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संयुक्त विद्युत विनियामक आयोग  
(गोवा राज्य और संघ शासित क्षेत्रों के लिए)

अधिसूचना

गोवा, 24 जून, 2014

विनियम 2014

**JOINT ELECTRICITY REGULATORY COMMISSION**  
(For the State of Goa and Union Territories)

**NOTIFICATION**

Goa, the 24th June, 2014

**Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Demand Side Management) Regulations, 2014**

**No. JERC-17/2014.**—Joint Electricity Regulatory Commission, in exercise of the powers conferred by clause (zp) of Sub-section (2) of Section 181 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, after previous publication, hereby makes the following regulations namely Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Demand Side Management) Regulations, 2014.

**Chapter I: General**

**1. Short Title, extent and Commencement**

- 1.1. These Regulations may be called the “Joint Electricity Regulatory Commission For the State of Goa and Union Territories (Demand Side Management) Regulations, 2014”.
- 1.2. These Regulations shall be applicable to the Distribution Licensees in the State of Goa and Union Territories of Andaman & Nicobar Islands, Chandigarh, Dadra & Nagar Haveli, Daman and Diu, Lakshadweep, Puducherry in their respective areas of supply.
- 1.3. These Regulations shall come into force from the date of their publication in the Official Gazette.

**2. Definitions**

- 2.1. In these Regulations, unless the context otherwise requires –
  - i. “Act” means the Electricity Act, 2003 (36 of 2003);
  - ii. “Baseline data” means the initial base level consumption and/or demand for electricity before a DSM programme begins to provide a starting point for comparison for assessing programme impact;
  - iii. “Bureau” or “BEE” means the Bureau of Energy Efficiency established under sub-section (1) of Section 2 of The Energy Conservation Act, 2001;
  - iv. “Commission” means the Joint Electricity Regulatory Commission constituted under Section 83 of the Act;
  - v. “Cost Effectiveness Index” means an indicator of the attractiveness of any investment in DSM programme;
  - vi. “Demand Side Management or DSM” means the actions of a Distribution Licensee, beyond the consumer’s meter, with the objective of altering the end-use of electricity - whether it is to decrease it, or to shift it between high and low peak periods, or manage it when there are intermittent load demands - in the overall interests of reducing Distribution Licensee costs.
  - vii. “DSM Resource Acquisition” means a mechanism to implement DSM projects through customers, Energy Service Companies and Non-Government Organizations for the resultant energy and load reductions.
  - viii. “Energy Services Company” means a company which is in the business of providing energy efficient and load management equipment and/or services to end-user consumers and is approved by Bureau.
  - ix. “Evaluation, Measurement and Verification” means activities which evaluate, measure and verify performance or other aspects of DSM/energy efficiency programs or their market environment.
  - x. “Monitoring and Reporting” means activities which monitor and evaluate the progress of DSM/energy efficiency programs of the Distribution Licensee.
- 1.1. “Multi Year Tariff Regulations” or “MYT Regulations” means the Joint Electricity Regulatory Commission (Multi Year Tariff Regulations), 2014.

**Chapter II: DSM Objectives, targets and guidelines**

**3. DSM Objectives**

- 3.1. The objectives are power shortage mitigation, seasonal peak reduction, cost effective energy savings, lowering the cost of electricity, reduction in emissions of greenhouse gases and any other objective, which may be stipulated by the Commission from time-to-time. These shall be considered by the Licensees in the advancement and implementation of cost effective DSM initiatives in the State of Goa and the Union Territories.
- 3.2. While formulating any new DSM Objectives, the Commission may take into consideration the National DSM Objectives/ Plans formulated by BEE, if any.

4. **Assessment of technical potential for DSM**
  - 4.1. The Distribution Licensee in the State of Goa and Union Territories shall carry out assessment of potential for DSM in their respective area one year before the start of every Multi-Year-Tariff Control Period. Notwithstanding any of the above provisions & the first assessment of technical potential for DSM shall be carried out within six months of the notification of these Regulations.
  - 4.2. Distribution Licensee shall be guided by methodology developed by Bureau or BEE while assessing the technical potential for DSM.
5. **DSM Targets**
  - 5.1. The Distribution Licensee shall propose to the Commission, the DSM targets to be achieved by them in their respective area of supply.
  - 5.2. While approving DSM target for the Distribution Licensee, the Commission will give due consideration to factors such as consumer mix, load profile etc.
  - 5.3. Examples of DSM targets may include the following:
    - i. Percentage reductions in load growth;
    - ii. Savings in KW, kWh;
    - iii. Savings as a percent of total resources to meet load;
    - iv. Flattening of load curve-daily as well as seasonal.
  - 5.4. While approving the targets, the Commission will consider the technical potential in the State/UT as assessed by the Distribution Licensee.
6. **Guidelines on DSM process**
  - 6.1. The Commission may issue guidelines from time-to-time to guide the Distribution Licensee in execution of the following activities:
    - i. Load and market research.
    - ii. Implementation of DSM programmes;
    - iii. Cost Effectiveness Assessment of DSM programmes;
    - iv. Monitoring and Reporting of DSM Plans and programmes;
    - v. Eligibility criteria for DSM programmes;
    - vi. Methodology for setting DSM targets and funding levels;
    - vii. Database development framework.
  - 6.2. Issuance of such guidelines shall not be a pre-requisite for preparation and submission of the first DSM plan by the Distribution Licensee.

#### Chapter III: DSM Cell

7. **Constitution of DSM Cell, its role & responsibilities**
  - 7.1. Every Distribution Licensee shall, constitute DSM Cell within one month of notification of these regulations.
  - 7.2. The DSM Cell so constituted shall be provided with necessary authority and resources so as to execute the functions assigned to it under these Regulations.
  - 7.3. The DSM Cell shall be responsible for:
    - i. Load research and development of baseline data;
    - ii. Formulation of DSM Plan;
    - iii. Design and development of DSM projects including cost benefit analysis, plans for implementation, monitoring & reporting and for measurement & verification;
    - iv. Seeking necessary approvals to DSM Plan and individual programmes;
    - v. Implementation of DSM programmes and its periodic monitoring & reporting;
    - vi. Any other function that may be assigned by the Commission from time-to-time.

#### Chapter IV: DSM Process

8. **Load and market research and development of baseline data**
  - 8.1. Distribution Licensee shall undertake load research to identify the target consumer segment/s and end uses for DSM programmes to build the necessary database.
  - 8.2. Distribution Licensee shall undertake market research to estimate market potential for specific energy efficiency technologies and applications, establish key performance indicators and determine existing baseline market conditions.
  - 8.3. On the basis of the results of load and market research, the Distribution Licensee shall develop baseline data for its area of supply.
  - 8.4. Distribution Licensee shall design, develop and implement the initial few DSM programmes on the basis of available data and studies completed by BEE till the complete baseline data is available for its area of supply and establishment of base line data shall not be a pre-requisite for design of such initial DSM programmes by the Distribution Licensee.



**9. Formulation of DSM Plan**

9.1. Distribution Licensee shall formulate and submit to the Commission a perspective DSM Plan covering entire period of the control period, within one year of notification of these regulations. The Plan shall include:

- i. An overall goal for DSM Plan;
- ii. Description of DSM programmes to form a part of DSM Plan;
- iii. Implementation process and schedule of each programme in the plan as a whole;
- iv. Plan for Monitoring and Reporting;
- v. Indicative cost effectiveness assessment of programmes.

Notwithstanding anything above, the first DSM Plan shall be prepared within one year of the date of these Regulations and shall be for the period till the end of ongoing MYT Control Period.

9.2. The Distribution Licensee shall include all relevant DSM programmes (including multi-state programmes) developed by Bureau in its perspective plan as and when such programmes are announced by Bureau.

9.3. The Distribution Licensee shall submit on rolling basis, an annual plan, not inconsistent with the perspective plan, for upcoming year, along with the Annual Performance Review.

9.4. Selection and prioritisation of various DSM programmes in the DSM Plan shall be guided by the following factors:

- i. The Cost effectiveness of the proposed DSM scheme;
- ii. DSM Objectives identified in Regulation 3;
- iii. Whether the proposed programmes supplement National level efforts adopted by the Bureau;
- iv. Programmes with high visibility and therefore, potential for creation of awareness within consumers.

**10. Commission review and approval of DSM plan**

10.1. Distribution Licensee shall submit the DSM Plan to the Commission for approval at least three months before the start date of the next MYT period.

10.2. The Commission may adopt procedures as specified in the Conduct of Business Regulations for according approval to the DSM Plan.

**11. Preparation of DSM Programme Document**

11.1. For each DSM programme included in the DSM Plan, a detailed description shall be provided in a separate Programme Document. The description shall include general information, technology, schedule for deployment, budget, cost effectiveness assessment, detailed implementation plan and estimation of savings etc.

11.2. For each DSM programme cost benefit analysis shall be carried out by the Distribution Licensee.

**12. Approval of DSM Programme Document**

12.1. Prior to implementing any DSM programme, Distribution Licensee must obtain approval of the Commission.

12.2. Each Programme Document shall include the following:

- i. Description of the programme;
- ii. Objectives and rationale for the programme;
- iii. Consumer segments and estimated level of participation;
- iv. Estimate of baseline parameters;
- v. Assessment of programme in line with Cost Effectiveness Guidelines issued by the Commission;
- vi. Mechanism for recovery of cost and performance incentives;
- vii. Marketing, delivery strategy and Implementation schedule;
- viii. Implementation mechanism e.g. Energy Service Companies, DSM Bidding, DSM Resource Acquisition, etc.
- ix. Monitoring and evaluation plan;
- x. Plan for Training/Seminars/Workshops for increasing consumer awareness.

12.3. The Commission will approve a DSM program if it is in line with the Objectives set out in Section 3 of the Regulations. The Commission may direct modifications to proposed or on-going programmes to ensure consistency with the DSM Objectives. However, the Commission shall allow Distribution Licensee adequate time to notify consumers of program modification.

**13. Implementation of DSM programmes**

13.1. Distribution Licensee shall undertake implementation of DSM programmes in line with the guidelines issued by the Commission from time to time.

13.2. The implementation of the programme shall be undertaken in the manner as approved by the Commission.

13.3. Distribution Licensee shall undertake implementation of quick gain DSM programmes.

13.4. Distribution Licensee shall carry out implementation of activities assigned to it either by itself or through engagement of appropriate independent entity.

While doing so, the Distribution Licensee shall ensure that continuity and consistency is maintained and interest of the consumers is not compromised.

**14. Mechanism for Cost Recovery**

- 14.1. Distribution Licensee shall identify the net incremental costs, if any, associated with planning, design and implementation of programmes.
- 14.2. Distribution Licensee may propose methodology for recovery of net incremental costs through tariff change or any other mechanism.
- 14.3. In order to qualify for cost recovery, each program must be
  - i. Approved prior to implementation;
  - ii. Implemented in accordance with the approved program plan; and
  - iii. Implemented cost effectively.
- 14.4. Distribution Licensee shall provide all necessary assistance to the Commission, or third party assigned by the Commission in undertaking Evaluation Measurement and Verification of DSM programmes implemented by it.
- 14.5. The Commission may direct the Distribution Licensee to undertake DSM programmes that may not be cost effective but is highly beneficial to the society. The Commission will make available resources for such project.

**15. Monitoring and reporting of DSM Programmes**

- 15.1. Distribution Licensee shall prepare plan and undertake monitoring and reporting progress of DSM programmes as per Guidelines on Monitoring and Reporting issued by Commission from time to time or as approved by the Commission while approving the DSM programme.

**16. Evaluation Measurement and Verification of DSM Programme**

- 16.1. Distribution Licensee shall prepare plan for evaluation, measurement and verification of savings from DSM programmes.
- 16.2. Third party Evaluation Measurement and Verification of DSM programmes may be undertaken by the Commission or third party assigned by the Licensee.

While engaging the agency, the Licensee shall ensure that the Agency is not undertaking any other engagement which could conflict with the interests of the consumers in the State.
- 16.3. Distribution Licensee shall make available necessary information/data to the Commission or third party assigned by the Commission to measure and verify the savings from DSM programmes.

**Chapter V: DSM Plan and Programme Completion Report**

17. Reports on progress of DSM Plan and expenses incurred on implementation of DSM Plan shall be submitted by the Distribution Licensee every six months.
  - 17.1 The Distribution Licensee will prepare and submit a detailed Program Completion Report and submit the same to the Commission within one month of completion of such programme.
  - 17.2 The Report shall cover the programme expenses, achievements, outcomes and outputs, constraints and difficulties faced, conclusions, recommendations, lessons learned and way forward.

**Chapter VI: Incentives**

18. The Commission may provide incentives to the Distribution Licensees for achieving or exceeding the DSM Objectives as identified in Section 3 of the Regulations.

**Chapter VII: Miscellaneous**

19. The Commission may, at any time add, vary, alter, modify or amend any provisions of these regulations.
  - 19.1 If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may, by general or specific order, make such provisions not inconsistent with the provisions of the Act, as may appear to be necessary for removing the difficulty.
  - 19.2 The Commission may, from time to time, issue orders and practice directions in regard to the implementation of the regulations and procedures to be followed.
  - 19.3 All disputes arising under these regulations shall be decided by the Commission based on an application made by the person aggrieved.

ANISH GARG, Director, JERC  
[ADVT. III/4/Exty./218-1/14]