

**Before the**  
**MAHARASHTRA ELECTRICITY REGULATORY COMMISSION**  
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**Case No. 113 of 2008**

**In the matter of**  
**The Tata Power Company Limited – Distribution Business’ (TPC-D) Petition for**  
**Truing Up for FY 2007-08, Annual Performance Review for FY 2008-09 and**  
**Tariff Determination for FY 2009-10.**

**Shri V. P. Raja, Chairman**  
**Shri A. Velayutham, Member**  
**Shri S. B. Kulkarni, Member**

**CLARIFICATORY ORDER**

**Dated: July 22, 2009**

The Commission, in exercise of the powers vested in it under Section 61 and Section 62 of the Electricity Act, 2003 (EA 2003) and all other powers enabling it in this behalf, and after taking into consideration all the submissions made by TPC-D, all the suggestions and objections of the public, responses of TPC-D, issues raised during the Public Hearing, and all other relevant material, and after review of Annual Performance for FY 2008-09, determined the ARR and Tariff for TPC-D for FY 2009-10 vide its Order dated June 15, 2009 in Case No. 113 of 2008.

In the above-said Order, the Commission has determined the wheeling charges and wheeling losses for utilisation of TPC-D’s wire network as under:

**“5.6 WHEELING CHARGES AND LOSS COMPENSATION**

...

*Approved Wheeling Charges and Wheeling loss at HT and LT level for FY 2009-10 is summarised in the following Table.*

| <b><i>Item Description</i></b> | <b><i>Wheeling Charge<br/>(Rs/kW/month)</i></b> | <b><i>Wheeling Loss (%)</i></b> |
|--------------------------------|---|---------------------------------|
| <i>HT level</i>                | 78  | 0.66%                           |
| <i>LT level</i>                | 160   | 0.66%                           |



Further, in the above-said Order, the Commission had ruled as under:

*“Section 43 of the Electricity Act, 2003 specifies the distribution licensee’s duty to supply on request, within one month of the application being received. Further, in terms of the MERC (Specific Conditions of Distribution Licence applicable to The Tata Power Company Limited) Regulations, 2008, notified by the Commission on August 20, 2008, TPC-D has to comply with all the provisions of the EA 2003 as well as the MERC (General Conditions of Distribution Licence) Regulations, 2006, notified on November 28, 2006. Accordingly, **the Commission directs TPC-D not to discriminate between various consumer categories while providing connections to new consumers, and ensure that the Universal Service Obligations are met. The Commission also directs TPC-D to submit quarterly status report of category-wise applications received for new connections and new connections released by TPC-D, to the Commission. Further, TPC-D should ensure wide publicity periodically to communicate to all categories of consumers in its entire licence area that they can approach TPC-D for availing supply, detailing the procedure and contact addresses, ward-wise, etc., for going about the process of submitting applications, etc.***

*As stated above, TPC-D has proposed a roll-out plan covering only 9 Wards, primarily overlapping with the licence area currently being served primarily by Reliance Infrastructure Limited – Distribution Business (RInfra-D), and no roll out plan has been proposed for the Wards being served primarily by the BEST till FY 2011-12, except one Ward at Wadala. **TPC-D will have to meet its licence obligations in its entire licence area, and cannot pick and choose the Wards wherein it will supply electricity. Moreover, incurring heavy capital expenditure for the network roll-out is not the only option available to TPC-D in its efforts to supply electricity to different consumers in its licence area, and the provisions of the EA 2003 relating to Open Access and the provisions of the MERC (General Conditions of Distribution Licence) Regulations, 2006 relating to use of the distribution network of another distribution licensee, need to be explored by TPC-D, so that the cost is optimised. The Honourable Supreme Court also, in its Judgment on the matter of TPC’s distribution licence, observed that TPC could supply to consumers in its licence area, by utilising the distribution network of the other distribution licensee already present in the area. Hence, incurrence of capex cannot be a condition for meeting the Licensee’s obligations to all the***



*consumers. In fact, the capital costs should be incurred only when there is no better optimal solution.” (emphasis added) (refer Section 2.11, pp 24-25 of the Order)*

*“Section 42 of the EA 2003 and the MERC (Distribution Open Access) Regulations, 2006, specify the framework for supplying to certain consumers through the Open Access route. Also, the MERC (General Conditions of Distribution Licence) Regulations, 2006, specify as under:*

*“8.3.5 The Distribution Licensee shall provide “Non discriminatory Open Access” to the Distribution System (for wheeling of electricity) for use by any Licensee, Generating Companies including Captive Generating Plants or Consumers in accordance with the Regulations made by the Commission for the purpose.*

*8.3.6 The Distribution Licensee shall provide to other licensees the intervening distribution facilities to the extent of surplus capacity available, in his Distribution System in accordance with the Regulations made by the Commission for the purpose or as directed by the Commission and in the event of any dispute as to the availability of the surplus capacity the same shall be determined by the Commission. The charges, terms and conditions for the use of the intervening facilities may be mutually agreed between the Licensees subject to any order made by the Commission for the purpose.”” (refer Section 4.7, page 104 of the Order).*

The objective of the Commission is to ensure that competitive forces are able to work, to achieve the overall objective of reduction in tariffs and improvement in quality of supply and customer service. In this context, the Commission is of the view that there is a need to simplify the levy of wheeling charges and wheeling losses, to facilitate supply of electricity by TPC to consumers, who are currently supplied by RInfra-D, by utilising the wire network of RInfra-D. Based on the data submitted by TPC-D along with the APR Petition for FY 2008-09, the wheeling charges were determined in terms of Rs/kW/month in the above-said Order. In order to operationalise the system and to enable the consumers and distribution licensees to



understand the implications correctly, these Wheeling Charges are now being expressed in terms of Rs/**kWh**. This is because the metering and billing is done on the basis of energy consumed in kWh, and this will facilitate practical implementation of the system. It is clarified that no substantive change has been made to the wheeling charges and the wheeling charges have not been freshly determined.

Approved Wheeling Charges and Wheeling Loss at HT and LT level for FY 2009-10 for TPC-D wire network is summarised in the following Table:

| <b>Item Description</b> | <b>Wheeling Charge<br/>(Rs/kWh)</b> | <b>Wheeling Loss<br/>(%)</b> |
|-------------------------|-------------------------------------|------------------------------|
| HT level                | 0.18                                | 0.66%                        |
| LT level                | 0.37                                | 0.66%                        |

Further, in a Clarificatory Order dated July 22, 2009, issued by the Commission in Case No. 121 of 2008 for RInfra-D, the Commission has clarified as under:

*“Approved Wheeling Charges and Wheeling loss at HT and LT level for FY 2009-10 for RInfra-D wire network is summarised in the following Table:*

| <b>Item Description</b> | <b>Wheeling Charge<br/>(Rs/kWh)</b> | <b>Wheeling Loss (%)</b> |
|-------------------------|-------------------------------------|--------------------------|
| <i>HT level</i>         | <i>0.46</i>                         | <i>1.5%</i>              |
| <i>LT level</i>         | <i>0.88</i>                         | <i>9.0%</i>              |

The Commission is of the view that for the consumers in the Mumbai licence area to benefit from the parallel licensee situation prevailing now, the shift of consumers from one licensee to another needs to be facilitated. Illustrations are provided on the mechanism of levy of base tariff, wire charges and wheeling losses for use of RInfra-D’s wire network by TPC-D for supply to different consumer categories in the Annexures to this Order, so that the consumers can take appropriate decision to their benefit.



The Utilities are directed to not only enable the consumers to exercise their choice easily but also facilitate the same proactively, by allowing the use of their distribution network to the other distribution licensees to implement the Judgment of the Honourable Supreme Court in letter and in spirit.

Sd/-  
(S. B. Kulkarni)  
Member

Sd/-  
(A. Velayutham)  
Member

Sd/-  
(V.P. Raja)  
Chairman



(P.B. Patil)  
Secretary, MERC

**Annexure I: Illustrative Charges in case of shift of LT I Residential Category consumers from RInfra-D to TPC-D**

| SI | Particulars                            | LT I Residential – 100 units/month |  | LT I Residential - 300 units/month |  | LT I Residential - 500 units/month |  | LT I Residential - 700 units/month |  |
|----|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|
|    |  | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added |
| 1  | Consumer Category                      | LT I Residential                   | LT I Residential                                     | LT I Residential                   | LT I Residential                                     | LT I Residential                   | LT I Residential                                     | LT I Residential                   | LT I Residential                                     |
| 2  | Supply Licensee                        | RInfra-D                           | TPC-D  | RInfra-D                           | TPC-D  | RInfra-D                           | TPC-D  | RInfra-D                           | TPC-D  |
| 3  | Distribution/Wire Licensee             | RInfra-D                           | TPC-D + RInfra-D                                     | RInfra-D                           | TPC-D + RInfra-D                                     | RInfra-D                           | TPC-D + RInfra-D                                     | RInfra-D                           | TPC-D + RInfra-D                                     |
| 4  | Sanctioned Load (kW)                   | 5                                  | 5  | 5                                  | 5  | 10                                 | 10   | 10                                 | 10   |
| 5  | Contract Demand (kVA)                  |                                    |  |                                    |  |                                    |  |                                    |  |
| 8  | Average monthly consumption (Units)    | 100                                | 100  | 300                                | 300  | 500                                | 500  | 700                                | 700  |
| 9  | Fixed Charges (Rs/month)               | 30                                 | 30   | 50                                 | 50   | 50                                 | 50   | 100                                | 100  |
| 10 | Demand Charges (Rs/kVA/month)          |                                    |  |                                    |  |                                    |  |                                    |  |
| 11 | Energy Charges (Rs/kWh)                |                                    |  |                                    |  |                                    |  |                                    |  |
|    | 0-100 units                            | <b>2.96</b>                        | <b>1.30</b>  | <b>2.96</b>                        | <b>1.30</b>  | <b>2.96</b>                        | <b>1.30</b>  | <b>2.96</b>                        | <b>1.30</b>  |
|    | 101-300 units                          | 5.56                               | <b>2.70</b>  | <b>5.56</b>                        | <b>2.70</b>  | <b>5.56</b>                        | <b>2.70</b>  | <b>5.56</b>                        | <b>2.70</b>  |
|    | 301-500 units                          | 9.16                               | 4.20   | 9.16                               | <b>4.20</b>  | <b>9.16</b>                        | <b>4.20</b>  | <b>9.16</b>                        | <b>4.20</b>  |
|    | Above 500 units                        | 10.61                              | 4.90   | 10.61                              | 4.90   | 10.61                              | <b>4.90</b>  | <b>10.61</b>                       | <b>4.90</b>  |
| 12 | Wheeling Charge - HT Category (Rs/kWh) |                                    |  |                                    |  |                                    |  |                                    |  |
|    | <i>TPC-D</i>                           | 0.18                               | 0.18   | 0.18                               | 0.18   | 0.18                               | 0.18   | 0.18                               | 0.18   |
|    | <i>RInfra-D</i>                        | 0.46                               | 0.46   | 0.46                               | 0.46   | 0.46                               | 0.46   | 0.46                               | 0.46   |
| 13 | Wheeling Charge - LT Category (Rs/kWh) |                                    |  |                                    |  |                                    |  |                                    |  |



| SI        | Particulars                                   | LT I Residential – 100 units/month |  | LT I Residential - 300 units/month |  | LT I Residential - 500 units/month |  | LT I Residential - 700 units/month |  |
|-----------|---|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|
|           |   | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added |
|           | TPC-D   | 0.37                               | 0.37   | 0.37                               | 0.37   | 0.37                               | 0.37   | 0.37                               | 0.37   |
|           | RInfra-D                                      | 0.88                               | 0.88   | 0.88                               | 0.88   | 0.88                               | 0.88   | 0.88                               | 0.88   |
| 16        | Wheeling Loss - HT Category (%)               |                                    |  |                                    |  |                                    |  |                                    |  |
|           | TPC-D   | 0.66%                              | 0.66%  | 0.66%                              | 0.66%  | 0.66%                              | 0.66%  | 0.66%                              | 0.66%  |
|           | RInfra-D                                      | 1.50%                              | 1.50%  | 1.50%                              | 1.50%  | 1.50%                              | 1.50%  | 1.50%                              | 1.50%  |
| 17        | Wheeling Loss - LT Category (%)               |                                    |  |                                    |  |                                    |  |                                    |  |
|           | TPC-D   | 0.66%                              | 0.66%  | 0.66%                              | 0.66%  | 0.66%                              | 0.66%  | 0.66%                              | 0.66%  |
|           | RInfra-D                                      | 9%                                 | 9%   | 9.00%                              | 9.00%  | 9.00%                              | 9.00%  | 9.00%                              | 9.00%  |
|           | <b>Tariff Payable (Rs/month)</b>              |                                    |  |                                    |  |                                    |  |                                    |  |
| 18        | Units Billable (gross up for wheeling losses) | 100                                | 109.9  | 300                                | 329.7  | 500                                | 549.5  | 700                                | 769.2  |
| 19        | Fixed Charges                                 | 30                                 | 30   | 50                                 | 50   | 50                                 | 50   | 100                                | 100  |
| 20        | Demand Charges                                |                                    |  |                                    |  |                                    |  |                                    |  |
| 21        | Energy Charges                                | 296.00                             | 156.70   | 1408                               | 794.62   | 3240                               | 1752.31  | 5362                               | 2829.23  |
| 22        | Wheeling Charges                              |                                    | 96.70  |                                    | 290.11   |                                    | 483.52   |                                    | 676.92   |
| <b>23</b> | <b>Total Monthly Bill</b>                     | <b>326</b>                         | <b>283.41</b>  | <b>1458</b>                        | <b>1134.73</b>                                       | <b>3290</b>                        | <b>2285.82</b>                                       | <b>5462</b>                        | <b>3606.15</b>                                       |
| <b>24</b> | <b>Average Billing Rate</b>                   | <b>3.26</b>                        | <b>2.83</b>  | <b>4.86</b>                        | <b>3.78</b>  | <b>6.58</b>                        | <b>4.57</b>  | <b>7.80</b>                        | <b>5.15</b>  |
| <b>25</b> | <b>Total Savings (Rs/month)</b>               | <b>0</b>                           | <b>42.59</b>   | <b>0</b>                           | <b>323.27</b>  | <b>0</b>                           | <b>1004.18</b>                                       | <b>0</b>                           | <b>1855.85</b>                                       |
| <b>26</b> | <b>Total Savings (%)</b>                      | <b>0%</b>                          | <b>13%</b>   | <b>0%</b>                          | <b>22%</b>   | <b>0%</b>                          | <b>31%</b>   | <b>0%</b>                          | <b>34%</b>   |

**Note:** The above example has been given only for illustration purposes, with assumed values of consumption and sanctioned load, in order to explain the concept and the above illustration is not to be used for billing purposes



**Annexure II: Illustrative Charges in case of shift of LT II Commercial Category consumers from RInfra-D to TPC-D**

| SI | Particulars                            | LT II Commercial <=20 kW |  | LT II Commercial > 20 kW & <=50 kW |  | LT II Commercial > 50 kW |  |
|----|--|--------------------------|--|------------------------------------|--|--------------------------|--|
|    |  | Continue with RInfra-D   | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D             | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D   | Shift to TPC-D, RInfra whlg chgs & whlg losses added |
| 1  | Consumer Category                      | LT II Commercial (A)     | LT II Commercial (A)                                 | LT II Commercial (B)               | LT II Commercial (B)                                 | LT II Commercial (C)     | LT II Commercial (C)                                 |
| 2  | Supply Licensee                        | RInfra-D                 | TPC-D  | RInfra-D                           | TPC-D  | RInfra-D                 | TPC-D  |
| 3  | Distribution/Wire Licensee             | RInfra-D                 | TPC-D + RInfra-D                                     | RInfra-D                           | TPC-D + RInfra-D                                     | RInfra-D                 | TPC-D + RInfra-D                                     |
| 4  | Sanctioned Load (kW)                   | 20                       | 20   |                                    |  |                          |  |
| 5  | Contract Demand (kVA)                  |                          |  | 50                                 | 50   | 75                       | 75   |
| 8  | Average monthly consumption (Units)    | 350                      | 350  | 4500                               | 4500   | 13500                    | 13500  |
| 9  | Fixed Charges (Rs/month)               | 200                      | 150  |                                    |  |                          |  |
| 10 | Demand Charges (Rs/kVA/month)          |                          |  | 150                                | 150  | 150                      | 150  |
| 11 | Energy Charges (Rs/kWh)                |                          |  |                                    |  |                          |  |
|    | 0-100 units                            |                          |  |                                    |  |                          |  |
|    | 101-300 units                          |                          |  |                                    |  |                          |  |
|    | 301-500 units                          | 7.95                     | 3.85   | 10.26                              | 4.30   | 10.91                    | 4.65   |
|    | Above 500 units                        |                          |  |                                    |  |                          |  |
| 12 | Wheeling Charge - HT Category (Rs/kWh) |                          |  |                                    |  |                          |  |
|    | TPC-D                                  | 0.18                     | 0.18   | 0.18                               | 0.18   | 0.18                     | 0.18   |
|    | RInfra-D                               | 0.46                     | 0.46   | 0.46                               | 0.46   | 0.46                     | 0.46   |
| 13 | Wheeling Charge - LT Category (Rs/kWh) |                          |  |                                    |  |                          |  |
|    | TPC-D                                  | 0.37                     | 0.37   | 0.37                               | 0.37   | 0.37                     | 0.37   |
|    | RInfra-D                               | 0.88                     | 0.88   | 0.88                               | 0.88   | 0.88                     | 0.88   |
| 16 | Wheeling Loss - HT Category (%)        |                          |  |                                    |  |                          |  |





| SI        | Particulars                                   | LT II Commercial <=20 kW |  | LT II Commercial > 20 kW & <=50 kW |  | LT II Commercial > 50 kW |  |
|-----------|---|--------------------------|--|------------------------------------|--|--------------------------|--|
|           |   | Continue with Rlnfra-D   | Shift to TPC-D, Rlnfra whlg chgs & whlg losses added | Continue with Rlnfra-D             | Shift to TPC-D, Rlnfra whlg chgs & whlg losses added | Continue with Rlnfra-D   | Shift to TPC-D, Rlnfra whlg chgs & whlg losses added |
|           | TPC-D   | 0.66%                    | 0.66%  | 0.66%                              | 0.66%  | 0.66%                    | 0.66%  |
|           | Rlnfra-D                                      | 1.50%                    | 1.50%  | 1.50%                              | 1.50%  | 1.50%                    | 1.50%  |
| 17        | Wheeling Loss - LT Category (%)               |                          |  |                                    |  |                          |  |
|           | TPC-D   | 0.66%                    | 0.66%  | 0.66%                              | 0.66%  | 0.66%                    | 0.66%  |
|           | Rlnfra-D                                      | 9.00%                    | 9.00%  | 9.00%                              | 9.00%  | 9.00%                    | 9.00%  |
|           | <b>Tariff Payable (Rs/month)</b>              |                          |  |                                    |  |                          |  |
| 18        | Units Billable (gross up for wheeling losses) | 350                      | 384.6  | 4500                               | 4945.1   | 13500                    | 14835.2  |
| 19        | Fixed Charges                                 | 200                      | 150  | 0                                  | 0  | 0                        | 0  |
| 20        | Demand Charges                                |                          |  | 7500                               | 7500   | 11250                    | 11250  |
| 21        | Energy Charges                                | 2782.5                   | 1480.77  | 46170                              | 21263.74   | 147285                   | 68983.52   |
| 22        | Wheeling Charges                              |                          | 338.46   |                                    | 4351.65  |                          | 13054.95   |
| <b>23</b> | <b>Total Monthly Bill</b>                     | <b>2982.5</b>            | <b>1969.23</b>                                       | <b>53670</b>                       | <b>33115.38</b>                                      | <b>158535</b>            | <b>93288.46</b>                                      |
| <b>24</b> | <b>Average Billing Rate</b>                   | <b>8.52</b>              | <b>5.63</b>  | <b>11.93</b>                       | <b>7.36</b>  | <b>11.74</b>             | <b>6.91</b>  |
| <b>25</b> | <b>Total Savings (Rs/month)</b>               | <b>0</b>                 | <b>1013.27</b>                                       | <b>0</b>                           | <b>20554.62</b>                                      | <b>0</b>                 | <b>65246.54</b>                                      |
| <b>26</b> | <b>Total Savings (%)</b>                      | <b>0%</b>                | <b>34%</b>   | <b>0%</b>                          | <b>38%</b>   | <b>0%</b>                | <b>41%</b>   |

**Note:** The above example has been given only for illustration purposes, with assumed values of consumption and sanctioned load/Contract Demand, in order to explain the concept and the above illustration is not to be used for billing purposes



**Annexure III: Illustrative Charges in case of shift of LT III and LT IV Industry Category consumers from RInfra-D to TPC-D**

| SI | Particulars                            | LT III Industrial <= 20 kW |  | LT IV Industrial > 20 kW |  |
|----|--|----------------------------|--|--------------------------|--|
|    |  | Continue with RInfra-D     | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D   | Shift to TPC-D, RInfra whlg chgs & whlg losses added |
| 1  | Consumer Category                      | LT III Industrial          | LT III Industrial                                    | LT IV Industrial         | LT IV Industrial                                     |
| 2  | Supply Licensee                        | RInfra-D                   | TPC-D  | RInfra-D                 | TPC-D  |
| 3  | Distribution/Wire Licensee             | RInfra-D                   | TPC-D + RInfra-D                                     | RInfra-D                 | TPC-D + RInfra-D                                     |
| 4  | Sanctioned Load (kW)                   | 20                         | 20   |                          |  |
| 5  | Contract Demand (kVA)                  |                            |  | 40                       | 40   |
| 8  | Average monthly consumption (Units)    | 800                        | 800  | 9000                     | 9000   |
| 9  | Fixed Charges (Rs/month)               | 200                        | 150  |                          |  |
| 10 | Demand Charges (Rs/kVA/month)          |                            |  | 150                      | 150  |
| 11 | Energy Charges (Rs/kWh)                |                            |  |                          |  |
|    | 0-100 units                            |                            |  |                          |  |
|    | 101-300 units                          | 7.76                       | 4.10   | 7.41                     | 4.60   |
|    | 301-500 units                          |                            |  |                          |  |
|    | Above 500 units                        |                            |  |                          |  |
| 12 | Wheeling Charge - HT Category (Rs/kWh) |                            |  |                          |  |
|    | TPC-D                                  | 0.18                       | 0.18   | 0.18                     | 0.18   |
|    | RInfra-D                               | 0.46                       | 0.46   | 0.46                     | 0.46   |
| 13 | Wheeling Charge - LT Category (Rs/kWh) |                            |  |                          |  |
|    | TPC-D                                  | 0.37                       | 0.37   | 0.37                     | 0.37   |
|    | RInfra-D                               | 0.88                       | 0.88   | 0.88                     | 0.88   |
| 16 | Wheeling Loss - HT Category (%)        |                            |  |                          |  |
|    | TPC-D                                  | 0.66%                      | 0.66%  | 0.66%                    | 0.66%  |
|    | RInfra-D                               | 1.50%                      | 1.50%  | 1.50%                    | 1.50%  |



| SI        | Particulars                                   | LT III Industrial <= 20 kW |  | LT IV Industrial > 20 kW |  |
|-----------|---|----------------------------|--|--------------------------|--|
|           |   | Continue with RInfra-D     | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D   | Shift to TPC-D, RInfra whlg chgs & whlg losses added |
| 17        | Wheeling Loss - LT Category (%)               |                            |  |                          |  |
|           | <i>TPC-D</i>                                  | 0.66%                      | 0.66%  | 0.66%                    | 0.66%  |
|           | <i>RInfra-D</i>                               | 9.00%                      | 9.00%  | 9.00%                    | 9.00%  |
|           |   |                            |  |                          |  |
|           | <b>Tariff Payable (Rs/month)</b>              |                            |  |                          |  |
| 18        | Units Billable (gross up for wheeling losses) | 800                        | 879.1  | 9000                     | 9890.1   |
| 19        | Fixed Charges                                 | 200                        | 150  | 0                        | 0  |
| 20        | Demand Charges                                |                            |  | 6000                     | 6000   |
| 21        | Energy Charges                                | 6208                       | 3604.40  | 66690                    | 45494.51   |
| 22        | Wheeling Charges                              |                            | 773.63   |                          | 8703.30  |
| <b>23</b> | <b>Total Monthly Bill</b>                     | <b>6408</b>                | <b>4528.02</b>                                       | <b>72690</b>             | <b>60197.80</b>                                      |
| <b>24</b> | <b>Average Billing Rate</b>                   | <b>8.01</b>                | <b>5.66</b>  | <b>8.08</b>              | <b>6.69</b>  |
| <b>25</b> | <b>Total Savings (Rs/month)</b>               | <b>0</b>                   | <b>1879.98</b>                                       | <b>0</b>                 | <b>12492.20</b>                                      |
| <b>26</b> | <b>Total Savings (%)</b>                      | <b>0%</b>                  | <b>29%</b>   | <b>0%</b>                | <b>17%</b>   |

**Note:** The above example has been given only for illustration purposes, with assumed values of consumption and sanctioned load/Contract Demand, in order to explain the concept and the above illustration is not to be used for billing purposes



**Annexure IV: Illustrative Charges in case of shift of HT I (Industry), HT II (Commercial) and HT III (Group Housing Society)  
Category consumers from RInfra-D to TPC-D**

| SI | Particulars                            | HT I Industry          |  | HT II Commercial       |  | HT III Group Housing Society |  |
|----|--|------------------------|--|------------------------|--|------------------------------|--|
|    |  | Continue with RInfra-D | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D | Shift to TPC-D, RInfra whlg chgs & whlg losses added | Continue with RInfra-D       | Shift to TPC-D, RInfra whlg chgs & whlg losses added |
| 1  | Consumer Category                      | HT I Industry          | HT I Industry  | HT II Commercial       | HT II Commercial                                     | HT III Grp Hsg Soc           | HT III Grp Hsg Soc                                   |
| 2  | Supply Licensee                        | RInfra-D               | TPC-D  | RInfra-D               | TPC-D  | RInfra-D                     | TPC-D  |
| 3  | Distribution/Wire Licensee             | RInfra-D               | TPC-D + RInfra-D                                     | RInfra-D               | TPC-D + RInfra-D                                     | RInfra-D                     | TPC-D + RInfra-D                                     |
| 4  | Sanctioned Load (kW)                   |                        |  |                        |  |                              |  |
| 5  | Contract Demand (kVA)                  | 475                    | 475  | 550                    | 550  | 400                          | 400  |
| 8  | Average monthly consumption (Units)    | 225000                 | 225000   | 150000                 | 150000   | 150000                       | 150000   |
| 9  | Fixed Charges (Rs/month)               |                        |  |                        |  |                              |  |
| 10 | Demand Charges (Rs/kVA/month)          | 150                    | 150  | 150                    | 150  | 150                          | 150  |
| 11 | Energy Charges (Rs/kWh)                |                        |  |                        |  |                              |  |
|    | 0-100 units                            |                        |  |                        |  |                              |  |
|    | 101-300 units                          | 7.56                   | 4.10   | 8.41                   | 4.35   | 5.16                         | 3.80   |
|    | 301-500 units                          |                        |  |                        |  |                              |  |
|    | Above 500 units                        |                        |  |                        |  |                              |  |
| 12 | Wheeling Charge - HT Category (Rs/kWh) |                        |  |                        |  |                              |  |
|    | TPC-D                                  | 0.18                   | 0.18   | 0.18                   | 0.18   | 0.18                         | 0.18   |
|    | RInfra-D                               | 0.46                   | 0.46   | 0.46                   | 0.46   | 0.46                         | 0.46   |
| 13 | Wheeling Charge - LT Category (Rs/kWh) |                        |  |                        |  |                              |  |
|    | TPC-D                                  | 0.37                   | 0.37   | 0.37                   | 0.37   | 0.37                         | 0.37   |
|    | RInfra-D                               | 0.88                   | 0.88   | 0.88                   | 0.88   | 0.88                         | 0.88   |



| SI        | Particulars                                   | HT I Industry          |  | HT II Commercial       |  | HT III Group Housing Society |  |
|-----------|---|------------------------|--|------------------------|--|------------------------------|--|
|           |   | Continue with Rlnfra-D | Shift to TPC-D, Rlnfra whlg chgs & whlg losses added | Continue with Rlnfra-D | Shift to TPC-D, Rlnfra whlg chgs & whlg losses added | Continue with Rlnfra-D       | Shift to TPC-D, Rlnfra whlg chgs & whlg losses added |
| 16        | Wheeling Loss - HT Category (%)               |                        |  |                        |  |                              |  |
|           | TPC-D   | 0.66%                  | 0.66%  | 0.66%                  | 0.66%  | 0.66%                        | 0.66%  |
|           | Rlnfra-D                                      | 1.50%                  | 1.50%  | 1.50%                  | 1.50%  | 1.50%                        | 1.50%  |
| 17        | Wheeling Loss - LT Category (%)               |                        |  |                        |  |                              |  |
|           | TPC-D   | 0.66%                  | 0.66%  | 0.66%                  | 0.66%  | 0.66%                        | 0.66%  |
|           | Rlnfra-D                                      | 9.00%                  | 9.00%  | 9.00%                  | 9.00%  | 9.00%                        | 9.00%  |
|           | <b>Tariff Payable (Rs/month)</b>              |                        |  |                        |  |                              |  |
| 18        | Units Billable (gross up for wheeling losses) | 225000                 | 228426.4   | 150000                 | 152284.3   | 150000                       | 152284.3   |
| 19        | Fixed Charges                                 | 0                      | 0  | 0                      | 0  | 0                            | 0  |
| 20        | Demand Charges                                | 71250                  | 71250  | 82500                  | 82500  | 60000                        | 60000  |
| 21        | Energy Charges                                | 1701000                | 936548.22  | 1261500                | 662436.55  | 774000                       | 578680.20  |
| 22        | Wheeling Charges                              |                        | 105076.14  |                        | 70050.76   |                              | 70050.76   |
| <b>23</b> | <b>Total Monthly Bill</b>                     | <b>1772250</b>         | <b>1112874.37</b>                                    | <b>1344000</b>         | <b>814987.31</b>                                     | <b>834000</b>                | <b>708730.96</b>                                     |
| <b>24</b> | <b>Average Billing Rate</b>                   | <b>7.88</b>            | <b>4.95</b>  | <b>8.96</b>            | <b>5.43</b>  | <b>5.56</b>                  | <b>4.72</b>  |
| <b>25</b> | <b>Total Savings (Rs/month)</b>               | <b>0</b>               | <b>659375.63</b>                                     | <b>0</b>               | <b>529012.69</b>                                     | <b>0</b>                     | <b>125269.04</b>                                     |
| <b>26</b> | <b>Total Savings (%)</b>                      | <b>0%</b>              | <b>37%</b>   | <b>0%</b>              | <b>39%</b>   | <b>0%</b>                    | <b>15%</b>   |

**Note:** The above example has been given only for illustration purposes, with assumed values of consumption and Contract Demand, in order to explain the concept and the above illustration is not to be used for billing purposes

