

**HARYANA ELECTRICITY REGULATORY COMMISSION**  
**BAYS NO. 33-36, SECTOR – 4, PANCHKULA – 134113, HARYANA**

**Haryana Electricity Regulatory Commission (Terms and Conditions for determination of Tariff from Renewable Energy Sources, Renewable Purchase Obligation and Renewable Energy Certificate) Regulation, 2010 (5<sup>th</sup> Amendment) Regulations, 2016.**

**Notification**

**The 5<sup>th</sup> October, 2016**

**Regulation No. HERC/ 23 / 2010 / 5<sup>th</sup> Amendment / 2016:** - The Haryana Electricity Regulatory Commission, in exercise of the powers conferred on it by section 181 of the Electricity Act 2003 (Act 36 of 2003) and all other powers enabling it in this behalf and after previous publication, makes the following regulations to amend the Haryana Electricity Regulatory Commission (Terms and Conditions for determination of Tariff from Renewable Energy Sources, Renewable Purchase Obligation and Renewable Energy Certificate) Regulation, 2010.

- 1. Short title, commencement, and interpretation.** – (1) These Regulations may be called the Haryana Electricity Regulatory Commission (Terms and Conditions for determination of Tariff from Renewable Energy Sources, Renewable Purchase Obligation and Renewable Energy Certificate) Regulation, 2010 (5<sup>th</sup> Amendment) Regulations, 2016.  
(2) These regulations shall come into force with effect from the date of their publication in the Haryana Government Gazette.  
(3) These regulations shall extend to Waste to Energy project developers and obligated entities in the State of Haryana.
- 2. Insertion of a new clause under Regulation 2**  
After sub-clause (18) under clause (1) of Regulation 2 of the Principal Regulations, a new clause (18a) shall be added as under:-

“Municipal solid waste’ means and includes commercial and residential wastes generated in a municipal or notified areas in either solid or semi-solid form excluding industrial hazardous wastes but including treated bio-medical wastes”

**3. Insertion of a new clause under Regulation 2**

After sub-clause (33(d)) of Regulation 2 of the Principal Regulations, a new sub-clause (33(e)) shall be added as under:-

"Municipal solid waste (MSW) WtE based power projects -20 years”

**4. Insertion of a new clause under Regulation 3**

After clause (e) of Regulation 3 of the Principal Regulations, a new clause (f) shall be added as under:-

"Municipal solid waste WtE based power projects—The project shall qualify to be termed as a Municipal solid waste WtE based power project, if it is using new plant and machinery and using Municipal solid waste as fuel source for generation of electricity.”

**5. Amendment of Regulation 6 of Principal Regulations**

Clause (a) of Regulation 6 of the Principal Regulations shall be replaced by the following:-

“Municipal solid waste WtE based power projects.”

**6. Amendment of Regulation 10 of the Principal Regulations**

Clause (2) of Regulation 10 of the Principal Regulations shall be substituted by the following :-

"The biomass power generating station with an installed capacity of 10 MW and above, non-fossil fuel based co-generation projects and municipal solid waste WtE shall be subjected to scheduling and despatch code as specified under Haryana Grid Code and other relevant regulations including amendments thereto.

**7. Amendment of Regulation 16 of Principal Regulations**

Clause (1) of Regulation 16 of the Principal Regulations shall be substituted by the following:-

"The Working Capital requirement in respect of wind energy projects, small hydro power, solar PV, solar thermal power projects and Municipal solid waste WtE based power projects shall be computed in accordance with the following :-

- a) Operation & Maintenance expense for one month;
- b) Receivables equivalent to 2 (Two) months of fixed and variable charges for sale of electricity calculated on the target PLF;
- c) Maintenance spare @ 15% of operation and maintenance expenses"

**8. Insertion of a new chapter after Chapter 7 of the Principal Regulations**

After chapter 7 of the Principal Regulations, a new chapter (7A) shall be added as under:-

**“CHAPTER 7A**

**TECHNOLOGY SPECIFIC PARAMETERS FOR POWER PROJECTS USING MUNICIPAL SOLID WASTE /REFUSE DERIVED FUEL AND BASED ON RANKINE CYCLE TECHNOLOGY**

45A. Technology Aspect. – The norms for tariff determination specified hereunder are for power projects which use processed municipal solid waste and are based on Rankine cycle technology application, combustion or incineration, Bio-methanation, Pyrolysis and High end gasifier technologies etc.

46B. Capital Cost.–The normative capital costs for FY 2016-17, for power projects which use processed municipal solid waste and are based on Rankine cycle technology application shall be Rs 1500 lakh/MW.

47C. Plant Load Factor (PLF): – (1) Threshold Plant Load Factor for determining fixed charge component of tariff for the municipal solid waste WtE projects shall be as under:

Sr. No.	PLF (%)	MSW WtE
a)	During Stabilisation	65%
b)	During the remaining period of the first year (after stabilization)	65%
c)	From 2nd Year onwards	75%

(2) The stabilization period shall not be more than 6 months from the date of commissioning of the project.

48D. Auxiliary Energy Consumption (AUXe)

The auxiliary power consumption for the Waste to energy power projects using municipal solid waste and shall be 15.5%.

49F. Operation and Maintenance Expenses (O&M)

(1) Normative O&M expenses for FY 2016-17 for the power projects which use processed municipal solid waste fuel shall be 6.5% of normative capital cost.

(2) Normative O&M expenses allowed for FY 2016-17 for the power projects which use processed municipal solid waste under these Regulations shall be escalated @ 5.72% per annum.

9. Amendment of Form 1.2 appended to the Principal Regulations: Title of Form 1.2 appended to the Principal Regulations shall be substituted as under:-

"Form-1.2: Form Template for (wind power or small hydro projects or solar PV projects solar thermal power project or MSW WtE projects Determination of Tariff Components"

By Order of the Commission

Sd/-  
Director/Tariff