

**SMALL HYDRO**

| Description   | CERC                       | Arunachal Pradesh | Assam                     | Chhattisgarh  | Gujarat*            | Haryana                       | J & K           | Karnataka*   | Kerala                            | Madhya Pradesh | Maharashtra    | Manipur        | Meghalaya      | Mizoram        | Nagaland    | Sikkim         | Tripura                               | Uttarakhand                           | Uttar Pradesh |  |
|---|----------------------------|-------------------|---------------------------|---|---------------------|-------------------------------|-----------------|--------------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|-------------|----------------|---------------------------------------|---------------------------------------|---------------|--|
| <b>Regulation</b>                                       | 2017                       | 2018              | 2017                      | (draft)2017   | Order No.-5 of 2016 | 2010                          | 2013            | 2018         | 2015                              | 2017           | 2015           | 2010           | 2014           | 2010           | 2011        | 2012           | 2015                                  | 2013                                  |               |  |
| <b>Dated</b>  | 17.04.2017                 | 21-5-2018         | 04.09.2018                | 4.7.2017  |                     | 03-02-2011                    | 17.05.2013      | 14.05.2015   | 11.11.2015                        | 06.07.2017     | 10.11.2015     | 31.05.2010     | 11.11.2014     | 31.05.2010     | 30.08.2011  | 28.06.2012     | 16.10.2015                            | 15.04.2013                            |               |  |
| <b>Last Amendment</b>                                   | na                         | na                | na                        | na  | na                  | 5.10.2016                     | 20.04.2016      | na           | 02.10.2017                        | na             | 04.01.2017     | 08.08.2014     | na             | 08.08.2014     | na          | na             | 28.09.2016                            | 08.09.2017                            |               |  |
| <b>Tariff Period (Yrs)</b>                              | 35                         | 35                | 35                        | 13(COD after April 2012)<br>5(COD before April 2012) 35 |                     | 35                            | 35              |              | 35                                | 35             | 35             | 35             | 35             | 35             | 35          | 35             | 35 Yrs(below 5 MW)<br>13 Yrs (5-25MW) | 35                                    |               |  |
| <b>Control Period(yrs)</b>                              | 3                          | 3                 | 3                         | 3   |                     |                               | 5               |              | 5                                 | 5              | 5              | 5              | 3              | 5              | 3           | 3              | 5                                     | 5                                     |               |  |
| (i) 1st Control Period                                  |                            |                   |                           |   |                     |                               | 3(from 2011-12) |              |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| (ii) 2nd Control Period                                 |                            |                   |                           |   |                     |                               | 4(from 2013-14) |              |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| <b>w.e.f.</b>   | 2017-18                    | 2018-19           | 2017-18                   | 2018-19   | 2016                |                               | 2013-14         | 2018         | 2014                              | 2017-18        | 2019-20        | 2012-13        | 2014           | 2012-13        | 2011        | 2012           | 2015                                  | 2013-14                               |               |  |
| <b>Useful Life (Yrs)</b>                                | 35                         | 35                | 35                        | 35  | 35                  | 35                            | 35              | 35           | 35                                | 35             | 35             | 35             | 35             | 35             | 35          | 35             | 35                                    | 35                                    |               |  |
| <b>Finanacial Parametres</b>                            |                            |                   |                           |   |                     |                               |                 |              |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| <b>Capital Cost (Rs. Lakh/MW)</b>                       |                            |                   |                           |   |                     |                               |                 | 633          |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| below 5MW   | 1000*<br>779(other states) | 1400              | 1000                      | 779   | 820                 | 550                           | 770             |              | 646.755 (2016-17)                 | 650            | 605.28         | 770            | 770            | 770            | 635         | 770            | 850                                   | 785                                   |               |  |
| 5MW-25MW  | 900*<br>707(other states)  | 1200              | 900                       | 707   | 748                 | 500                           | 700             |              | 592.586(2015-16)                  | 635            | 550.7          | 700            | 700            | 700            | 571         | 700            | 775                                   | 750(for 5MW-15MW),<br>715(15MW-25MW)  |               |  |
| <b>Debt Equity Ratio</b>                                | 70:30                      | 70:30             | 70:30                     | 70:30   | 70:30               | 70:30                         | 70:30           | 70:30        | 70:30                             | 70:30          | 70:30          | 70:30          | 70:30          | 70:30          | 70:30       | 70:30          | 70:30                                 | 70:30                                 |               |  |
| <b>Loan Tenure(Yrs)</b>                                 | 13                         | 13                | 13                        | 13  | 10                  | 10                            | 12              |              | 12                                | 10             | 12             | 12             | 12             | 12             | 10          | 12             | 12                                    | 12                                    |               |  |
| <b>Interest rate on loan capital (SBI basis points)</b> | 200                        | 200               | 200                       | 200   | 11.40%              | det. by Com.                  | 300             | 10.50%       | 12.76%                            | det. by Com.   | 300            | 300            | 150            | 300            | 150         | 150            | 300                                   | 350                                   |               |  |
| <b>Depreciation</b>                                     |                            |                   |                           |   |                     |                               |                 |              |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| (i)Starting Years                                       | 5.28%(13yrs)               | 5.28%(13yrs)      | 5.28%(13yrs)              | 5.28%(13yrs)  | 7% (10 yrs)         | 7% (10 yrs)                   | 5.83%(12yrs)    | 5.83%(13yrs) | 5.83%(12yrs)                      | 7% (10 Yrs)    | 5.83% (12 Yrs) | 5.83% (12 Yrs) | 5.83% (12 Yrs) | 5.83% (12 Yrs) | 7% (10 Yrs) | 5.83% (12 Yrs) | 5.83% (12 Yrs)                        | 5.83% (12 Yrs)                        |               |  |
| (ii)Remaining Years                                     |                            |                   |                           |   | 0.8% (11-35yrs)     |                               |                 |              | 0.87%                             |                |                |                |                |                |             |                |                                       |                                       |               |  |
| Salvage Value(%)  | 10%                        | 10%               | 10%                       | 10%   |                     |                               | 10%             |              |                                   |                |                | 10%            | 10%            | 10%            |             | 10%            | 10%                                   | 10%                                   |               |  |
| Max Depreciation (% of capital cost)                    | 90%                        | na                | 90%                       | 90%   |                     | 90%                           | 90%             |              |                                   |                |                | 90%            | 90%            | 90%            |             | 90%            | 90%                                   | 90%                                   |               |  |
| <b>Return on Equity</b>                                 |                            |                   |                           |   |                     |                               |                 |              |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| Value base of Cap. Cost                                 | 30%                        | 30%               | 30%                       | 30%   |                     | 30%                           | 30%             |              |                                   |                | 30%            |                |                |                |             | 30%            | 30%                                   | 30%                                   |               |  |
| % Normative ROE   | 14%                        | 14%               | 14%                       | 14%   | 14%                 | 16%                           |                 | 14%          | 14%(post-tax)                     | 20%            | 16%            |                | 16%            |                |             |                |                                       |                                       |               |  |
| For 1st 10 years  |                            |                   |                           |   |                     |                               | 18%             |              | 20%                               |                |                | 20%            |                | 20%            | 19%         | 20%            | 20%                                   | 20%                                   |               |  |
| After 10 years  |                            |                   |                           |   |                     |                               | 22%             |              | 24%                               |                |                | 24%            |                | 24%            | 24%         | 24%            | 24%                                   | 24%                                   |               |  |
| <b>O&amp;M Expenses (Rs Lakh/MW)</b>                    |                            |                   |                           |   |                     |                               |                 | 14.66        |                                   | 3% of C.C.     |                |                |                |                |             |                |                                       |                                       |               |  |
| below 5 MW  | 36*<br>29(other states)    | 38.06             | 36                        | 29  | 3.3% of C.C.        | 17                            | 25              |              | 24.985(2016-17)                   |                | 3.60% of C.C.  | 25             | 23.47          | 25             | 22.2        | 18.00          | 30                                    | 35.33                                 |               |  |
| 5MW-25MW  | 27*<br>21(other states)    | 28.54             | 27                        | 21  | 2.5% of C.C.        | 12                            | 18              |              | 16.54(2015-16)                    |                | 2.80% of C.C.  | 18             | 16.77          | 18             | 15.86       | 24.00          | 21.60                                 | 30(for 5MW-15MW),<br>25.03(15MW-25MW) |               |  |
| <b>Escalation (%) p.a</b>                               | 5.72%                      | 5.72%             | 5.72%                     | 5.72%   | 5.72%               | 5.72%                         | 5.72%           | 5.72%        | 5.72%                             | 5.72%          |                | 5.72%          | 5.72%          | 5.72%          | 5.72%       | 5.72%          | 5.72%                                 | 5.72%                                 |               |  |
| <b>Interest on Working Capital (SBI basis points)</b>   | 300                        | 300               | 300                       | 300   | 11.40%              | 300                           | 350             | 11.50%       | 13.26%(for 5 MW), 13.50%(5-25 MW) | det. by Com.   | 350            | 350            | 100            | 350            | 100         | 350            | 350                                   | 350                                   |               |  |
| <b>Normative Parameters</b>                             |                            |                   |                           |   |                     |                               |                 |              |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| <b>PLF/CUF(%)</b>                                       | 45%*<br>30%(other states)  | 45%               | 45%                       | 30%   | 42%                 | 56%(below 5 MW), 30% (5-25MW) | 45%             | 30%          | 30%                               | 30%            | 30%            | 45%            | 45%            | 45%            | 30%         | 45%            | 45%                                   | 40%                                   |               |  |
| <b>Aux. Consumption (%)</b>                             | 1%                         | 1%                | 1%                        | 1%  | 1%                  | 1%                            | 1%              |              | 1%                                | 1%             | 1%             | 1%             | 1%             | 1%             | 1%          | 1%             | 1%                                    | 1%                                    |               |  |
| <b>Rebate</b>   |                            |                   |                           |   |                     |                               |                 |              |                                   |                |                |                |                |                |             |                |                                       |                                       |               |  |
| <b>Through LoC (%)</b>                                  | 2%                         | 2%                | 2%                        | 2%  |                     | 2%                            | 2%              |              |                                   |                | 2%             | 2%             | 2%             | 2%             | 2%          | 2%             | 2%                                    | 2%                                    |               |  |
| <b>other than LoC within one month (%)</b>              | 1%                         | 1%                | 1%                        | 1%  |                     | 1%                            | 1%              |              |                                   |                | 1%             | 1%             | 1%             | 1%             | 1%          | 1%             | 1%                                    | 1%                                    |               |  |
| <b>Late Payment Surcharge(%) Beyond 60 days</b>         | 1.25%                      | 1.25%             | 1.25%<br>(beyond 30 days) | 1.25%   |                     | 1.25%                         | 1.25%           |              |                                   |                | 1.25%          | 1.25%          | 1.25%          | 1.25%          | 1.25%       | 1.25%          | 1.25%                                 | 1.25%                                 |               |  |

**Old Small Hydro Projects, Total Tariff for FY 2018-19, Year of Commissioning, FY 2005-06: 1.49; FY 2006-07: 1.58, FY 2007-08: 1.58, FY 2008-09: 1.63**  
**New Small Hydro Projects upto 5 MW Total Tariff for FY 2018-19 Year of Commissioning, FY 2014-15: 5.14, FY 2015-16: 5.45, FY 2016-17: 5.73, FY 2017-18: 6.11, FY 2018-19: 6.47**  
**New Small Hydro Projects 5 MW-25 MW Total Tariff for FY 2018-19 Year of Commissioning, FY 2014-15: 4.47, FY 2015-16: 4.75, FY 2016-17: 5.05, FY 2017-18: 5.36, FY 2018-19: 5.68**

Remark: '\*' Notified Tariff Order