This Section also stipulates that the Commission while framing the Tariff Regulations shall be guided by the principles and methodologies specified by the Central Electricity Regulatory Commission for determination of the tariff applicable to generating companies and transmission licensees.

Section 62 of the Act stipulates that the Commission shall determine the tariff for:

- Supply of electricity by a Generating Company to a Distribution Licensee;
- Transmission of electricity;

- Wheeling of electricity; and
- Retail sale of electricity.

The Tariff Policy notified by the Government of India in January 2006, as well as the amended Tariff Policy notified in January 2016, provides the framework to balance the conflicting objectives of attracting investments to ensure availability of quality power and protecting the interest of consumers by ensuring that the electricity tariffs are affordable.

1.3 Organisation of the Order

This Order includes the following Chapters:

Chapter 1: Introduction (present Chapter) - provides a brief background of the regulatory process undertaken by the Commission.

Chapter 2: Revised ARR for FY 2023-24 - deals with approval of Aggregate Revenue Requirement for FY 2023-24 in accordance with CSERC MYT Regulations, 2021.

Chapter 3: Tariff Schedule for FY 2023-24 – sets out the category-wise tariff and its applicability for FY 2023-24.

Chapter 4: Directives - discusses the directives issued to BSP-TEED.

2 Revised ARR FOR FY 2023-24

2.1 Background

As mentioned earlier BSP-TEED was required to file a Petition for approval of true-up of FY 2020-21 and FY 2021-22, Revised ARR for FY 2023-24 and determination of retail tariff for FY 2023-24 as per CSERC MYT Regulations, 2021. However, BSP-TEED did not submit the same. Therefore, the Commission has initiated a Suo-Motu Petition No. 8 of 2023 for determination of Revised ARR for FY 2023-24 and retail tariff for FY 2023-24. In response to notice issued for registration of suo-motu petition, BSP-TEED has submitted the revised Power Purchase Cost and revised Sales for FY2023-24 as specified in Regulation 5.7 (b) of CSERC MYT Regulations, 2021.

Based on the data submitted by the BSP-TEED, the Commission has approved revised ARR for FY 2023-24 in accordance with the CSERC MYT Regulations, 2021 as discussed in the following sections.

2.2 Revised Energy Sales

BSP-TEED's submission

Energy Sales projection for FY 2023-24 as submitted by BSP-TEED, is given in the Table below:

Table 2-1: Energy Sales for FY 2023-24 as estimated by BSP-TEED (MU)

Consumer Category	FY 2023-24
LT-1: Domestic	118.89
LT-2: Non-Domestic	29.3
LT-3: Industry	0.5
LT-4: Public Utilities	8.17
LT-5: Temporary Supply	0.04
Total LT	**156.9**
HT-1: Residential	0.13
HT-2: Non-Residential and General Purpose	12.78
HT-3: Public Utilities	11.6
Total HT	**24.51**
Total Sales	**181.41**

Commission's Analysis

The Commission has approved the Energy Sales, based on the data submitted by BSP-TEED. The category-wise energy sales approved by the Commission for FY 2023-24 are shown in the following Table:

Table 2-2: Energy Sales for FY 2023-24 as approved by Commission (MU)

	FY 2023-24	
Consumer Category	**MYT Order**	**Approved by the Commission**
LT-1: Domestic	122.70	118.89
LT-2: Non-Domestic	29.70	29.3
LT-3: Industry	0.50	0.5
LT-4: Public Utilities	8.17	8.17
LT-5: Temporary Supply	0.04	0.04
Total LT	**161.11**	**156.9**
HT-1: Residential	0.13	0.13
HT-2: Non-Residential and General Purpose	13.18	12.78
HT-3: Public Utilities	11.60	11.6
Total HT	**24.91**	**24.51**
Total Sales	**186.02**	**181.41**

2.3 Revised Power Purchase Cost

BSP-TEED's submission

The Power Purchase Cost for FY 2023-24 as submitted by BSP-TEED, is given in the Table below:

Table 2-3: Power Purchase Cost as estimated by BSP-TEED for FY 2023-24 (Rs. Lakh)

Particulars	**FY 2023-24**
Quantum of Power Purchase (MU)	
NSPCL -PP3	205.56
Power Purchase Cost (Rs. Lakh)	
NSPCL -PP3	7646.83
Solar REC Purchase	253.67
Total Power Purchase Cost (Rs. Lakh)	**7900.50**
Avg. Power Purchase Rate (Rs./kWh)	
NSPCL -PP3	3.71
Total	**3.84**

Commission's Analysis

The Commission has considered the power purchase from NSPCL PP1, PP2 and PP3 as per the existing PSA. For estimating the cost of power purchase, the Commission has considered the average power purchase rate of Rs 3.71 per kWh as approved in the MYT Order and the same rate has been submitted by the BSP-TEED vide its letter dated August 14, 2023.

In view of the above, the power purchase quantum and cost approved by the Commission is given in the Table below:

Table 2-4: Power Purchase Cost approved by the Commission for FY 2023-24 (Rs. Lakh)

	FY 2023-24	
Particulars	**MYT Order**	**Approved by the Commission**
Quantum of Power Purchase (MU)		
NSPCL -PP3	210.78	205.56
Power Purchase Cost (Rs. Lakh)		
NSPCL -PP3	7819.94	7646.83
Solar REC Purchase	263.47	253.67
Total Power Purchase Cost (Rs. Lakh)	**8083.41**	**7900.50**
Avg. Power Purchase Rate (Rs./kWh)		
NSPCL -PP3	3.71	3.71
Total	**3.84**	**3.84**

2.4 Revised Aggregate Revenue Requirement for FY 2023-24

BSP-TEED's submission

The ARR for FY 2023-24 as submitted by BSP-TEED, is given in the Table below:

Table 2-5: ARR estimated by BSP-TEED for FY 2023-24 (Rs. Lakh)

Sr. No.	**Particulars**	**FY 2023-24**
1	Power Purchase Cost	7,900.50
2	O&M Expenses	1,924.27
3	Depreciation	48.31
4	Interest on Loan	0.00
5	Interest on Security Deposit	0.00
6	Interest on Working Capital Requirement	89.05
7	Return on Equity	35.67
8	Provision for Bad & Doubtful Debt	0.00
9	Less: Non-Tariff Income	100.32
10	**Net ARR**	**9,897.47**

Commission's Analysis

The summary of the ARR approved by the Commission for BSP-TEED for FY 2023-24 is given in the Table below:

Table 2-6: ARR approved by the Commission for FY 2023-24 (Rs. Lakh)

Sr. No.	Particulars	FY 2023-24	
		MYT Order	**Approved by the Commission**
1	Power Purchase Cost	8,083.41	7,900.50
2	O&M Expenses	1,924.27	1,924.27
3	Depreciation	48.31	48.31
4	Interest on Loan	0.00	0.00
5	Interest on Security Deposit	0.00	0.00
6	Interest on Working Capital Requirement	89.05	89.05
7	Return on Equity	35.67	35.67
8	Provision for Bad & Doubtful Debt	0.00	0.00
9	Less: Non-Tariff Income	100.32	100.32
10	**Net ARR**	**10,080.38**	**9,897.47**

2.5 Average Cost of Supply (Rs. /kWh) for FY 2023-24

Sr. No.	Particulars	Approved
1	Aggregate Revenue Requirement for FY 2023-24 (Rs. Lakhs)	9897.47
2	Total estimated sales (MU)	181.41
3	Average cost of supply	5.46

3 TARIFF SCHEDULE FOR FY 2023-24

This Tariff Schedule shall be applicable from September 1, 2023.

3.1 Tariff Schedule for Low Voltage (LV) Consumers

This tariff schedule is applicable to all LV consumers as follows:

a) Single-phase, 230 Volts up to a maximum Sanctioned Load of 5 kW (excluding agriculture and industrial consumers), and

b) Three-phase, 400 Volts for maximum demand up to 112.5 kW in case of demand- based tariff or for maximum Sanctioned load of 150 HP in case of other tariff, as applicable.

3.1.1 LV-1: Domestic

Applicability

This tariff is applicable to domestic light and fan and power used for all domestic appliances, in residential premises, orphanages, homes for old/physically challenged people and homes for destitute, dharamshalas and working women's hostels run by charitable Trust, Government student hostels, ashrams, offices of National Cadet Core (NCC), Public Libraries and reading rooms, educational institutions and hospitals (including X-rays, etc.) run by charitable trusts / non-profit organizations / societies registered under the Firms and Societies Act, homes for differently abled and mentally retarded, de-addiction and rehabilitation centres, Government hospitals/dispensaries, (excluding private clinics and nursing homes), facilities like prayer hall, gymnasium and club house within the housing society, Government Schools, farm houses for own use, mosques, temples, churches, gurudwaras, religious and spiritual institutions, water works and street lights in private colonies and cooperative societies, common facilities such as lighting in staircase, lifts, firefighting in multi-storied housing complex, light and fan in gauthan and khalihan, kothar, byra where agriculture produce is kept, post office at residence of a villager, residential premises of professionals such as advocates, doctors, artists, consultants, weavers, bidi makers, beauticians, stitching and embroidery workers including their chambers, public toilets, fractional HP motors used for Shailchak by Kumhars in their residences, zero waste centre compost unit.

Tariff

Category of Consumers	Units Slab	Fixed Charge (Rupees per kW)	Energy Charge (Rs. Per kWh)
LV-1: Domestic			
Domestic including BPL Consumers	0 -100 units	Rs. 20/- per kW/month for Sanctioned Load up to 5 kW; Rs. 30/- per kW/month for Sanctioned Load above 5 kW and up to 10 kW; Rs. 40/- per kW per month for Sanctioned Load above 10 kW	2.65
	101-200 units		2.70
	201-400 units		3.95
	401-600 units		4.00
	601 and above units		6.30

Notes:

i. Energy Charges are telescopic. For example, if consumption in any month is 150 units, then for first 100 units, rate of slab 0-100 shall be applicable and for remaining 50 units, rate of slab 101-200 shall be applicable;

ii. Fixed Charges is a monthly minimum charge, whether any energy is consumed during the month or not;

iii. Fixed Charges are telescopic. For example, if Sanctioned Load is 7 kW, then the rate of Rs. 20/- per kW/month shall be applicable for the first 5 kW and the rate of Rs. 30/- per kW/month shall be applicable for the balance 2 kW;

iv. If the Recorded Demand exceeds the Sanctioned Load for any three consecutive months, then the Sanctioned Load shall automatically be restated to the highest demand recorded in these three months. In such cases of upward restatement of Sanctioned Load, the load enhancement charges shall be applicable; however, the Security Deposit shall not be required to be increased correspondingly.

v. If the Recorded Demand is lower than the Sanctioned Load for any three consecutive months, then the Sanctioned Load can be restated to the highest demand recorded in these three months at the option of the consumer.

vi. If a portion of the dwelling is used for the conduct of any business other than those stipulated above, the entire consumption shall be billed under Non- domestic tariff LV-2.

3.1.2 LV-2: Non-Domestic

Applicability

This tariff is applicable to light and fan and power to shops, showrooms, business houses, offices, educational institutions (except those included in LV-1 and LV-5), public buildings, Warehouses, town halls, clubs, gymnasium and health clubs, meeting halls, places of public entertainment, circus, hotels, cinemas, railway stations, private clinics and nursing homes including X-rays plant, diagnostic centres, pathological labs, carpenters and furniture makers, juice centres, billboards/hoardings and advertisement services, typing institutes, internet cafes, STD/ISD PCO's, Mobile Towers, coaching centres, FAX/photocopy shops, tailoring shops, photographers and colour labs, laundries, cycle shops, compressors for filling air, toy making industry, nickel plating on small scale, restaurants, eating establishments, Government circuit houses/rest houses, guest houses, marriage gardens, farmhouses being used for commercial purposes, book binders, offset printers, bakery shop, banks, parlours, printing press, computer centre, petrol pumps and service stations, electric charging centres for Vehicles, HV industrial consumers seeking separate independent LV connection in the same premises of HV industrial connection and other consumers not covered under any other category of LV consumers.

Tariff

Category of Consumers	Units Slab	Fixed Charge (Rs per kW of Contracted load/Billing Demand)	Energy Charge (Rs. per kWh)
LV-2: Non-Domestic	0 – 100 units	Rs. 50 per kW per month	3.75
	101 - 400 units		5.30
	401 and above units		6.00

Notes:

i. Fixed Charges of LV-2.1 is a monthly minimum charge, whether any energy is consumed during the month or not.

ii. If the Recorded Demand exceeds the Sanctioned Load for any three consecutive months, then the Sanctioned Load shall automatically be restated to the highest demand recorded in these three months. In such cases of upward restatement of Sanctioned Load, the load enhancement charges shall be applicable; however, the Security Deposit shall not be required to be increased correspondingly.

iii. If the Recorded Demand is lower than the Sanctioned Load for any three consecutive months, then the Sanctioned Load can be restated to the highest demand recorded in these three months at the option of the consumer.

iv. For charging stations of electric vehicles, a flat rate single part tariff of Rs. 5 per unit shall be applicable.

v. A discount of 10% on Energy Charges shall be applicable for commercial activities being run exclusively by registered women self-help groups.

3.1.3 LV-3: L.V. Industry

Applicability

These tariffs are applicable to power, light and fan for industries such as flour mills, hullers, grinders for grinding masala, textile industries including power looms and handlooms, rice mills, poha and murmura mills, dall-mills, oil mills, ice factories, cold storage plants, ice candies, terracotta, Jute industries, handicraft, agro-processing units, minor forest produce, ethanol industries, laboratories of engineering colleges, ITIs and polytechnics and industrial institutions, aluminium based factory, bakery/biscuit industries, bottling plant, cable/insulation industries, Cement Based Factory, Chemical Plant, Coal Based Industries, Conductor Wire Industries, Cutting & Polishing Of Marble, Fabrication Workshop, Food Processing Industry, Forest Product based factory, GI Wire Industries, Glass Industries, Hot Mixing Plant, IT based industries, Mineral based factory, Plastic Industries, Plywood factory, Pulverize industries, Rolling Mill, Saw Mill, Stone Crusher, Toy Industries, Wire Drawing / Steel Industries, Wire Product, Registered Women self-help group, workshops and fabrication shop, etc.

Tariff

Category of Consumers	Demand Charge	Energy Charge (Rs. per kWh)
LV-3: L.V. Industry	Rs. 120/kW/month on billing demand	4.35

Notes:

i. Demand Charge on contract demand is monthly minimum charge, whether any energy is consumed during the month or not.

ii. In order to give impetus to LV industries located in rural areas, a rebate of 5% in energy charges for consumers specified under tariff category shall be allowed for LV industries located in rural areas notified by Government of Chhattisgarh.

iii. A rebate of 10% on Energy Charges shall be applicable for industrial activities being run exclusively by registered women self-help groups.

iv. A discount of 5% on Energy Charges shall be applicable for Poha and Murmura mills.

3.1.4 LV-4: Public Utilities

Applicability

This tariff is applicable to colonies developed by Chhattisgarh State Housing Board and public utilities such as water supply schemes, sewage treatment plants and sewage pumping installations, crematorium, traffic signals and lighting of public streets including public parks and archaeological and other monuments when requisition for supply is made by Public Health Engineering Department, Local Bodies, Gram Panchayats or any organization made responsible by the Government to maintain these services

Tariff

Category of Consumers	Fixed Charge	Energy Charge (Rs. per kWh)
LV-4: Public Utilities	Rs. 190/kW/month	7.60

Notes:

i. Fixed Charge is monthly minimum charge whether any energy is consumed during the month or not.

ii. If the Recorded Demand exceeds the Sanctioned Load for any three consecutive months, then the Sanctioned Load shall automatically be restated to the highest demand recorded in these three months. In such cases of upward restatement of Sanctioned Load, the load enhancement charges shall be applicable; however, the Security Deposit shall not be required to be increased correspondingly.

iii. If the Recorded Demand is lower than the Sanctioned Load for any three consecutive months, then the Sanctioned Load can be restated to the highest demand recorded in these three months at the option of the consumer.

3.1.5 LV-5: L.V. Temporary Supply

Applicability

This tariff is for connections that are temporary in nature. The tariff applicable shall be as given for the respective category of consumer.

Provided that for construction purpose, a consumer shall be given a temporary connection only.

Temporary supply cannot be demanded by a prospective consumer as a matter of right but will normally be arranged by the Licensee when a requisition is made subject to technical feasibility.

Tariff:

Fixed Charge and Energy Charge shall be billed at one and half times the normal tariff as applicable to the corresponding consumer categories.

Notes:

i. An amount equal to estimated bill for 3 months or for the period of temporary connection requisitioned, whichever is less, is payable before serving the temporary connection, subject to replenishment from time to time and adjustment in the last bill after disconnection.

ii. No temporary connection shall be served without a meter.

iii. Connection and disconnection charge shall be paid as per the schedule of miscellaneous charges.

iv. No rebates/concessions under any head shall be applicable to temporary connections.

v. A month for the purpose of billing of temporary supply shall mean 30 days from the date of connection or part thereof.

vi. In case connected load/maximum demand is found more than Sanctioned load/contract demand, then the billing of excess load/supply shall be done for the amount calculated as per para 1.1.11.

vii. Any expenditure made by the Licensee for providing temporary supply up to the point of supply, shall be paid for by the consumer as per prescribed procedure.

viii. Temporary connections shall not be served unless suitable capacitors, wherever applicable, are installed so as to ensure Power Factor of not less than 0.85 lagging.

ix. Surcharge at the rate of 2% per month or part thereof on the outstanding amount of the bill shall be payable in addition, from the due date of payment of bill, if the bill is not paid by the consumer within the period prescribed.

3.1.6 Terms and Conditions of L.V. Tariff

1. Energy will be supplied to the consumer ordinarily at a single point for the entire premises of the consumer.
2. Sanctioned Load or Contract Demand/Maximum Demand infraction shall be rounded off to the next whole number.
3. If the bills are not issued consecutively for three months or more for any LV Consumer, billing on accumulated meter reading shall not be raised without approval of the officer not below the rank of Manager.
4. For the purpose of separate independent LV connection to HV Industrial consumer in the same premises of HV industrial connection, to meet out its essential load during emergency or non-availability of supply in HV connection under LV 2 category, conditions as mentioned in Clause 4.40 of the Chhattisgarh State Electricity Supply Code and its amendment, if any, shall be applicable.
5. The recorded demand for the respective month shall be reflected in the consumer bill.

3.1.7 Power Factor Incentive and Surcharge

i. Consumers, falling under tariff categories LV 3- LV Industry and LV 4: Public Utilities shall arrange to install suitable low-tension capacitors of appropriate capacity at their cost. The consumer also shall ensure that the capacitors installed by them properly match with the actual requirement of the load so as to ensure average monthly Power Factor of 0.9 or above. A consumer who fails to do so shall be liable to pay Power Factor surcharge @ 35 paise per kWh on the entire consumption of the month.

ii. All LV non-domestic consumers with Contracted Load of 15 kW or above shall arrange to install suitable Low Tension capacitors of appropriate capacity at their cost. The consumer shall ensure that the capacitors installed by him properly match with the actual requirement of the load so as to ensure average monthly Power Factor of 0.9 or above. A consumer who fails to do so will be liable to pay Power Factor surcharge @ 35 paise per kWh on the entire consumption of the month.

iii. All LV installations having welding transformer are required to install suitable Low Tension capacitors so as to ensure Power Factor of not less than 0.9. Consumers not complying with the above shall have to pay Power Factor surcharge of 75 paise per kWh on the entire monthly consumption, provided the load of the welding transformer(s) exceeds 25% of the total Sanctioned load.

Note - For the purposes of computing the connected load of welding transformers in kW, a Power Factor of 0.6 shall be applied to the kVA rating of such welding transformers. The kVA rating can also be calculated on the basis of load voltage and maximum load current on secondary side of welding machine.

iv. The average monthly Power Factor recorded in the meter shall be considered for billing of Power Factor surcharge or Power Factor incentive, as the case maybe.

v. Levy of Power Factor surcharge as indicated above, shall be without prejudice to the rights of BSP-TEED to disconnect the consumer's installation after issue of 15 days' notice if the average monthly Power Factor remains 0.7 or below for a period of more than two consecutive months. It shall remain disconnected till the consumer makes suitable arrangements to improve the Power Factor.

vi. Notwithstanding the above, if the average monthly Power Factor of a new consumer is found to be less than 0.9 at any time during the first six months from the date of connection and if he maintains average monthly Power Factor continuously in subsequent three months at not less than 0.9, then the surcharge billed on account of low Power Factor during the said period shall be withdrawn and credited in next month's bill.

vii. All categories of LV consumers in whose case power factor surcharge is applicable; shall be eligible for Power Factor incentive for Power Factor of above 0.95. Such incentive shall be payable @ 1% of the energy charges for each 0.01 increase or part thereof in power factor above 0.95 up to unity power factor. For example, consumers with Power Factor of 0.965 shall be considered as 0.97 and be eligible for power factor incentive of 2% of energy charges. Consumers with Power Factor of 0.964 shall be considered as 0.96 and be eligible for power factor incentive of 1% of energy charges.

3.1.8 Provisions of billing in case of Excess Supply

1. <u>For Sanctioned load-based tariff</u>

i. The consumers, except the domestic (LV-1) consumers, availing supply at Sanctioned load-based tariff shall restrict their actual connected load within the Sanctioned load. However, in case the actual connected load in any month exceeds the Sanctioned load, the Sanctioned load-based tariff shall apply only to the extent of Sanctioned load and corresponding units of energy. The connected load in excess of Sanctioned load and corresponding units of energy shall be treated as excess supply except the domestic (LV-1) consumers. The excess supply so consumed in any month, shall be charged at the rate of one and half times of the Sanctioned load based tariff applicable to the consumer (fixed and energy charges and VCA charges, as applicable) for the excess connected load to the extent of 20% of Sanctioned load and at the rate of two times of Sanctioned load based tariff if the excess connected load is found beyond 20% of Sanctioned load for actual period of enhancement of load or 6 months whichever is less, including the month in which the existence of excess load is detected and shall be continued to be billed till excess load is removed or Sanctioned load is enhanced.

ii. Where the recording facility of demand is available, the billing on account of excess supply shall be restricted to the recorded month only.

iii. If the Recorded Demand exceeds the Sanctioned Load for any three consecutive months, then the Sanctioned Load, as applicable, shall automatically be restated to the highest demand recorded in these three months;

iv. If the Recorded Demand is lower than the Sanctioned Load for any three consecutive months, then the Sanctioned Load shall be restated to the highest demand recorded in these three months at the option of the consumer.

2. Delayed Payment Surcharge

If the bill is not paid by the consumer within the period (due date) prescribed for payment of the bill, a surcharge @ 1.5% per month or part thereof, on the total outstanding amount of the bill (including arrears, if any, but excluding amount of surcharge), subject to minimum of Rs. 5 shall be payable in addition, from the due date of payment as mentioned in the bill.

3. Additional Charges

Every Local Body shall pay an additional charge equivalent to any tax or fee levied by it under the provisions of any law including the Corporation Act, District Municipalities Act or Gram Panchayat Act on the poles, lines, transformers and other installations through which the Local Body receives supply.

4. Advance Payment Rebate

For advance payment made before commencement of consumption period for which bill is to be prepared, a rebate @ 0.5% per month on the amount which remains with the Licensee at the end of the calendar month excluding security deposit, shall be credited to the account of consumer after adjusting any amount payable to the Licensee subject to the net amount of advance being not less than Rs.1000 and shall be adjustable in next month's bill.

5. Rounding off

The bill shall be rounded off to the nearest multiple of Rs.10. Difference, if any, between the bill amount before and after rounding off, shall be adjusted in next month's bill.

For example: - If the total amount of bill is Rs. 235.00, then the bill shall be rounded off to Rs. 240 and Rs. 5.00 will be credited in next month's bill, whereas if the total amount of bill is Rs. 234.95, then the bill will be rounded off to Rs. 230 and Rs. 4.95 will be debited in next month's bill.

In view of the above provision, no surcharge will be levied on outstanding amount, which is less than Rs. 10.

6. Applicability of tariff

In case of any dispute about applicability of tariff to a particular LV category, the decision of the Commission shall be final and binding.

7. Tax or Duty

The tariff does not include any tax or duty, etc., on electrical energy that may be payable at any time in accordance with any law in force. Such charges, if any, shall be payable by the consumer in addition to tariff charges.

8. Meter Hire

Meter hire shall be charged as per the schedule of miscellaneous charges to all categories of LV consumers except the consumers of domestic light and fan category. Domestic light and fan category consumer shall not be required to pay such charges.

9. Method of payment of Bills

(1) Consumer shall have the option to pay bills online or offline.

(2) Bill amount of more than **five thousand rupees** shall mandatorily be paid online.

(3) For bill amount less than or equal to **five thousand rupees**, consumer may pay the bill through cash or cheque or demand draft or electronic clearing system at designated counters of a bank or through credit or debit cards or online payment through distribution licensees' web portal or any digital mode of payment and any change or further addition in the mode of payment shall be more user friendly for the consumers than the prevailing system.

Provided that the distribution licensee may stipulate a suitable incentive or rebate for payment through online system for consumers who opt to pay bill amount less than or equal to **five thousand rupees**.

(4) The distribution licensee shall establish online portal as well as

sufficient number of collection centres or drop boxes at suitable locations with necessary facilities, where consumer can deposit the bill amount with ease.

10. <u>Conditions to have over-riding effect</u>

All the above conditions of tariff shall be applicable to the consumer notwithstanding the provisions, if any, in the agreement entered into by the consumer with the Licensee.

3.2 Tariff Schedule for High Voltage (HV) Consumers

This tariff schedule is for consumers who avail supply at 11 kV or above.

3.2.1 HV-1: Residential

Applicability

This tariff shall be applicable for bulk supply at one point to colonies, multi- storied residential buildings, townships, including townships of industries provided that consumption of non-domestic nature for other general-purpose load (excluding drinking water supply, sewage pumping and street light) shall not be more than 10% of total monthly energy consumption.

In case the consumption of non-domestic nature for other general-purpose load exceeds 10% of total monthly energy consumption, the tariff of HV-3: Other Industrial and General Purpose Non-Industrial, shall be applicable on entire consumption.

This tariff shall also be applicable to hospitals including educational institutions and X-rays, etc., situated within its premises, run by charitable trusts / non-profit organizations / societies registered under the Firms and Societies Act.

Tariff

Category of Consumers	Demand Charge (Rs./kVA/month)	Energy Charge (Rs. per kWh)
Residential	190	6.70

3.2.2 HV-2: Non-Residential and General Purpose

Applicability

i. This tariff is applicable to other HV categories not covered under HV-1and HV-3 for power, lights, fans, cooling ventilation, etc., which shall mean and include all energy consumption in factory, and consumption for residential and general use therein including offices, stores, canteen compound lighting, etc.

ii. This tariff is also applicable for bulk supply at one point to establishment such as Railways (other than traction), hospitals, offices, hotels, shopping malls, electric charging centres for Vehicles, power supplied to outside of State (border villages), educational institutions, mixture and/or stone crushers and other institutions, etc., having mixed load or non-industrial and/or non-residential load. This tariff is also applicable to all other HV consumers not covered specifically in any other HV tariff category.

iii. This tariff is applicable to consumers availing supply at 220/132/33/11 kV for manufacturing of plant, machinery and equipment used for generation of power from renewable sources of energy including for the manufacturing of hydel turbine, generator and related auxiliaries needed for small hydel plants up to 25 MW.

Tariff

Supply Voltage	Demand Charge (Rs./kVA/month)	Energy Charge (Rs. per kWh)
33 kV supply	190	7.00
11 kV supply	190	7.40

Notes:-

i. For charging stations of Electric Vehicles, a flat rate single part tariff of Rs. 5 per unit shall be applicable.

ii. A discount of 15% on Energy Charges shall be applicable for defence establishments under Government of India.

iii. A discount of 5% on Energy Charges shall be applicable for rice mills/Poha and Murmura mills.

iv. A discount of 10% on Energy Charges shall be applicable for exclusive oxygen plants connected up to 33 kV supply voltage.

v. A discount of 25% on Energy Charges shall be applicable for Textile industries including handlooms and powerlooms, Jute industries, and ethanol industries.

3.2.3 HV 3: Public Utilities

Applicability

i. This tariff shall be applicable for Chhattisgarh State Housing Board and agriculture pump connections, irrigation pumps of lift irrigation schemes of State Government or its agencies/co-operative societies, including colonies developed and energy used for lighting pump houses.

ii. This tariff is also applicable to the consumer availing supply at HV for the purpose of pump/tube well connections, other equipment for tree plantation, fisheries, hatcheries, mushroom cultivation, poultry farms, dairy, cattle breeding farms, sericulture, tissue culture and aquaculture laboratories and milk chilling plant and bakery for power, lights, fans, coolers, etc., which shall mean and include all energy consumed in factory, offices, stores, canteen, compound lighting, etc., and residential use therein.

iii. This tariff shall be applicable for public utility water supply schemes, sewerage treatment plants and sewage pumping installations run by P.H.E. Department, Local Bodies, Gram Panchayat or any organization made responsible by the Government to supply/maintain public water works/sewerage installation including energy used for lighting pump house. This tariff is applicable for supply of power to public water supply schemes, sewerage treatment and pumping installations including the energy used for lighting purposes.

Tariff

Supply Voltage	Demand Charge (Rs./kVA/month)	Energy Charge (Rs. per kVAh)
Irrigation, Agriculture Allied Activities & Public Water Works	190	7.40

Determination of Demand

The maximum demand of supply in each month shall be two times the largest number of kilo Volt Ampere hours delivered at the point of supply during any consecutive 30 minutes in the month as per sliding window principle of measurement of demand.

3.2.4 HV-4: Temporary Connection at H.V.

Applicability

This tariff is applicable to all HV connections.

Provided that for construction purpose, a consumer shall be given a temporary connection only.

Temporary supply cannot be demanded by a prospective consumer as a matter of right but will normally be arranged by the Licensee when a requisition is made subject to technical feasibility.

Tariff:

One and half times of the normal Tariff applicable for the corresponding category of consumer for demand and energy charge shall be applicable.

Notes:

- An amount equal to estimated bill for 3 months or for the period requisitioned, whichever is less, shall be payable in advance before the temporary connection is served subject to replenishment from time to time and adjustment in the last bill after disconnection.
- If maximum demand is found more than the contract demand in any billing month, the billing shall be done at one and half times/two times of the energy charges and Demand Charges as applicable, in case of exceeding contract demand in permanent connection, and shall be calculated as per Clause 10 of Terms & Conditions of HV tariff.
- Any expenditure made by BSP-TEED up to the point of supply for giving temporary connection shall be payable by the consumer as per prescribed procedure.
- Connection and disconnection charges shall be paid separately.
- No rebates/concessions under any head shall be applicable to temporary connections.

- Month for the purpose of billing of temporary supply shall mean 30 days from the date of connection or for part thereof.
- Other terms and conditions of the relevant category of tariff shall also be applicable.

Surcharge at 2% per month or part thereof on the outstanding amount of the bill shall be payable in addition from the due date of payment of bill, if the bill is not paid by the consumer within the period prescribed.

3.2.5 Terms and Conditions of HV Tariff

The maximum and minimum contract demand for different supply voltages is governed as per provisions of the Chhattisgarh State Electricity Supply Code, 2011 and its amendments thereof. Presently, the minimum and maximum

permissible load at respective supply voltage are as below except for independent distributed renewable energy system plants (IDRES) which will be governed by CSERC (Grid Interactive Distributed Renewable Energy Sources) Regulations, 2019:

Supply Voltage	Minimum	Maximum
11 kV	60 kVA	500 kVA
33 kV	60 kVA	15 MVA
132 kV	4 MVA	40 MVA
220 kV	15 MVA	150 MVA

Deviation in contract demand, if any, in respect of the above provisions on account of technical reasons, may be permitted with the approval of the Commission and billing shall be done accordingly. The HV consumers having contract demand exceeding the maximum limit mentioned above for respective voltage of supply shall be billed as specified at Clause 7 of Terms and Conditions of HV Tariff.

1. Point of Supply

Power will be supplied to consumers ordinarily at a single point for the entire premises. In certain categories like coal mines, power may be supplied at more than one point on the request of consumer subject to technical feasibility. HV industrial consumers can avail separate LV supply as per Clause 4.40 of the Chhattisgarh State Electricity Supply Code, 2011 and its amendments thereof, in the same premises.

2. Billing demand

The billing demand for any month shall be the maximum demand (in kVA) of the consumer recorded during the billing month or 80% of the contract demand whichever is higher. The billing demand shall be rounded off to the next whole number.

3. Determination of Demand

The maximum demand means the highest load measured by sliding window principle of measurement in average kVA at the point of supply of a consumer during any consecutive period of 15 minutes during the billing period.

4. Minimum Charge

The demand charge on contract demand (CD) is a monthly minimum charge whether any energy is consumed during the month or not.

5. Rounding off

The amount of HV energy bill shall be rounded off to the nearest multiple of Rs.10.

For example - the amount of Rs. 12345 will be rounded off to Rs. 12350 and Rs. 12344.95 shall be rounded off to Rs. 12340.

In view of the above provision no surcharge will be levied on outstanding amount, which is less than Rs. 10.

6. Delayed Payment Surcharge

If the bill is not paid by the consumer within the period prescribed (due date) for payment of the bill, a surcharge @ 1.5% per month or part thereof, on the total outstanding amount of the bill (including arrears, if any but excluding amount of surcharge), shall be payable in addition, from the due date of payment as mentioned in the bill.

7. Additional charges for Local Bodies

Every Local Body shall pay an additional charge equivalent to any tax or fee levied by it under the provisions of any law including the Corporation Act, District Municipalities Act or Gram Panchayat Act on the poles, lines, transformers and other installations through which the Local Body receives supply.

8. Advance Payment Rebate

For advance payment made before commencement of consumption period for which bill is to be prepared, a rebate @ 0.5% per month on the amount, which remains with the Licensee at the end of calendar month excluding security deposit, shall be credited to the account of consumer after adjusting any amount payable to the Licensee, subject to the net amount of advance being not less than Rs.20,000 and shall be adjustable in next month's bill.

9. Additional Charge for Exceeding Contract Demand

The consumers should restrict their maximum demand to the extent of contract demand. In case the maximum demand during any month exceeds the contract demand, the tariff at normal rate shall apply only to the extent of the contract demand and corresponding units of energy. The demand in excess of contract demand and corresponding units of energy shall be treated as excess supply. The excess supply so availed, if any, in any month shall be charged at one and half times of the normal tariff applicable to the consumer (demand and energy charges) for the excess demand to the extent of 20% of contract demand and at the rate of two times of normal tariff if the excess demand is found beyond 20% of contract demand.

For all other consumer, where TOD is applicable:

i. During Off-Peak Hours, no additional charge will be levied on exceeding Contract Demand up to a maximum limit of 20%.

ii. Beyond 120% of contract demand, excess supply will be billed as per prescribed formula.

iii. Maximum recorded demand during off peak load period will not be considered for the purpose of demand charges billing, i.e., demand charges will be levied on maximum recorded demand during normal and peak load period.

For the purpose of billing of excess supply, the billing demand and the units of energy shall be determined as under:-

i. Billing Demand / Contract Demand:

The demand in excess of the contract demand in any month shall be the billing demand/ contract demand of the excess supply.

ii. Units Energy:

The units of energy corresponding to kVA of the portion of the demand in excess of the contract demand shall be:

EU= TU (1-CD/MD)

Where

EU - denotes units corresponding to excess supply, TU - denotes total units supplied during the month, CD - denotes contract demand, and
MD - denotes maximum demand.

The excess supply availed in any month shall be charged along with the monthly bill and shall be payable by the consumer.

The billing of excess supply at one and half times/two times of the normal tariff applicable to consumer is without prejudice to BSP-TEED's right to discontinue the supply in accordance with the provisions contained in the Chhattisgarh State Electricity Supply Code, 2011 and its amendments thereof.

i. No rebates/incentive is payable on such excess supply.

10. Additional Charge

The HV consumers having contract demand exceeding the maximum limit as prescribed in Clause 1 of terms and conditions of HV tariff shall be levied additional charges at the rate of 5% on Energy Charges of the respective consumer category.

11. Meter Hire

Meter hire shall be charged as per the schedule of miscellaneous and general charges of the H.V. Category consumers.

12. Tax or Duty

The tariff does not include any tax or duty, etc., on electrical energy that may be payable at any time in accordance with any law/State Government Rules in force. Such charges, if any, shall be payable by the consumer in addition to tariff charges.

13. Dispute on applicability of tariff

In case of any dispute on applicability of tariff on a particular category of HV industry/ consumer, the decision of the Commission shall be final and binding.

All the above conditions of tariff shall be applicable to the consumer notwithstanding the provisions, if any, in the agreement entered into by the consumer with the Licensee.

14. Method of payment of Bills

(1) Consumer shall have the option to pay bills online or offline.

(2) The distribution licensee shall establish online portal as well as sufficient number of collection centres or drop boxes at suitable locations with necessary facilities, where consumer can deposit the bill amount with ease.

4 Directives

4.1 Directive to BSP-TEED

The Commission has given following directives to BSP-TEED in tariff order issued for FY 2022-23:

i. The Commission directs BSP-TEED strictly to adhere with the Supply Code, Standard of Performance Regulation and Tariff order so that quality services to the consumers be assured.

ii. The Commission directs BSP-TEED to immediately take action to upgrade its existing distribution system so as to meet the growing demand in the Bhilai township area and provide safe and reliable electricity supply to the consumers. For this purpose, BSP-TEED should file Petition for approval of Capital Investment Plan with next tariff petition for the consideration of the Commission.

iii. BSP-TEED is directed to make the Consumer Grievance Redressal Forum functional.

iv. BSP TEED is directed to ensure that all relevant data for revenue computations are made available, in line with the revised tariff structure approved by the Commission in this Order, along with the subsequent ARR and Tariff Petition. Further, kVAh consumption data should be submitted for all HV categories

The Commission is directing BSP-TEED to comply the above directives and submit a compliance report along with the tariff petition filed for retail tariff for FY 2024-25 by 30/11/2023.