

Before  
The Hon'ble Jharkhand State Electricity  
Regulatory Commission, Ranchi



Petition  
for  
Tariff Proposal for FY 2021-22



Submitted By

Jharkhand Bijli Vitran Nigam Limited  
(JBVNL)

Dhurwa, HEC, Ranchi

**Before the Hon'ble Jharkhand State Electricity Regulatory Commission, Ranchi**

**Filing Number:** \_\_\_\_\_

**Case Number:** \_\_\_\_\_

**IN THE MATTER OF:** Filing of Petition for approval of Tariff Proposal for FY 2021-22 as per the regulations of Jharkhand State Electricity Regulatory Commission (JSEB) Terms and Conditions for Determination of Distribution Tariff) Regulations, 2020

**AND IN THE MATTER OF:** Jharkhand Bijli Vitran Nigam Limited (hereinafter referred to as "JBVNL", or "erstwhile JSEB -Distribution function" which shall mean for the purpose of this Petition the "Licensee" or "Petitioner") having its registered office at HEC, Dhurwa, Ranchi

The Petitioner respectfully submits hereunder:

1. The erstwhile Jharkhand State Electricity Board ("Board" or "JSEB") was a statutory body constituted under Section 5 of the Electricity (Supply) Act, 1948 and was engaged in electricity generation, transmission, distribution and related activities in the State of Jharkhand.
2. Jharkhand Urja Vikas Nigam Ltd. (herein after to be referred to as "JUVNL" or "the Holding company") has been incorporated under Indian Companies Act, 1956 pursuant to decision of Government of Jharkhand to reorganize erstwhile Jharkhand State Electricity Board (herein after referred to as "JSEB"). The Petitioner submits that the said reorganization of the JSEB has been done by Government of Jharkhand pursuant to "Part XIII – Reorganization of Board" read with section 131 of the Electricity Act 2003. The Holding company has been incorporated on 16th September 2013 with the Registrar of Companies, Jharkhand, Ranchi and has obtained Certificate of Commencement of Business on 12th November 2013.
3. Jharkhand Bijli Vitran Nigam Ltd. (herein after to be referred to as "JBVNL" or "the Petitioner" or erstwhile "JSEB-Distribution function" has been incorporated on 23rd October 2013 with the Registrar of Companies, Jharkhand, Ranchi and has obtained Certificate of Commencement of Business on 28th November 2013. The Petitioner is a Company constituted under the provisions of Government of Jharkhand, General Resolution as

notified by transfer scheme vide notification no. 8, dated 6th January 2014. The Distribution Company - Jharkhand Bijli Vitran Nigam Ltd. is duly registered with the Registrar of Companies, Ranchi on 23rd October 2013

4. Pursuant to the enactment of the Electricity Act, 2003, every utility is required to submit its Aggregate Revenue Requirement (ARR) for control period and Tariff Petitions as per procedures outlined in section 61, 62 and 64, of Electricity Act 2003, and the governing regulations thereof.
5. JBVNL has filed Petition for approval of Provisional True-up for FY 2019-20, Annual Performance Review (APR) for FY 2020-21, Approval of Multi-Year Tariff Aggregate Revenue Requirement (MYT-ARR) and Business Plan for Control Period (FY 2021-22 to FY 2025-26) as per the Electricity Act, 2003 and as per the provisions of the regulations issued by the Hon'ble Jharkhand State Electricity Regulatory Commission (JSERC) (Terms and Conditions For Determination of Distribution Tariff) Regulations, 2020 and JSERC (Terms and Conditions For Determination of Distribution Tariff) Regulations, 2015 on 30<sup>th</sup> November, 2020. As submitted in the given Petition, JBVNL has prayed to Hon'ble Commission to allow submission of Tariff Proposal (approved by Board of Directors) along with Audited Annual Accounts for FY 2019-20 and Final True-up for FY 2019-20. JBVNL vide instant Petition is filing an interim tariff proposal for FY 2021-22, however the same is subjected to approval from Board of Directors, JBVNL. Post approval of Board of Directors, JBVNL would file for final tariff proposal for FY 2021-22.

Jharkhand Bijli Vitran Nigam Limited  
Petitioner

Ranchi

Dated:

## **Table of Content**

|                                                     |           |
|-----------------------------------------------------|-----------|
| <b>List of Tables</b> .....                         | 5         |
| <b>1. Tariff Proposal</b> .....                     | <b>6</b>  |
| Key highlights and changes in Tariff Proposals..... | 6         |
| Summary of Tariff Proposals .....                   | 6         |
| I. Domestic Services (DS) .....                     | 7         |
| II. Commercial Services (CS) .....                  | 10        |
| III. Irrigation & Agriculture Service (IAS).....    | 13        |
| IV. Industrial Services.....                        | 14        |
| V. Institutional Services .....                     | 17        |
| VI. Temporary Connections .....                     | 19        |
| <b>2. Schedule of Charges</b> .....                 | <b>21</b> |
| <b>3. Terms and Condition of Supply</b> .....       | <b>27</b> |

## List of Tables

|                                                                                                                                                       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Table 1: Summary of Tariff Proposal.....                                                                                                              | 6  |
| Table 2: Summary of Tariff Proposal.....                                                                                                              | 6  |
| Table 3: Existing and Proposed Tariff - DS .....                                                                                                      | 9  |
| Table 4: Comparison of existing domestic urban metered tariffs with approved tariffs in other States as per the applicable recent tariff orders ..... | 10 |
| Table 5: Existing and Proposed Tariff - CS.....                                                                                                       | 11 |
| Table 6: Ratings of Capacitors for Inductive Load.....                                                                                                | 12 |
| Table 7: Comparison of existing Commercial tariffs with approved tariffs in other States as per the applicable recent tariff orders .....             | 13 |
| Table 8: Existing and Proposed Tariff - IAS.....                                                                                                      | 13 |
| Table 9: Comparison of existing IAS tariffs with approved tariffs in other States as per the applicable recent tariff orders.....                     | 14 |
| Table 10: Existing and Proposed Tariff – Industrial Services .....                                                                                    | 15 |
| Table 11: Ratings of Capacitors for Inductive Load .....                                                                                              | 16 |
| Table 12: Comparison of existing Industrial Services tariffs with approved tariffs in other States .....                                              | 17 |
| Table 13: Existing and Proposed Tariff – Institutional Services.....                                                                                  | 18 |
| Table 14: Existing and Proposed Tariff – Temporary Supply.....                                                                                        | 20 |
| Table 15: Inflation of last few Years .....                                                                                                           | 21 |
| Table 16: Minimum wages in Jharkhand and Bihar .....                                                                                                  | 22 |
| Table 17: Summary of Proposed Schedule of charges .....                                                                                               | 24 |
| Table 18: Charges related service connection .....                                                                                                    | 25 |
| Table 19: Charges related to meter .....                                                                                                              | 25 |
| Table 20: Charges related meter rent .....                                                                                                            | 26 |
| Table 21: Voltage Rebate.....                                                                                                                         | 28 |
| Table 22: Consumer wise Load Factor.....                                                                                                              | 30 |

# 1. Tariff Proposal

## Key highlights and changes in Tariff Proposals

- 1. Voltage Wise Cost of Supply:** As per direction of Hon'ble Commission, JBVNL has conducted voltage wise Cost of Supply (COS). The voltage-wise COS as per the report for FY 2017-18 and their re-appropriation for FY 2021-22 is tabulated below:

**Table 1: Summary of Tariff Proposal**

| Voltage Level | Voltage-Wise Cost of Supply |                        |
|---------------|-----------------------------|------------------------|
|               | 2017-18 (Actual)            | 2020-21 (proportioned) |
| 33 kV         | 4.82                        | 5.87                   |
| 11kV          | 4.97                        | 6.06                   |
| LT            | 7.16                        | 8.73                   |
| Average CoS   | <b>6.54</b>                 | <b>7.97</b>            |

JBVNL has proposed tariff for various categories in line with cost of supply at their voltage level.

- 2. Simplification and Rationalization of Tariff:** As per Clause 8.3 of National Tariff Policy, the tariffs need to be simplified and the consumer categories and slabs need to be reduced. In order to further simply the tariff structure and in accordance with the National Tariff Policy 2016, the Petitioner has removed the unit-wise slabs among the tariff categories and sub-categories. And the same has been approved by Hon'ble Commission in its Tariff Order dated 28<sup>th</sup> February, 2019. However, in order to reduce the financial burden on the low income and needy consumers segments, the Petitioner would propose the subsidy from the State Govt. to be given in slab-wise manner. This would ensure that overall burden over the consumers would not be impacted with the removal of slabs among the categories and sub-categories.
- 3. Unmetered category:** As per Hon'ble Commission Order dated 01st October, 2020 regarding Tariff for FY 2020-21, tariff for unmetered connections as per the Order dated April 27, 2018 shall be applicable until December, 2020. However, there may be some left-over consumers whose metering couldn't be completed in the timeframe. JBVNL requests Hon'ble Commission to approve tariff based on principles of L x D x H x F in its Tariff Order for such spillover consumers.

## Summary of Tariff Proposals

- 1.1 The table below presents the existing and proposed tariff for various categories.

**Table 2: Summary of Tariff Proposal**

| Category/<br>Sub-<br>Category     | Sub-Category                         | Existing Component of Tariff<br>(FY 2020-21) |                      | Proposed Component of<br>Tariff (FY 2021-22) |                       |
|-----------------------------------|--------------------------------------|----------------------------------------------|----------------------|----------------------------------------------|-----------------------|
|                                   |                                      | Energy<br>Charges                            | Fixed Charges        | Energy<br>Charges                            | Fixed Charges         |
| <b>Domestic</b>                   | Rural                                | 5.75 / kWh                                   | 20 / Conn./<br>Month | 6.50 / kWh                                   | 50 / Conn./<br>Month  |
|                                   | Urban                                | 6.25 / kWh                                   | 75 / Conn./<br>Month | 6.75 / kWh                                   | 100 / Conn./<br>Month |
|                                   | HT                                   | 6.00 / kVAh                                  | 100 / kVA /<br>Month | 6.50 / kVAh                                  | 200 / kVA /<br>Month  |
| <b>Commercial</b>                 | Rural (More<br>than 5 kW)            | 5.75 / kWh                                   | 50/kW/Month          | 6.25 / kWh                                   | 100/kW/Month          |
|                                   | Urban (More<br>than 5 kW)            | 6.00 / kWh                                   | 100/kW/Month         | 6.50 / kWh                                   | 150/kW/Month          |
| <b>Irrigation and Agriculture</b> |                                      | 5.00 / kWh                                   | 20 / HP/ Month       | 5.50 / kWh                                   | 40 / HP/ Month        |
| <b>Industrial</b>                 | Low Tension<br>Industrial<br>Supply  | 5.75 / kVAh                                  | 100 / kVA /<br>Month | 6.25 / kVAh                                  | 200 / kVA /<br>Month  |
|                                   | High Tension<br>Industrial<br>Supply | 5.50 / kVAh                                  | 350 / kVA /<br>Month | 6.00 / kVAh                                  | 500 / kVA /<br>Month  |
|                                   | High Tension<br>Special Service      | 5.50 / kVAh                                  | 350 / kVA /<br>Month | 6.00 / kVAh                                  | 500 / kVA /<br>Month  |
| <b>Institutional</b>              | Streetlight<br>Service               | 6.25 / kWh                                   | 100 / kW/<br>Month   | 6.25 / kWh                                   | 100 / kW/<br>Month    |
|                                   | Railway<br>Traction<br>Services      | 5.25 / kVAh                                  | 350 / kVA /<br>Month | 5.50 / kVAh                                  | 350 / kVA /<br>Month  |
|                                   | Military<br>Engineering<br>Services  | 5.25 / kVAh                                  | 350 / kVA /<br>Month | 5.50 / kVAh                                  | 350 / kVA /<br>Month  |
|                                   | Other<br>Distribution<br>Licensees   | 5.25 / kVAh                                  | 350 / kVA /<br>Month | 5.50 / kVAh                                  | 350 / kVA /<br>Month  |

1.2 Category wise tariff proposals along with explanations are provided in this chapter for consideration of the Hon'ble Commission.

## I. Domestic Services (DS)

### Applicability

Domestic Service–Rural, Domestic Service–Urban and Domestic Service-HT

- 1.3 This schedule shall apply to private residential premises for domestic use for household electric appliances such as Radios, Fans, Televisions, Desert Coolers, Air Conditioner, etc. and including Motors pumps for lifting water up to 1 HP for domestic purposes and other household electrical appliances not covered under any other schedule.
- 1.4 This rate is also applicable for supply to religious institutions such as Temples, Gurudwaras, Mosques, Church and Burial/Crematorium grounds and other recognized charitable institutions (including Govt. Educational Institutions), where no rental or fees is charged whatsoever (duly certified by the Income Tax Authorities). If any fee or rentals are charged, such institution will be charged under Commercial Category.
- 1.5 Rural drinking water schemes which are managed by Panchayats and User's Co-operatives are also included under this Category and corresponding Tariff would be charged depending upon the load of Pumping motors as applicable to the DS category.
- 1.6 This rate is also applicable for all consumers with contracted demand of upto 5 kW mixed, commercial, industrial, educational institutions, drinking water schemes or for any other purpose, except streetlight connections and agriculture/allied connections.

### **Category of Services**

- a) Domestic Service – Rural: - For rural areas (including rural drinking water schemes) not covered by area indicated under DS-Urban.
- b) Domestic Service – DS-Urban: For Urban areas covered by Nagar Nigam, Nagar Parishad, Nagar Panchayat.
- c) Domestic service – HT (DS – HT): - This Schedule shall apply for domestic connection in Housing Colonies/ Housing Complex/Houses of multi storied buildings purely for residential use for single point metered supply, with power supply at 33kV or 11kV voltage level. DS-HT consumers, who supply power to individual households, the average per unit charges billed to an individual consumer shall not exceed 105% of average per unit cost paid to the Petitioner. This additional 5% allowed reflects the internal distribution losses in housing complex and administrative and distribution costs.

### **Service Character**

1. For DS- Rural: AC, 50 Cycles, Single Phase at 230 Volts, Three Phase at 400 Volts.



2. For DS- Urban: AC, 50 Cycles, Single Phase at 230 Volts, Three Phase at 400 Volts.
3. For DS- HT: AC, 50 Cycles, at 11 kV or 33 kV.

**Table 3: Existing and Proposed Tariff - DS**

| Category/<br>Sub-<br>Category | Sub-Category | Existing Component of Tariff<br>(FY 2020-21) |                      | Proposed Component of<br>Tariff (FY 2021-22) |                       |
|-------------------------------|--------------|----------------------------------------------|----------------------|----------------------------------------------|-----------------------|
|                               |              | Energy<br>Charges                            | Fixed Charges        | Energy<br>Charges                            | Fixed Charges         |
| Domestic                      | Rural        | 5.75 / kWh                                   | 20 / Conn./<br>Month | 6.50 / kWh                                   | 50 / Conn./<br>Month  |
|                               | Urban        | 6.25 / kWh                                   | 75 / Conn./<br>Month | 6.75 / kWh                                   | 100 / Conn./<br>Month |
|                               | HT           | 6.00 / kVAh                                  | 100 / kVA /<br>Month | 6.50 / kVAh                                  | 200 / kVA /<br>Month  |

### Delayed Payment Surcharge

For Domestic Service category, the delayed payment surcharge shall be at the rate of 1.5% per month and part thereof.

### Summary of tariff proposal for Domestic Service (DS tariff) and Rationale for Change in Tariff

1.7 The Petitioner has retained single tariff for the domestic category and has not opted for telescopic tariff. This would provide a simplified tariff which would not only be easy for the domestic consumers to understand but for the utility as well for the purpose of billing. However, in order to reduce the financial burden on the low income and needy consumers, the Petitioner would propose the subsidy from the State Govt. to be given in slabs. Thus, the overall burden over the domestic consumers would not be impacted with the removal of slabs.

1.8 **Fixed Charges based on per connection basis:** The Petitioner has retained fixed charges for domestic consumers on per connection basis. This has been done in order to reduce the human intervention in the establishment of fixed charges on a consumer since most of these consumers does not have smart meters installed at their premise and it requires physical verification to verify the actual load and demand of the consumer. Moreover, this shall prevent the need for inspecting officer to regularly inspect the consumers premise for regularization of excess load and avoid unnecessary hassles for both Utility and consumers.

**For DS-HT Category Billing Demand:** The Billing Demand shall be the Maximum Demand recorded during the month or 75% of Contract Demand whichever is higher. The penalty on exceeding Billing Demand will be applicable

in accordance with Chapter 9 of instant Petition.

- 1.9 **Unmetered category:** In compliance with the directives of the Hon'ble Commission, the Petitioner has removed the domestic unmetered category and has not proposed any such tariff for unmetered consumers for FY 2021-22. The Petitioner is already installing meters for un-metered consumers. However, there may be some left-over consumers whose metering couldn't be completed in the timeframe. JBVNL requests Hon'ble Commission to approve tariff based on principles of L x D x H x F in its Tariff Order for such spillover consumers..
- 1.10 Tariff hike has been proposed in order to move the retail tariffs for the category closer to the Voltage-Wise Cost of Supply at LT level and for reducing the overall revenue gap for the JBVNL.
- 1.11 JBVNL submits below a comparison of tariff for domestic category with Bihar, which illustrates the lower levels of tariffs in the State for the information of the Hon'ble Commission:

**Table 4: Comparison of existing domestic urban metered tariffs with approved tariffs in other States as per the applicable recent tariff orders**

| State        | Applicable Fixed Charge (Domestic)                                                                                                                                                                                                                                  | Applicable Energy Charge (Domestic)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bihar</b> | <p><b>Kutir Jyoti (metered) (BPL):</b> Rs.10/month/ Connection</p> <p><b>DS-I Rural (Metered):</b> Rs.20/kW or part/ month</p> <p><b>DS-II (Urban Demand based):</b> Rs.40/kW or part/ month</p> <p><b>DS-III (Group Demand based):</b> Rs.40/kW or part/ month</p> | <p><b>Kutir Jyoti (metered) (BPL):</b><br/>0-50 Unit - Rs.6.05/ Unit<br/>Above 50 Units – As per DS-I metered</p> <p><b>DS-I Rural (Metered):</b><br/>0-50 Unit - Rs.6.05/ Unit<br/>51-100 Units – Rs.6.30/ Unit<br/>Above 100 - Rs.6.60/ Unit<br/>Above 200 - Rs.6.95/ Unit</p> <p><b>DS-II (Urban Demand based):</b><br/><b>1-100 Unit</b> - Rs.6.05/ Unit<br/><b>101-200 Unit</b> - Rs.6.85/ Unit<br/><b>201-300</b> - Rs.7.70/ Unit<br/><b>Above 300</b> - Rs.8.50/ Unit</p> <p><b>DS-III (Group based):</b> Rs 7.40/Unit</p> |

## II. Commercial Services (CS)

### Applicability

This schedule shall apply to all consumers, using electrical energy for light, fan and power loads for non-domestic purposes like shops, hospitals (govt. or private), nursing

homes, clinics, dispensaries, restaurants, hotels, clubs, guest houses, marriage houses, public halls, show rooms, workshops, central air-conditioning units, offices (govt. or private), commercial establishments, cinemas, X-ray plants, schools and colleges (govt. or private), boarding/lodging houses, libraries (govt. or private), research institutes (govt. or private), railway stations, fuel-oil stations, service stations (including vehicle service stations), All India Radio/T.V. installations, printing presses, commercial trusts/societies, Museums, poultry farms, banks, theatres, common facilities in multi-storied commercial office/buildings, Haj house, Dharmshala and such other installations not covered under any other tariff schedule.

This schedule shall also applicable to electricity supply availed through separate (independent) connections for the purpose of advertisements, hoardings and other conspicuous consumption such as external flood light, displays, neon signs at public places (roads, railway stations, airports etc.), departmental stores, commercial establishments, malls, multiplexes, theatres, clubs, hotels and other such entertainment/ leisure establishments whose Connected Load/Contracted Demand is greater than 5kW and less than or equal to 100 kVA (or equivalent in terms of HP or kW).

### Category of Services

- a) Commercial Services – Areas not covered by area indicated for Commercial Service Urban and more than 5 kW connected load.
- b) Commercial Service – Urban: For Urban Areas covered by Nagar Nigam, Nagar Parishad, Nagar Panchayat and more than 5 kW connected load.

### Service Character

1. CS- Rural: - AC 50 Cycles, Single phase at 230 Volts or Three Phase at 400 Volts
2. CS -Urban: - AC 50 Cycles, Single phase at 230 Volts or Three Phase at 400 Volts

**Table 5: Existing and Proposed Tariff - CS**

| Category/<br>Sub-<br>Category | Sub-Category | Existing Component of<br>Tariff (FY 2020-21) |                  | Proposed Component of<br>Tariff (FY 2021-22) |               |
|-------------------------------|--------------|----------------------------------------------|------------------|----------------------------------------------|---------------|
|                               |              | Energy<br>Charges                            | Fixed<br>Charges | Energy<br>Charges                            | Fixed Charges |
| <b>Commercial</b>             | Rural        | 5.75 / kWh                                   | 50/kW/Month      | 6.25 / kWh                                   | 100/kW/Month  |
|                               | Urban        | 6.00 / kWh                                   | 100/kW/Month     | 6.50 / kWh                                   | 150/kW/Month  |

### Delayed Payment Surcharge

1.12 For Commercial Service category, the delayed payment surcharge shall be at the rate of 1.5% per month and part thereof.

### **Installation of shunt capacitors for CS**

1.13 All CS - Urban consumers having aggregate inductive load greater than 3 HP and, shall install capacitors of required KVAR in accordance with the table shown below:

**Table 6: Ratings of Capacitors for Inductive Load**

| <b>Rating of Individual Inductive Load in HP</b> | <b>kVAR Rating of LT capacitors</b> |
|--------------------------------------------------|-------------------------------------|
| <b>3 HP to 5 HP (2.24 kW to 3.73 kW)</b>         | 1                                   |
| <b>5 HP to 7.5 HP (3.73 kW to 5.59 kW)</b>       | 2                                   |
| <b>7.5 HP to 10 HP (5.59 kW to 7.46 kW)</b>      | 3                                   |
| <b>10 HP to 15 HP (7.46 kW to 11.19 kW)</b>      | 4                                   |
| <b>15 HP to 20 HP (11.19 kW to 14.91 kW)</b>     | 6                                   |
| <b>20 HP to 30 HP (14.91 kW to 22.37 kW)</b>     | 7                                   |
| <b>30 HP to 40 HP (22.37 kW to 29.82 kW)</b>     | 10                                  |
| <b>40 HP to 50 HP (29.82 kW to 37.28 kW)</b>     | 10 – 15                             |
| <b>50 HP to 100 HP (37.28 kW to 74.57 kW)</b>    | 20 – 30                             |

The utility shall not release any new LT connections having aggregate inductive load greater than 5 HP/ 4 KW unless the capacitors of suitable rating are installed.

### **Summary of tariff proposal for Commercial Service (CS tariff) and Rationale for Change in Tariff**

1.14 The Petitioner has retained single tariff for the Commercial category and has not opted for telescopic tariff. This would provide a simplified tariff which would not only be easy for the consumers to understand but for the utility as well for the purpose of billing.

1.15 **Fixed Charges based on connected load basis for CS Category:** As per Hon'ble JSERC Order dated 01<sup>st</sup> Oct'2020 regarding Tariff of JBVNL for FY 2020-21 JBVNL has not proposed Fixed Charges for commercial category on per connection basis is not appropriate especially considering that the marginal consumers having load upto 5 kW will now be charged at Domestic Tariff. JBVNL therefore has proposed that commercial consumers with load above 5 kW should be billed based on the Contracted Load/Demand rather than on per connection basis.

1.16 Tariff hike has been proposed in order to move the retail tariffs for the category closer to the Voltage-Wise Cost of Supply at LT level and for reducing the overall revenue gap for the JBVNL.

1.17 JBVNL submits below a comparison of commercial category which illustrates the lower levels of tariffs in the State for the information of the Hon'ble Commission:

**Table 7: Comparison of existing Commercial tariffs with approved tariffs in other States as per the applicable recent tariff orders**

| State        | Applicable Fixed Charge (Commercial)                                                                                                                                                                                                | Applicable Energy Charge (Commercial)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bihar</b> | <p><b>NDS-I Rural (Metered)</b> - Rs.30/kW or part/ month</p> <p><b>NDS-II Contract demand upto 0.5 kW</b>- Rs.100/month/ connection</p> <p><b>NDS-II Contract demand above 0.5kW and upto 70 kW</b> - Rs.180/kW or part/ month</p> | <p><b>NDS-I Rural (Metered) –</b><br/>                     1-100 Units - Rs.6.30/Unit<br/>                     101-200 Units - Rs.6.85/Unit<br/>                     Above 200 Units - Rs.7.40/Unit</p> <p><b>NDS-II Contract demand upto 0.5 kW</b> - Rs.6.30/Unit for all units</p> <p><b>NDS-II Contract demand above 0.5 kW –</b><br/>                     1-100 Units - Rs.6.30/Unit<br/>                     101-200 Units - Rs.6.85/Unit<br/>                     Above 200 Units - Rs.7.40/Unit</p> |
| <b>Delhi</b> | <b>Non-Domestic</b> – Rs. 250/ kVA/ month                                                                                                                                                                                           | <b>Non-Domestic –</b><br>Upto 3 kVA Rs. 6.00/kVAh<br>Above 3 kVA Rs. 8.50/kVAh                                                                                                                                                                                                                                                                                                                                                                                                                              |

### III. Irrigation & Agriculture Service (IAS)

#### Applicability

This schedule shall apply to all consumers for use of electrical energy for Agriculture purposes including tube wells and processing of the agricultural produce, confined to Chaff-Cutter, Thresher, Cane crusher and Rice-Hauler, when operated by the agriculturist in the field or farm and does not include Rice mills, Flour mills, Oil mills, Dal mills, Rice-Hauler or expellers and equipment for organic farming.

#### Service Character:

AC 50 Cycles, Single Phase at 230 volts / 3 Phase at 400 volts

**Table 8: Existing and Proposed Tariff - IAS**

| Category/<br>Sub-Category         | Existing Component of Tariff (FY 2020-21) |                | Proposed Component of Tariff (FY 2021-22) |                |
|-----------------------------------|-------------------------------------------|----------------|-------------------------------------------|----------------|
|                                   | Energy Charges                            | Fixed Charges  | Energy Charges                            | Fixed Charges  |
| <b>Irrigation and Agriculture</b> | 5.00 / kWh                                | 20 / HP/ Month | 5.50 / kWh                                | 40 / HP/ Month |

#### Delayed Payment Surcharge

1.18 For Irrigation and agriculture service category, the delayed payment surcharge

shall be at the rate of 1.5% per month and part thereof.

### Summary of changes proposed to IAS tariff and rationale for change in tariff

1.19 Tariff hike has been proposed in order to move the retail tariffs for the category closer to the Voltage-Wise Cost of Supply and for reducing the overall revenue gap for the JBVNL.

1.20 JBVNL submits below a comparison of tariff for Agriculture Category consumers which illustrates the lower levels of tariffs in the State for the information of the Hon'ble Commission:

**Table 9: Comparison of existing IAS tariffs with approved tariffs in other States as per the applicable recent tariff orders**

| State | Applicable Fixed Charge                            | Applicable Energy Charge                 |
|-------|----------------------------------------------------|------------------------------------------|
| Bihar | <b>IAS-I (Unmetered)</b> - Rs.800/HP or part/month | <b>IAS-I (Metered)</b> - Rs.5.50/Unit    |
|       | <b>IAS-I (Metered)</b> - Rs.30/HP or part/month    |                                          |
|       | <b>IAS-II (Metered)</b> - Rs.240/HP or part/month  | <b>IAS-II (Metered)</b> - Rs. 6.55/ Unit |

## IV. Industrial Services

### Applicability

- Low Tension Industrial Service (LTIS)
- High Tension Industrial Service (HTS)
- High Tension Special Service (HTSS)

**Low Tension Industrial Service (LTIS):** This schedule shall apply to all industrial units applying for a load of more than 5 kW and less than or equal to 100 kVA (or equivalent in terms of HP or kW). The equivalent HP for 100 kVA shall be 114 HP and the equivalent kW for 100 kVA shall be 85.044 kW.

**Note:** Any LTIS consumer who is found to have more than 100 kVA load shall be treated as HTS consumer.

**High Tension Industrial Service (HTS):** All the consumers drawing power at voltage level at 6.6 kV and above except Domestic-HT consumers and HT- Institutional

Consumers.

**High Tension Special Service (HTSS):** This tariff schedule shall apply to all consumers who have a contracted demand of 300 KVA and more for induction/arc Furnace. In case of induction/arc furnace consumers (applicable for existing and new consumers), the contract demand shall be based on the total capacity of the induction/arc furnace and the equipment as per manufacturer technical specification and not on the basis of measurement. This tariff schedule will not apply to casting units having induction furnace of melting capacity of 500 Kg or below.

**Service Character**

**Low Tension Industrial Service (LTIS):** AC, 50 Cycles, Single Phase supply at 230 Volts or 3 Phase Supply at 400 volts. Demand Based tariff for sanctioned load above 5.00 kW upto 100 kVA.

**High Tension Industrial Service (HTS):** 50 Cycles, 3 Phase at 6.6 kV / 11 kV / 33 kV / 132 kV / 220 kV / 400 kV

**High Tension Special Service (HTSS):** 50 Cycles, 3 Phase at 11 kV / 33 kV / 132 kV / 220 kV / 400 kV.

**Table 10: Existing and Proposed Tariff – Industrial Services**

| Category/<br>Sub-<br>Category | Sub-<br>Category               | Existing Component of Tariff<br>(FY 2020-21) |                   | Proposed Component of Tariff<br>(FY 2021-22) |                   |
|-------------------------------|--------------------------------|----------------------------------------------|-------------------|----------------------------------------------|-------------------|
|                               |                                | Energy Charges                               | Fixed Charges     | Energy Charges                               | Fixed Charges     |
| <b>Industrial</b>             | Low Tension Industrial Supply  | 5.75 / kVAh                                  | 100 / kVA / Month | 6.25 / kVAh                                  | 200 / kVA / Month |
|                               | High Tension Industrial Supply | 5.50 / kVAh                                  | 350 / kVA / Month | 6.00 / kVAh                                  | 500 / kVA / Month |
|                               | High Tension Special Service   | 5.50 / kVAh                                  | 350 / kVA / Month | 6.00 / kVAh                                  | 500 / kVA / Month |

**LTIS- Demand Based:** The billing demand will be the maximum demand recorded during the month or 75% of the sanctioned load, whichever is higher. In case Recorded Demand is more than 100 kVA/85 kW for any month for more than three instances within a Financial Year, the average of the Maximum Demand recorded during such instances shall be treated as the new Contract Demand for the purpose of billing of future months and the consumer will have to get into a new Agreement under the HTS category for the revised contracted demand with the Petitioner as per the terms and conditions of HT supply.

**HTS & HTSS-** For billing demand shall be the maximum demand recorded during the month or 85% of contract demand or 101 kVA whichever is higher.

The penalty on exceeding contract demand shall be 1.5 times the normal charges for actual demand exceeding 110% of the contracted demand; the penal charges shall be applicable on exceeded demand w.r.t. the Contract demand only.

### **Installation of shunt capacitors**

1.21 All LTIS consumers having aggregate inductive load greater than 3 HP and above, shall install capacitors of required KVAR rating provided in the following table:

**Table 11: Ratings of Capacitors for Inductive Load**

| <b>Rating of Individual Inductive Load in HP</b> | <b>kVAR Rating of LT capacitors</b> |
|--------------------------------------------------|-------------------------------------|
| <b>3 HP to 5 HP (2.24 kW to 3.73 kW)</b>         | 1                                   |
| <b>5 HP to 7.5 HP (3.73 kW to 5.59 kW)</b>       | 2                                   |
| <b>7.5 HP to 10 HP (5.59 kW to 7.46 kW)</b>      | 3                                   |
| <b>10 HP to 15 HP (7.46 kW to 11.19 kW)</b>      | 4                                   |
| <b>15 HP to 20 HP (11.19 kW to 14.91 kW)</b>     | 6                                   |
| <b>20 HP to 30 HP (14.91 kW to 22.37 kW)</b>     | 7                                   |
| <b>30 HP to 40 HP (22.37 kW to 29.82 kW)</b>     | 10                                  |
| <b>40 HP to 50 HP (29.82 kW to 37.28 kW)</b>     | 10 – 15                             |
| <b>50 HP to 100 HP (37.28 kW to 74.57 kW)</b>    | 20 – 30                             |

### **Penalty for exceeding Billing/ Contract Demand**

1.22 Penalty for exceeding Billing/ Contract Demand shall be applicable as per Clause-I of Terms and Conditions of Supply

### **Voltage Rebate**

1.23 Voltage rebate to the HTS & HTSS consumers shall be applicable as per Clause IV of Terms and Conditions of Supply.

### **Delayed Payment Surcharge**

1.24 Delayed Payment Surcharge will be charged in accordance with Clause III of Terms and Conditions of Supply.

1.25 Power factor rebate shall not be allowed to consumers with outstanding arrears.

### **Load Factor Rebate**

1.26 Load Factor rebate to the HTS & HTSS consumers shall be applicable as per Clause V of Terms and Conditions of Supply.



## Summary of changes proposed to Industrial Services tariff and rationale for change in tariff

1.27 JBVNL has proposed slight increase in Industrial Tariff to recover its Revenue Gap. However even after the proposed increase, the industrial tariff in JBVNL license area is still lower in comparison to other states. A comparison of Industrial Tariff of other states is given below:

**Table 12: Comparison of existing Industrial Services tariffs with approved tariffs in other States**

| State        | Applicable Fixed Charge                                                                                                                                                                                                                                                                                                         | Applicable Energy Charge                                                                                                                                                                                                                                                            |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bihar</b> | <b>LTIS-I:</b> Rs.144/kVA or part/month<br><b>LTIS-II:</b> Rs 180/kVA or part/month<br><b>HTS-I (11 KV):</b> Rs.300/kVA/Month<br><b>HTS-II (33 kV):</b> Rs.300/kVA/Month<br><b>HTS-III (Min. demand of 7.5 MVA &amp; 132 kV):</b> Rs.300/kVA/Month<br><b>HTS- IV:</b> Rs.300/kVA/Month<br><b>HTSS (33 kV):</b> Rs.700/kVA/Month | <b>LTIS-I:</b> Rs.6.40/kVAh<br><b>LTIS-II:</b> Rs.6.40/kVAh<br><b>HTS-I (11 KV):</b> Rs.6.55/kVAh<br><b>HTS-II (33 kV):</b> Rs.6.50/kVAh<br><b>HTS-III (Min. demand of 7.5 MVA &amp; 132 kV):</b> Rs.6.45/kVAh<br><b>HTS- IV:</b> Rs.6.40/kVAh<br><b>HTSS (33 kV):</b> Rs.4.05/kVAh |
| <b>Delhi</b> | <b>Industrial:</b> Rs.250/kVA/month                                                                                                                                                                                                                                                                                             | <b>Industrial:</b> Rs.7.75/kVAh                                                                                                                                                                                                                                                     |

## V. Institutional Services

This tariff schedule shall apply for use of Street Lighting system, Railway Traction, Military Engineering Services and Other Distribution Licensees.

### Applicability

**Street Light Service (SS):** This tariff schedule shall apply for use of Street Lighting system, including single system in corporation, municipality, notified area committee, panchayats etc. and also in areas not covered by municipalities and Notified Area Committee provided the number of lamps served from a point of supply is not less than 5.

**Railway Traction (RTS) and Military Engineering Services (MES):** This tariff schedule shall apply for use of railway traction and Military Engineering Services (MES) for a mixed load in defence cantonment and related area.

**Other distribution licensees:** This tariff schedule shall apply to other distribution licensees procuring power from JBVNL for the sole purpose of supplying it to its consumers.

**Service Character:**

**Street Light Service (SS):** AC, 50 cycles, Single phase at 230 Volts or three phase at 400 Volts.

**Railway Traction Service (RTS):** AC, 50 cycles, Single, two or three phase at 25 kV/132 kV.

**Military Engineering Services (MES):** AC, 50 cycles, three phase at 11 KV/ 33 KV/ 132 kV

**Other Distribution Licensees:** AC, 50 cycles, three phase at 11 KV/ 33 KV/ 132 kV

**Table 13: Existing and Proposed Tariff – Institutional Services**

| Category/<br>Sub-<br>Category | Sub-Category                                       | Existing Component of Tariff<br>(FY 2020-21) |                      | Proposed Component of<br>Tariff (FY 2021-22) |                      |
|-------------------------------|----------------------------------------------------|----------------------------------------------|----------------------|----------------------------------------------|----------------------|
|                               |                                                    | Energy<br>Charges                            | Fixed Charges        | Energy<br>Charges                            | Fixed Charges        |
| <b>Institutional</b>          | Streetlight<br>Service*                            | 6.25 / kWh                                   | 100 / kW/<br>Month   | 6.25 / kWh                                   | 100 / kW/<br>Month   |
|                               | Railway Traction<br>Services                       | 5.25 / kVAh                                  | 350 / kVA /<br>Month | 5.50 / kVAh                                  | 350 / kVA /<br>Month |
|                               | Military<br>Engineering<br>Services                | 5.25 / kVAh                                  | 350 / kVA /<br>Month | 5.50 / kVAh                                  | 350 / kVA /<br>Month |
|                               | Other distribution<br>licensee/ Deemed<br>Licensee | 5.25 / kVAh                                  | 350 / kVA /<br>Month | 5.50 / kVAh                                  | 350 / kVA /<br>Month |

\* At times it is not practical to install meters at streetlight poles due to availability of space, hence Hon'ble Commission may either approve load based tariff for Street light considering 50% load factor as street lights are switched on for average duration of 12 hours only or Tariff approved for street light as per the Tariff order dated 27th April 2018 regarding Tariff order for FY 2017-18 and FY 2018-19 may be retained which was Rs 500 per 100 watt/month

The billing demand for RTS/MES/Other Distribution Licensee shall be the maximum demand recorded during the month or 85% of contract demand whichever is higher. The penalty on exceeding billing demand will be applicable in accordance with Clause I of Terms & Conditions of Supply

### **Maximum Demand for Railway Traction Services**

1.28 The demand charge shall be applied on maximum demand recorded or contract demand whichever is higher at any fifteen minutes time block for which the meter installed should have 15 minutes integration time.

### **Delayed Payment Surcharge**

1.29 The delayed payment surcharge shall be applicable in accordance with Clause III of Terms & Conditions of Supply.

### **Voltage Rebate**

1.30 Voltage rebate to the RTS, MES and Other Distribution Licensee consumers shall be applicable as per Clause IV of Terms and Conditions of Supply.

### **Load Factor Rebate**

1.31 Load Factor rebate to the RTS, MES and Other Distribution Licensee consumers shall be applicable as per Clause V of Terms and Conditions of Supply.

## **VI. Temporary Connections**

### **Applicability:**

The Temporary tariff shall be applicable as per the following conditions:

- a) Temporary tariff is proposed to be equivalent to 1.5 times of the applicable fixed and energy charges for temporary connections falling in each prescribed tariff category with all other terms and conditions of tariff remaining the same.
- b) Temporary connections shall be given prepaid meters with prepaid balance equivalent to 45 days of sale of power which shall be based on the assessment formula (LDHF) prescribed by the Commission.
- c) Temporary connections shall initially be provided for a period of up to 30 days which can be extended on month to month basis upto six months.

**Table 14: Existing and Proposed Tariff – Temporary Supply**

| <b>Category</b>  | <b>Existing Component of Tariff<br/>(FY 2020-21)</b> |                                                    | <b>Proposed Component of Tariff<br/>(FY 2021-22)</b> |                                                 |
|------------------|------------------------------------------------------|----------------------------------------------------|------------------------------------------------------|-------------------------------------------------|
|                  | <b>Energy<br/>Charges</b>                            | <b>Fixed<br/>Charges</b>                           | <b>Energy Charges</b>                                | <b>Fixed Charges</b>                            |
| <b>All Units</b> | 1.5 times of<br>the applicable<br>energy<br>charges  | 1.5 times of<br>the<br>applicable<br>fixed charges | 1.5 times of<br>the applicable<br>energy charges     | 1.5 times of<br>the applicable<br>fixed charges |

## 2. Schedule of Charges

### Background

- 2.1 Hon'ble commission has notified the first supply code as JSERC (Electricity Supply Code), Regulations, 2005 for JSEB which was constituted on March 10, 2001 under the Electricity (Supply) Act, 1948 as a result of the bifurcation of the erstwhile State of Bihar.
- 2.2 Though, the miscellaneous charges have been slightly revised by Hon'ble Commission for 2020-21. the Petitioner requests the Hon'ble Commission that these charges are not in line with considering the current inflation and the charges taken by the other States. The present charges and proposed charges are discussed in the following sections.

### Rationale for increase of Miscellaneous charges

#### a) Inflation last few years

- 2.3 As discussed in the above section, that there has not been much increase in miscellaneous charges in last 10 years. Though the miscellaneous charges have been slightly revised by Hon'ble Commission for FY 2019-20 and 2020-21, these charges are not in line with considering the current inflation and the charges taken by the other States.
- 2.4 The Petitioner in line with the JSERC Regulations 2015, has estimated the inflation factor based on the actual Wholesale Price Index (WPI) and Consumer Price Index (CPI) for the last few years. The table below provides the average of Inflation indices of CPI and WPI:

**Table 15: Inflation of last few Years**

| Index | FY 13-14 | FY 14-15 | FY 15-16 | FY 16-17 | FY 17-18 | FY 18-19 | FY 19-20 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| CPI   | 236.0    | 250.8    | 265.0    | 275.9    | 284.2    | 299.9    | 317.4    |
| WPI   | 112      | 114      | 110      | 112      | 115      | 120      | 122      |

| Period                                              | WPI          | CPI    | Total  |
|-----------------------------------------------------|--------------|--------|--------|
| Weightage                                           | 0.45         | 0.55   | 1.00   |
| Avg Indexation for FY 20-21                         | 120.27       | 333.00 |        |
| Avg Indexation n-1 (Index * Wt.)                    | 54.12        | 183.15 | 237.27 |
| Avg Indexation for FY 19-20                         | 121.80       | 317.42 |        |
| Avg Indexation n (Index * Wt.)                      | 54.81        | 174.58 | 229.39 |
| <b>Combined Inflation (Indexation/Indexation-1)</b> | <b>3.44%</b> |        |        |

#### b) Labour rates

2.5 It can be noted that the labour charges for a skilled worker is Rs. 355/day as per the Department of Labour, employment & Training, Government of Jharkhand. However charges for works related to testing of meter/installation for single/three phase consumers have been kept at Rs. 100 and charges for work relating to removing/refixing of Meter/Changing of Meter or Meter Equipment has been kept at only Rs. 200. Hence, it is noteworthy that the current miscellaneous charges are not complying with the industry standards and need to be revised to bring them to a realistic level.

**c) Miscellaneous charges in other neighbour states**

2.6 JBVNL is the distribution utility with one of the lowest miscellaneous charges in the country. Even neighboring States like Bihar, Odisha, Chhattisgarh and West Bengal have significantly higher charges.

2.7 It is noteworthy that Jharkhand was constituted as a result of the bifurcation of the erstwhile State of Bihar on 15 November 2000. However, both the state share the same demography and geography. It can be seen in the below sub-sections that Bihar being the neighboring state of Jharkhand has comparatively high miscellaneous charges. However, if prevailing labour charges are compared for both the states, Bihar has similar labour charges as of Jharkhand which is depicted in the table below.

**Table 16: Minimum wages in Jharkhand and Bihar**

| <b>Class of employee</b> | <b>Jharkhand</b> | <b>Bihar</b> |
|--------------------------|------------------|--------------|
| Unskilled                | 295.80           | 292.00       |
| Semi-skilled             | 309.89           | 304.00       |
| Skilled                  | 408.50           | 370.00       |
| Highly-skilled           | 471.88           | 451.00       |

*\* Labour rates for contractual labour as effective from 1<sup>st</sup> Oct'20*

2.8 In line with the prevalent miscellaneous charges applicable in state of Bihar, JBVNL has proposed its schedule of miscellaneous charges. A detailed comparison of JBVNL rates with other states are provided in the following sub-sections.

**Revised schedule of charges**

2.9 Considering the above factors like inflation and present labour rates and in line with miscellaneous charges applicable in other neighbor, JBVNL would like to propose revised schedule of miscellaneous charges.

2.10 The Petitioner has proposed charges under 7 nos. heads as following-

- 1 . New Connection application charges,
- 2 . Disconnection charges,
3. Reconnection charges,

4. Consumer Service Charges,
5. Meter testing charges,
6. Meter rent and
7. Transformer rent.

- 2.11 The new connection application fees includes the application fees for new connection which is exclusive of other charges related to new connection (applicable as per the cost estimate). It is pertinent to mention that free of cost/ installment basis electricity connections are being provided under various Central and State sponsored schemes. Therefore, the charges shall be applicable as per the scheme guidelines for the consumers covered under any Central or State Government sponsored scheme. It is pertinent to mention that significantly higher effort is required for processing connection at 11 kV and higher, hence the charge for them should be increased.
- 2.12 The Petitioner has also revised the charges for Temporary and Permanent disconnection charges. It is noteworthy that significant effort is being required for permanent disconnection as the job includes removal of meter, metering units, cables & wires and other allied materials, transportation charges, labour charges, etc. Therefore, a higher amount as compared to temporary charges is being proposed for Permanent disconnection. Also, reconnection charges have been proposed which is in line with the temporary disconnection charges.
- 2.13 As part of the simplification of miscellaneous charges, the Petitioner has proposed a single charge related to consumer services which includes- re-sealing, fuse replacement, modification in connection layout/ meter shifting, meter fixing/ removal, service line replacement, name change, load modification, subsequent installation testing, Replacement of Defective or Burnt meters. It is submitted that considering the average life of 5 years of meters, the burnt meter charges shall not be applicable, if the meter gets defective after 5 years from the date of installation. It is also submitted that the consumer has to bear the actual cost of meter as the penalty in case of burnt meters and defective meters (in case of consumers' fault).
- 2.14 It is submitted that the Petitioner has not proposed any charges related to meter rent. However, the charges related to meter testing is being proposed which is inclusive of metering unit in case CT operated and Tri-vector meter. It is submitted that in case where the consumer opts for meter testing through a third party/ external agency, the charges of external agency shall be borne by the consumer itself, in addition to the above applicable service charges.
- 2.15 It is pertinent to mention that industrial consumers have to make a separate arrangement of required capacity transformer for availing electricity. However, in

some special cases, JBVNL has provided a temporary arrangement of transformer to Industrial consumers or in some cases of temporary supply. Therefore, the approved charges pertaining to transformer rent is inevitable to bring clarity among consumer as well as to utility. However the Petitioner would like to submit that charge for the transformer should be levied on per kilowatt basis.

2.16 To discourage the consumer for opting transformer on rent and to make self-arrangement of the same, the Petitioner has proposed for slightly higher transformer rent. It is also submitted that transformer rent shall only be applicable for maximum of 6 months.

2.17 The summary of miscellaneous charges proposed by JBVNL is detailed in the table below. It is humbly prayed to Hon'ble Commission to approved the below mentioned miscellaneous charges:

**Table 17: Summary of Proposed Schedule of charges**

| Types of Charges                                                                                                                                                                                                                                                                            |           | Single phase | 3 Phase (whole-current) | 3 Phase (CT operated)                     | Meter at 11kV | Meter at 33kV | 132/220 kV |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-------------------------|-------------------------------------------|---------------|---------------|------------|
| Application fee for New Connection application                                                                                                                                                                                                                                              |           | 150          | 150                     | 150                                       | 550           | 1000          | 1500       |
| Dis-connection charges (on consumer request)                                                                                                                                                                                                                                                | Temporary | 200          | 200                     | 500                                       | 1500          | 1500          | 1500       |
|                                                                                                                                                                                                                                                                                             | Permanent | 200          | 400                     | 1000                                      | 2000          | 5000          | 5000       |
| Re-connection charges                                                                                                                                                                                                                                                                       |           | 200          | 300                     | 500                                       | 1500          | 1500          | 1500       |
| <b>Consumer service for each incidence</b> (including, re-sealing, fuse replacement, modification in connection layout/ meter shifting, meter fixing/ removal, service line replacement, name change, load modification, subsequent installation testing, Replacement of Defective or Burnt |           | 250          | 500                     | 700                                       | 1,500         | 2,000         | 5,000      |
| Meter Testing (including combined metering unit)                                                                                                                                                                                                                                            |           | 100          | 200                     | 300/-<br>1800(Tri-Vector meter)           | 5,000         | 5,000         | 8,000      |
| Transformer Rent- if provided by JBVNL on request of consumer                                                                                                                                                                                                                               |           | NA           | NA                      | Rs. 100/kVA/month of transformer capacity |               |               |            |

### Comparison of charges with other states

2.18 The Petitioner has provided a detailed comparison of miscellaneous charges of



JBVNL with charges prevailing in other state distribution utilities.

**Table 18: Charges related service connection**

| S No.    | Particulars                            | Scale of Charges                |                                                             |                                                 |
|----------|----------------------------------------|---------------------------------|-------------------------------------------------------------|-------------------------------------------------|
|          |                                        | JBVNL (Present)                 | JBVNL (Proposed)                                            | Bihar                                           |
| <b>1</b> | Application fee                        |                                 |                                                             |                                                 |
|          | LT Single Phase                        | Rs 100                          | Rs 150                                                      | Rs. 20 for KJY,<br>Rs. 75 for Others            |
|          | LT Three Phase                         | Rs. 100                         | Rs. 150                                                     | Rs. 300 for LT Industrial<br>Rs. 200 for Others |
|          | LT Three Phase<br>(CT Operated)        | Rs. 100                         | Rs. 150                                                     | Rs. 300 for LT Industrial<br>Rs. 200 for Others |
|          | 11kV                                   | Rs. 500                         | Rs. 550                                                     | Rs. 750                                         |
|          | 33 kV                                  | Rs. 500                         | Rs. 1,000                                                   | Rs. 750                                         |
|          | 132 kV/220 kV                          | Rs. 500                         | Rs. 1,500                                                   | Rs. 750                                         |
| <b>2</b> | Disconnection (Dis)/ Reconnection (Re) |                                 |                                                             |                                                 |
|          | Single phase                           | Dis: Rs. 200 Re-<br>Rs. 200     | Dis: Rs. 200 Re-<br>Rs. 200                                 | Rs. 100                                         |
|          | 3-ph LT                                | Dis: Rs. 200 Re-<br>Rs. 200     | Temp Dis: Rs. 200<br>Perm Dis: Rs. 400<br>Re- Rs. 300       | Rs. 900 for LT Industrial<br>Rs. 200 for Others |
|          | 3- ph LT with CT                       |                                 | Temp Dis: Rs. 500<br>Perm Dis: Rs. 1,000<br>Re- Rs. 500     |                                                 |
|          | 11kV                                   | Dis: Rs. 1,500<br>Re- Rs. 1,500 | Temp Dis: Rs. 1,500<br>Perm Dis: Rs. 2,000<br>Re- Rs. 1,500 | Rs. 3000                                        |
|          | 33 kV                                  | Dis: Rs. 1,500<br>Re- Rs. 1,500 | Temp Dis: Rs. 1,500<br>Perm Dis: Rs. 5,000<br>Re- Rs. 1,500 | Rs. 3000                                        |
|          | 132/220 kV                             | Dis: Rs. 1,500<br>Re- Rs. 1,500 | Temp Dis: Rs. 1,500<br>Perm Dis: Rs. 5,000<br>Re- Rs. 1,500 | Rs. 3000                                        |

**Table 19: Charges related to meter**

| S No.    | Particulars                                   | Scale of Charges |                  |           |
|----------|-----------------------------------------------|------------------|------------------|-----------|
|          |                                               | JBVNL (Present)  | JBVNL (Proposed) | Bihar     |
| <b>1</b> | Meter test when accuracy disputed by consumer |                  |                  |           |
|          | Single phase                                  | Rs. 100          | Rs. 100          | Rs. 100   |
|          | Three phase                                   | Rs. 100          | Rs. 200          | Rs. 200   |
|          | Three phase (CT)                              | Rs. 100          | Rs. 300          | Rs. 300   |
|          | Tri vector/ special type meter                | Rs. 1,000        | Rs. 1,800        | Rs. 1,800 |
|          | 33/11 kV metering equipment                   | Rs. 1,000        | Rs 5,000         | Rs 5,000  |
|          | 132/220 kV metering equipment                 | Rs. 1,000        | Rs 8,000         | Rs 8,000  |
| <b>2</b> | Removing/ Fixing / Re-fixing of meter         |                  |                  |           |
|          | Single phase                                  | Rs. 200          | Rs.250           | Rs.200    |

| S No. | Particulars                    | Scale of Charges |                  |           |
|-------|--------------------------------|------------------|------------------|-----------|
|       |                                | JBVNL (Present)  | JBVNL (Proposed) | Bihar     |
|       | Three phase                    | Rs. 200          | Rs.500           | Rs.400    |
|       | Tri vector/ special type meter | Rs. 1,000        | Rs.700           | Rs.600    |
|       | Three Phase meter with CT      | Rs. 1,000        | Rs 700           | Rs.500    |
|       | 11 kV metering equipment       | Rs. 1,000        | Rs. 1,500        | Rs. 1,200 |
|       | 33 kV metering equipment       | Rs. 1,000        | Rs. 2,000        | Rs. 1,200 |
|       | 132/220 kV metering equipment  | Rs. 1,000        | Rs. 5,000        | Rs. 1,200 |

**Table 20: Charges related meter rent**

| S No.    | Particulars                | Scale of Charges                 |               |
|----------|----------------------------|----------------------------------|---------------|
|          |                            | JBVNL<br>(Existing and Proposed) | Bihar         |
| <b>1</b> | Replacement of Burnt Meter |                                  |               |
|          | Replacement of Burnt Meter | Cost of meter                    | Cost of meter |

## 3. Terms and Condition of Supply

3.1 The Petitioner is hereby submitting following terms and conditions of supply besides terms and conditions provided in the JSERC (Electricity Supply Code), Regulations, 2015, for kind perusal of the Hon'ble Commission.

### **Clause I: Penalty for exceeding Billing/ Contract Demand**

3.2 In case the consumer's actual recorded demand exceeds 110% of the contract demand, then normal demand charge will be applicable up to 110% of contract demand. However, once the consumer surpasses the 110% threshold, then penal tariff shall be applicable @ 1.5 times of existing charges for the demand over and above the contract demand (i.e 100%) and NOT on the demand exceeding 110%.

3.3 Further, in case any consumer exceeds the Contract Demand on more than three occasions in a calendar year, the highest demand so recorded would be treated as the revised contract demand.

3.4 In case actual demand is higher than the contract demand for three continuous months, the maximum demand of the last three months shall be treated as the new contract demand for the purpose of billing of future months and the consumer will have to get into a new agreement for the revised contract demand with the licensee within the period defined by the Licensee and communicated to the consumer failing which the consumer will be charged @ 2 times of the demand charges as long as the consumer does not enter the agreement.

3.5 Once the actual demand is recorded to be higher than contract demand for two continuous months, the licensee would serve notice to the consumer after the end of the second month for enhancement of the contract demand. The consumer would be liable to respond within 15 days of receipt of such notice and submit application for enhancement of contract demand to the licensee. The licensee would, within 15 days of receipt of response from the consumer, finalize the new agreement after making necessary changes at consumer's installations.

3.6 In case the consumer fails to respond within 15 days, the licensee would have the right to initiate enhancement of load as per the last recorded contract demand. While, in case the consumer provides an undertaking that the actual demand shall not exceed the contract demand again for a period of at least six months from the last billing, the licensee shall continue to bill the consumer as per the existing contract demand and billing demand.

3.7 Provided that if the consumer fails to adhere to the undertaking and the actual demand exceeds the contract demand within the subsequent six months of the undertaking, the consumer shall have to pay a penal charge of 2 times the normal

tariff for a period of three consecutive months and the licensee shall, after serving 7 days' notice to the consumer, enhance the contract demand of the consumer as per the last recorded actual demand.

### Clause II: Electricity Duty

3.8 The charges in this tariff schedule do not include charges on account of Electricity Duty/ Surcharge to the consumers under the State Electricity Duty Act, 1948 and the rules framed there under and as amended from time to time and any other Statutory levy which may take effect from time to time after making corrections for the loss in the distribution system.

### Clause III: Delayed Payment Surcharge

3.9 In case the electricity bills are not paid within the due date mentioned on the bill, delayed payment charges of 1.5% percent per month or part thereof on the total electricity bill (including Taxes and Duties) shall be levied on the bill amount. The due date for making payment of energy bills or other charges shall be twenty-one days from the date of issuance of bill. In case, the licensee defaults in generating and delivering bills on timely basis, DPS will not be charged for the period of default by licensee.

### Clause IV: Voltage Rebate

3.10 It is submitted that the Hon'ble Commission vide its Tariff Order dated 01.10.2020 has revised the voltage rebate to be given to Consumers on Voltage level of 33kV and above. It is here pertinent to mention that the above mentioned voltage rebate would put an additional burden of 50 Lacs per month. In view of same, the petitioner requests the Hon'ble Commission to approve the voltage rebate as given below:

3.11 Voltage rebate will be applicable on energy charges as given below:

**Table 21: Voltage Rebate**

| Consumer Category             | Voltage Rebate |
|-------------------------------|----------------|
| HTS/HTSS – 33 kV/66 kV        | 2.00%          |
| <b>HTS &amp; HTSS – 132KV</b> | <b>3.00%</b>   |

**Note:** The above rebate will be available only on monthly basis and consumer with arrears shall not be eligible for the above rebates. However, the applicable rebates shall be allowed to consumers with outstanding dues, wherein such dues have been stayed by the appropriate authority/Courts.

### Clause V: Load Factor Rebate

3.12 It is submitted that the Hon'ble Commission vide its Tariff Order dated 01.10.2020 has revised the Load Factor rebate to be given to Consumers. It is here pertinent to mention that the above-mentioned Load Factor rebate would put an additional

burden of approx.. Rs 4.4 Crore per month. Further, as the rebate is allowed on the total consumption and not on incremental consumption, it defeats the primary objective of incentivizing the consumers for increasing the consumption above the threshold.

3.13 Moreover, the Petitioner hereby proposes to remove the load factor rebate as under the two part tariff regime, the fixed charges per unit are reduced for every improvement in load factor. This results in overall per unit reduction in cost of electricity to the consumer and results in double counting of benefits of higher consumption to the consumer, whereas, the lower load factor on the other hand is not being penalized. It is submitted that the Load Factor rebate is being approved by the Commission in previous Tariff Orders with a view to encourage better load utilization by HT consumers having above 70% utilization, lower system losses and better system operation. The Load factor rebate had been introduced earlier in large and heavy consumers to curb the theft of electricity. But, now licensees have installed high precision meters to monitor the trend and other parameters and as such it appears that there is no need to provide incentive for consumption. It is further submitted that no such rebate is given to consumers in most of the other States in the country. Hence it is prayed to the Hon'ble Commission to remove the load factor rebate for all consumer categories.

### **Clause VI: TOD Tariff**

3.14 TOD tariff proposed shall be applicable as follows-

- Off Peak Hours: 10:00 PM to 06:00 AM: 85% of normal rate of energy charge.
- Normal Hours: 10:00 AM to 6:00 PM: 100% of normal rate of energy charge
- Peak Hours: 06:00 AM to 10:00 AM & 06:00 PM to 10:00 PM: 120% of normal rate of energy charge.

### **Clause VII: Rebate for prompt online payment**

3.15 The due date for making payment of energy bills or other charges shall be 21 days after issue date of the bill. Rebate of 0.5% on the billed amount for timely payment of the full amount of the bills through online web portal or digital methods shall be allowed for all categories of consumers.

### **Clause VIII: Rebate for Prepaid Metering**

3.16 A rebate to prepaid meters at 3% of the Energy Charges for the respective Consumer Category.

## **Other Terms and Conditions**

### **Point of Supply**

3.17 The Power supply shall normally be provided at a single point for the entire premises. In certain categories like coal mines power may be supplied at more than one point on request of consumer subject to technical feasibility. But in such cases metering and billing shall be done separately for each point.

### **Dishonored Cheques**

3.18 In the event of dishonored cheque for payment against a particular bill, the Licensee shall charge a minimum of Rs. 300 or 0.5% of the billed amount, whichever is higher. The DPS shall be levied extra as per the applicable terms and conditions of DPS for the respective category.

### **Sale of energy**

3.19 No consumer shall be allowed to sell the electricity purchased from the Licensee to any other person/ entity.

### **Release of new connections**

3.20 No new connections shall be provided without appropriate meter.

### **Conversion factors**

3.21 The following shall be the conversion factors, as and where applicable: (PF=0.85):

1 Kilowatt (KW) = 1.176 Kilovolt ampere (kVA)

1 Kilowatt (KW) = 1 / 0.746 Horse Power (HP)

1 Horse Power (1 HP) = 0.878 Kilovolt ampere (KVA)

### **Disputed Bills**

3.22 In case of disputed bill, the consumer would be liable to pay their dues based on last 3 month's consumption pattern which will be subsequently adjusted if found erroneous against future bills.

### **Stopped/ defective meters**

3.23 In case of existing consumers with previous consumption pattern, the provisional average bill shall be issued on the basis of average of previous three months consumption. In case of meter being out of order from the period before which no pattern of consumption is available, the provisional average bill shall be issued on the basis of sanctioned/ contract load on following load factor applicable to respective categories, as shown below:

**Table 22: Consumer wise Load Factor**

| <b>Consumer Category</b>                    | <b>Load Factor</b> |
|---------------------------------------------|--------------------|
| <b>Domestic &amp; Religious Institution</b> | 0.10               |
| <b>Non-Domestic</b>                         | 0.20               |
| <b>LTIS/ PHED LT</b>                        | 0.15               |
| <b>DS-HT</b>                                | 0.15               |

|                          |      |
|--------------------------|------|
| <b>HTS</b>               | 0.25 |
| <b>11 KV</b>             | 0.30 |
| <b>33 KV</b>             | 0.50 |
| <b>132/200 KV/400 kV</b> | 0.50 |
| <b>HTSS</b>              | 0.25 |
| <b>RTS</b>               | 0.10 |

The Consumer should furnish usage details of their continuous load/shift wise load/otherwise.

## Temporary Supply

### Applicability

3.24 This tariff shall apply for connections being temporary in nature for period of less than one year. The applicability shall be as given in the respective category tariff rate schedule. Temporary supply cannot be claimed by a prospective consumer as a matter of right but will normally be arranged by JBVNL when a requisition is made giving due notice subject to technical feasibility and in accordance with electricity supply code issued by the Commission.

3.25 Temporary tariff is proposed to be equivalent to 1.5 times of the applicable fixed and energy charges for temporary connections falling in each prescribed tariff category with all other terms and conditions of tariff remaining the same.

3.26 Temporary connections shall be given prepaid meters with prepaid balance equivalent to 45 days of sale of power which shall be based on the assessment formula (LDHF) prescribed by the Commission.

3.27 Temporary connections shall initially be provided for a period of up to 45 days which can be extended on month to month basis up to six months.

### Metering facility:

3.28 It is proposed that all HTS consumers should have demand recording facility @ 15 minutes time integration. This will enable utility to manage its load profile during power restrictions. This will also enable Petitioner to match the profile/ scheduling with the SLDC/ ERLDC and assist in energy accounting. It may be noted that Regional Energy Accounting (REA) and other power drawal & scheduling are done on 15 minutes time block.

