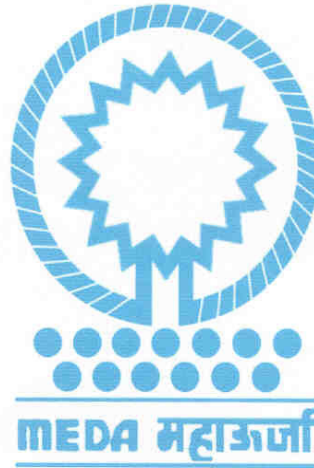


RPO Manual
for
DISCOM / CPP / OA Consumer
Obligated Entities

Based on

**MAHARASHTRA ELECTRICITY REGULATORY COMMISSION'S
(RENEWABLE PURCHASE OBLIGATION, ITS COMPLIANCE AND
IMPLEMENTATION OF REC FRAMEWORK) REGULATIONS, 2010**



Published by

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RENEWABLE PURCHASE OBLIGATION (RPO)

1) What is RPO?

RPO is the obligation mandated by the State Electricity Regulatory Commission (SERC) under the Act, to purchase minimum level of renewable energy out of the total consumption by the Obligated Entity.

2) MERC'S RPO Regulation

Maharashtra Electricity Regulatory Commission vide its Order dated.7th June 2010 has declared **(RENEWABLE PURCHASE OBLIGATION, ITS COMPLIANCE AND IMPLEMENTATION OF REC FRAMEWORK) REGULATIONS, 2010** in the State of Maharashtra. This Regulation has been published in **Part FOUR-C** of Govt. of Maharashtra Gazette on dated.7th June, 2010.

3) Designation of State Agency

Maharashtra Electricity Regulatory Commission vide its Order dated.1st July,2010 has designed Maharashtra Energy Development Agency (MEDA) as a State Agency to undertake the functions as State Agency envisaged under the MERC RPO-REC Regulations, 2010.

4) Operating Period

The RPO framework stipulated under these Regulations shall commence from the date of notification of these Regulations and shall be valid until March 31, 2016 (i.e., upto the financial year 2015-16).

5) Objective

The Main objective of this regulation is to promote co-generation from renewable sources and generation of electricity from renewable sources and is to specify a percentage for procurement of energy generated from such sources on the basis of total consumption of electricity within the area of a distribution licensee

6) Eligible Renewable Energy Sources

Energy generation from all types of renewable energy sources as recognized or approved by the Ministry of New and Renewable Energy Sources (MNRE), shall be considered as eligible renewable energy sources. Provided that any new technology could be qualified as "renewable", only after the State Commission has approved the technology based on the approval of the MNRE.

The Eligible renewable energy sources shall include without limitation the following:

- (a) Non-fossil fuel (including Bagasse) based co-generation projects (both, qualifying and non-qualifying co-generation projects)
- (b) Wind Energy
- (c) Biomass Power based on Rankine cycle technology
- (d) Small Hydro, Mini Hydro, Micro Hydro Power
- (e) Municipal Waste based Power
- (f) Solar Power
- (g) Geothermal Power
- (h) Any other source as may be recognized or approved by State Commission / MNRE

Provided that generation from grid connected renewable energy sources with installed capacity of 250 kW and above or such other minimum capacity as may be specified by Central Commission from time to time shall alone be considered as eligible renewable energy sources;

Provided further that the generation from grid connected renewable energy sources with installed capacity below 250 kW or such other minimum capacity as specified by Central Commission from time to time to qualify for eligible RE sources shall be considered as “eligible RE source” provided suitable metering and communication arrangement with State Load Dispatch Centre is established by such renewable energy project;

Provided further that generation from existing renewable energy generation projects commissioned under earlier policy and regulatory regime shall continue to be recognized as eligible renewable energy sources for the purpose of Renewable Purchase Obligation (RPO) compliance over the Operating Period.

7) Obligated Entities

The minimum percentage as specified under this Regulation shall be applicable to all Distribution Licensees in the State of Maharashtra as well as to open access consumers and captive users within the State of Maharashtra, subject to following conditions:

- (a) Any person who owns a grid connected Captive Generating Plant with installed capacity of 1 MW and above (or such other capacity as may be stipulated from time to time) and consumes electricity generated from such plant for his own use; shall be subjected to minimum percentage of RPO to the extent of his consumption met through such captive source.
- (b) Any person having a contract demand of not less than 1 MVA and who consumes electricity procured from conventional fossil fuel based generation through open access as per Section 42 (2) of the Act shall be subjected to minimum percentage of RPO to the extent of his consumption met through such open access source.

Provided that the State Commission may, by order, revise the minimum capacity referred to under sub-clause (a) and sub-clause (b) above from time to time.

8) Renewable Purchase Obligation (RPO) target

Every “Obligated Entity” shall procure electricity generated from eligible renewable energy sources at the percentages as per the following schedule:

| Year | Minimum Quantum of purchase (in %) from renewable energy sources (in terms of energy equivalent in kWh) | | |
|---------|---|----------------------|-------|
| | Solar | Non-Solar (other RE) | Total |
| 2010-11 | 0.25% | 5.75% | 6.0% |
| 2011-12 | 0.25% | 6.75% | 7.0% |
| 2012-13 | 0.25% | 7.75% | 8.0% |
| 2013-14 | 0.50% | 8.50% | 9.0% |
| 2014-15 | 0.50% | 8.50% | 9.0% |
| 2015-16 | 0.50% | 8.50% | 9.0% |

Provided that Distribution Licensee(s) shall meet 0.1% per year of its Non-Solar (other RE) RPO obligation for the period from FY 2010-11 to FY 2012-13 and up to 0.2% of its Non-solar (other RE) RPO obligation for the period from FY 2013-14 to FY 2015-16 by way of purchase from Mini Hydro or Micro Hydro power project.

Provided further that the Distribution Licensee shall include the plan for procurement of power from RE sources under its long-term power procurement plan to comply with minimum RPO target as stipulated above.

9) Mode of RPO Fulfillment

Every "Obligated Entity" may meet its RPO target by following ways –

- a) Own generation or procurement of power from RE developer or
- b) Purchase from other licensee or
- c) Purchase of renewable energy certificate (REC) or
- d) Combination of any of the above options.

Provided further that procurement of RE power generated within the State by Distribution Licensee at rate other than rate approved by the State Commission directly from generator or from trader shall not be considered as eligible quantum for fulfillment of renewable purchase obligation of such distribution licensee and also quantum of RE power after availing REC benefit.

RPO Fulfillment through Renewable Energy Certificates (REC)

One REC Certificate is equivalent to 1000 KWH. These RECs can be purchased by obligated entities through CERC approved power exchanges in order to fulfill their RPO obligation.

- i) Obligation to purchase electricity generation based on solar as RE source can be fulfilled by purchase of solar certificates only.
- ii) Obligation to purchase electricity generation based on non-solar as RE source can be fulfilled by purchase of non-solar certificates only.
- iii) Procurement of REC's issued for RE generation outside the State of Maharashtra as well as REC's issued for renewable energy generation within the State of Maharashtra shall be considered as an eligible instrument for the purpose of RPO compliance.

10) RPO Data Reporting by Obligated Entities.

As per directives given in said regulation MEDA has devised appropriate protocol for collection of information from various sources such as renewable energy generating companies, obligated entities, SLDC, etc.

For collection of RPO data MEDA has prepared the formats of RPO data submission by obligated entities to MEDA on regular basis and same is approved by MERC. These data formats are mainly of two types

- a) Quarterly RPO data reporting on provisional basis and**
- b) Yearly Final RPO data reporting on CA Certified basis.**

These RPO data reporting formats are devised separately for distribution licensees as well as for CPP-OA consumers. The RPO data reporting formats for distribution licensees are annexed as **annexure I-VII** are as per below.

The RPO data reporting formats for DISCOMs are annexed as annexure I-VII are as per below.

DISCOM- Annexure I

| GROSS ENERGY CONSUMPTION (YEAR _____ - _____) | | | | | |
|---|---|--|--|----------------------|----------------|
| Reporting Quarter - ----- to ----- | | | | | |
| Utility : DISCOM | | | | | |
| 1 | GROSS CONSUMPTION | | | Quantum (MUs) | Remarks |
| <u>O</u> | <u>Own Generation</u> | | | | |
| | Source 1 | | | | |
| | Source 2 | | | | |
| | | | | | |
| | Source N | | | | |
| | Sub Total (1) | | | | |
| <u>P</u> | <u>Purchase from Other generating Company / Intermediaries</u> | | | | |
| | Source 1 | | | | |
| | Source 2 | | | | |
| | | | | | |
| | Source N | | | | |
| | Sub Total (2) | | | | |
| <u>S</u> | <u>Sale to Other Licensee / intermediaries</u> | | | | |
| | Licensee 1 | | | | |
| | Licensee 2 | | | | |
| | | | | | |
| | Inter.1 | | | | |
| | Sub Total (3) | | | | |
| | Total GEC for the Quarter - (O+P-S) | | | | |
| 2 | RPO Obligation (-----% of GEC) | | | | |
| | | | | | |
| <u>Declaration:</u> WE hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP / OA consumers on our network. | | | | | |

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| RENEWABLE ENERGY PROCUREMENT (YEAR _____ - _____) | | | | |
|--|--|--|-----------------------|----------------|
| (A-Solar) | | | | |
| Reporting Quarter - ----- to ----- | | | | |
| Solar Sources Detail | | | | |
| Month: | | | | |
| Eligible Person Name : DISCOM | | | | |
| 1 | Own Generation | | Quantum (MUs.) | Remarks |
| | RE 1 | | | |
| | RE 2 | | | |
| | | | | |
| | RE...N | | | |
| | Sub Total (1) | | | |
| 2 | Purchase from Other RE Sources / Licensee | | | |
| | Source 1 | | | |
| | Source 2 | | | |
| | | | | |
| | | | | |
| | Source N | | | |
| | Sub Total (2) | | | |
| 3 | Purchase through REC | | | |
| | Sub Total (3) | | | |
| 4 | RE Sold to other Person | | | |
| | Party - 1 | | | |
| | Party - 2 | | | |
| | | | | |
| | Sub Total (4) | | | |
| | Total Procurement (1)+(2)+(3)-(4) | | | |
| Declaration: WE hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP / OA consumers on our network. | | | | |

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DISCOM- Annexure III

| RENEWABLE ENERGY PROCUREMENT (YEAR _____ - _____) | | | | |
|--|--|--|-----------------------|----------------|
| (B-Mini / Micro Hydro) | | | | |
| Reporting Quarter - ----- to ----- | | | | |
| Mini / Micro Hydro Sources Detail | | | | |
| Month: | | | | |
| Eligible Person Name : DISCOM | | | | |
| 1 | Own Generation | | Quantum (MUs.) | Remarks |
| | RE 1 | | | |
| | RE 2 | | | |
| | | | | |
| | RE...N | | | |
| | Sub Total (1) | | | |
| 2 | Purchase from Other RE Sources / Licensee | | | |
| | Source 1 | | | |
| | Source 2 | | | |
| | | | | |
| | | | | |
| | Source N | | | |
| | Sub Total (2) | | | |
| 3 | Purchase through REC | | | |
| | Sub Total (3) | | | |
| 4 | RE Sold to other Person | | | |
| | Party - 1 | | | |
| | Party - 2 | | | |
| | | | | |
| | Sub Total (4) | | | |
| | Total Procurement (1)+(2)+(3)-(4) | | | |
| Declaration: WE hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP / OA consumers on our network. | | | | |

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| RENEWABLE ENERGY PROCUREMENT (YEAR _____ - _____) | | | | |
|--|--|--|-----------------------|----------------|
| (C-Non Solar i.e. other than Solar & Mini / Micro Hydro) | | | | |
| Reporting Quarter - ----- to ----- | | | | |
| Non Solar i.e. other than Solar & Mini / Micro Hydro Sources Detail | | | | |
| Month: | | | | |
| Eligible Person Name : DISCOM | | | | |
| 1 | Own Generation | | Quantum (MUs.) | Remarks |
| | RE 1 | | | |
| | RE 2 | | | |
| | | | | |
| | RE...N | | | |
| | Sub Total (1) | | | |
| 2 | Purchase from Other RE Sources / Licensee | | | |
| | Source 1 | | | |
| | Source 2 | | | |
| | | | | |
| | | | | |
| | Source N | | | |
| | Sub Total (2) | | | |
| 3 | Purchase through REC | | | |
| | Sub Total (3) | | | |
| 4 | RE Sold to other Person | | | |
| | Party - 1 | | | |
| | Party - 2 | | | |
| | | | | |
| | Sub Total (4) | | | |
| | Total Procurement (1)+(2)+(3)-(4) | | | |
| Declaration: WE hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP / OA consumers on our network. | | | | |

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RPO Settlement Account (Yearly) - YEAR -----

A - Solar

Name : Eligible Person - DISCOM

| Gross Energy Consumption | | RPO % Obligation (----- %) | RPO % Up to Previous month | RPO% Cumulative upto the month (1) | RE purchase for the month | | RE purchase up to previous Month | | RE cumulative upto the month (2) | | Short if any (1-2) |
|--------------------------|--|-------------------------------|----------------------------|------------------------------------|---------------------------|-----|----------------------------------|-----|----------------------------------|-----|--------------------|
| MUs. | | MUs. | MUs. | MUs. | MUs. | | MUs. | | MUs. | | MUs. |
| Fiscal Year (-----) | | | | | Preferential Tariff | REC | Preferential Tariff | REC | Preferential Tariff | REC | |
| April | | | | | | | | | | | |
| May | | | | | | | | | | | |
| June | | | | | | | | | | | |
| July | | | | | | | | | | | |
| August | | | | | | | | | | | |
| September | | | | | | | | | | | |
| October | | | | | | | | | | | |
| November | | | | | | | | | | | |
| December | | | | | | | | | | | |
| January | | | | | | | | | | | |
| February | | | | | | | | | | | |
| March | | | | | | | | | | | |
| Total | | | | | | | | | | | |

Declaration: WE hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP / OA consumers on our network.

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Note: Detailed information about RE generators from whom RE purchased along with proof of REC purchased if any shall be submitted along with report for confirmation purpose.

RPO Settlement Account (Yearly) - YEAR -----

B - Mini / Micro Hydro

Name : Eligible Person - DISCOM

| Gross Energy Consumption | | RPO % Obligation (----- %) | RPO % Up to Previous month | RPO% Cumulative upto the month (1) | RE purchase for the month | | RE purchase up to previous Month | | RE cumulative upto the month (2) | Short if any (1-2) | |
|--------------------------|--|-------------------------------|----------------------------|---------------------------------------|---------------------------|-----|----------------------------------|-----|-------------------------------------|-----------------------|---|
| MUs. | | MUs. | MUs. | MUs. | MUs. | | MUs. | | MUs. | MUs. | |
| Fiscal Year (-----) | | | | | Preferential Tariff | REC | Preferential Tariff | REC | Preferential Tariff | REC | |
| April | | | | | | | | | | | |
| May | | | | | | | | | | | |
| June | | | | | | | | | | | |
| July | | | | | | | | | | | |
| August | | | | | | | | | | | |
| September | | | | | | | | | | | |
| October | | | | | | | | | | | |
| November | | | | | | | | | | | |
| December | | | | | | | | | | | |
| January | | | | | | | | | | | |
| February | | | | | | | | | | | |
| March | | | | | | | | | | | |
| Total | | | | | | | | | | | . |

Declaration: WE hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP / OA consumers on our network.

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Note: Detailed information about RE generators from whom RE purchased along with proof of REC purchased if any shall be submitted along with report for confirmation purpose.

RPO Settlement Account (Yearly) - YEAR -----

C - Non-Solar i.e. Other than Solar & Mini / Micro Hydro

Name : Eligible Person - DISCOM

| Gross Energy Consumption | | RPO % Obligation (----- %) | RPO % Up to Previous month | RPO% Cumulative upto the month (1) | RE purchase for the month | | RE purchase up to previous Month | | RE cumulative upto the month (2) | Short if any (1-2) | |
|--------------------------|--|-------------------------------|----------------------------|---------------------------------------|---------------------------|-----|----------------------------------|-----|-------------------------------------|-----------------------|---|
| MUs. | | MUs. | MUs. | MUs. | MUs. | | MUs. | | MUs. | MUs. | |
| Fiscal Year (-----) | | | | | Preferential Tariff | REC | Preferential Tariff | REC | Preferential Tariff | REC | |
| April | | | | | | | | | | | |
| May | | | | | | | | | | | |
| June | | | | | | | | | | | |
| July | | | | | | | | | | | |
| August | | | | | | | | | | | |
| September | | | | | | | | | | | |
| October | | | | | | | | | | | |
| November | | | | | | | | | | | |
| December | | | | | | | | | | | |
| January | | | | | | | | | | | |
| February | | | | | | | | | | | |
| March | | | | | | | | | | | |
| Total | | | | | | | | | | | . |

Declaration: WE hereby declare that the gross energy consumption & R.E procurement data submitted above does not includes the gross energy consumption & R.E procurement data of CPP / OA consumers on our network.

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Note: Detailed information about RE generators from whom RE purchased along with proof of REC purchased if any shall be submitted along with report for confirmation purpose.

The RPO data reporting formats for CPP / OA consumers are annexed as annexure I-IV are as per below.

CPP- Annexure- I

| GROSS ENERGY CONSUMPTION (YEAR _____ - _____) | | | |
|--|--|----------------------|----------------|
| | Reporting Quarter - ----- to ----- | | |
| | Utility : Captive Users (Other than Co-generation*) | | |
| 1 | GROSS CONSUMPTION | Quantum (MUs) | Remarks |
| <u>O</u> | <u>Own Generation</u> (In case of Captive Users (Other than Co-generation*)) | | |
| | Source 1 | | |
| | Source 2 | | |
| | | | |
| | Source N | | |
| | Sub Total (1) | | |
| <u>P</u> | <u>Procurement through group captive / intermediaries</u> | | |
| | Source 1 | | |
| | Source 2 | | |
| | | | |
| | Source N | | |
| | Sub Total (2) | | |
| <u>S</u> | <u>Sale to Other Licensee / intermediaries</u> | | |
| | Licensee 1 | | |
| | Licensee 2 | | |
| | | | |
| | Inter.1 | | |
| | Sub Total (3) | | |
| | Total GEC for the Quarter - (O)+(P)-(S) | | |
| 2 | RPO Obligation (-----% of GEC) | | |
| | | | |

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| GROSS ENERGY CONSUMPTION (YEAR _____ - _____) | | | |
|--|---|----------------------|----------------|
| Reporting Quarter - ----- to ----- | | | |
| Utility : Open Access Consumers | | | |
| 1 | GROSS CONSUMPTION | Quantum (MUs) | Remarks |
| <u>O</u> | <u>Own Generation Consumption from own generation</u> | | |
| | Source 1 | | |
| | Source 2 | | |
| | | | |
| | Source N | | |
| | Sub Total (1) | | |
| <u>P</u> | <u>Purchase from Other generating Company / Intermediaries (In case of open Access Consumers)</u> | | |
| | Source 1 | | |
| | Source 2 | | |
| | | | |
| | Source N | | |
| | Sub Total (2) | | |
| <u>S</u> | <u>Sale to Other Licensee / intermediaries</u> | | |
| | Licensee 1 | | |
| | Licensee 2 | | |
| | | | |
| | Inter.1 | | |
| | Sub Total (3) | | |
| | Total GEC for the Quarter - (O)+(P)-(S) | | |
| 2 | RPO Obligation (-----% of GEC) | | |
| | | | |

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| RENEWABLE ENERGY PROCUREMENT (YEAR _____ - _____) | | | | |
|---|--|--|--------------------------|----------------|
| (A-Solar) | | | | |
| Reporting Quarter - ----- to ----- | | | | |
| Solar Sources Detail | | | | |
| Month: | | | | |
| Eligible Person Name : Captive Users / open Access Consumers | | | | |
| 1 | Own Generation | | Quantum (Mus) | Remarks |
| | RE 1 | | | |
| | RE 2 | | | |
| | | | | |
| | RE...N | | | |
| | Sub Total (1) | | | |
| 2 | Purchase from Other RE Sources / Licensee | | | |
| | Source 1 | | | |
| | Source 2 | | | |
| | | | | |
| | | | | |
| | Source N | | | |
| | Sub Total (2) | | | |
| 3 | Purchase through REC | | | |
| | Sub Total (3) | | | |
| 4 | RE Sold to other Person | | | |
| | Party - 1 | | | |
| | Party - 2 | | | |
| | | | | |
| | Sub Total (4) | | | |
| | Total Procurement (1)+(2)+(3)-(4) | | | |

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| RENEWABLE ENERGY PROCUREMENT (YEAR _____ - _____) | | | | |
|---|--|--|----------------------|----------------|
| (B-Non Solar) | | | | |
| Reporting Quarter - ----- to ----- | | | | |
| Non Solar Sources Detail | | | | |
| Month: | | | | |
| Eligible Person Name : Captive Users / open Access Consumers | | | | |
| 1 | Own Generation | | Quantum (Mus) | Remarks |
| | RE 1 | | | |
| | RE 2 | | | |
| | | | | |
| | RE...N | | | |
| | Sub Total (1) | | | |
| 2 | Purchase from Other RE Sources / Licensee | | | |
| | Source 1 | | | |
| | Source 2 | | | |
| | | | | |
| | | | | |
| | Source N | | | |
| | Sub Total (2) | | | |
| 3 | Purchase through REC | | | |
| | Sub Total (3) | | | |
| 4 | RE Sold to other Person | | | |
| | Party - 1 | | | |
| | Party - 2 | | | |
| | | | | |
| | Sub Total (4) | | | |
| | Total Procurement (1)+(2)+(3)-(4) | | | |

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FINAL RPO ACHIVEMENT DATA REPORTING FOR FINANCIAL YEAR 20---- to 20----

Name of the Company/Organization: -----

Obligated Entities [Tick (✓) the appropriate option]: Captive User (CPP): () or Open Access Consumer: ()

Name of the Distribution Licensee’s Area: -----

For CPP: Plant Installed Capacity (in MW): Captive Use from power plant in MW: ----- Sale outside/third party (in MW) -----)

For OA Consumer: Contract Demand (in MVA) :----- (Source: ----- Consumption location -----)

| Fiscal Year () | Total Energy Consumption (from captive source in case of Captive user) / (from open access source in case of OA consumer | Solar RPO | | Non-Solar RPO | | Total energy to be procured as per RPO E= (A)+(C) | Total RE procurement (Solar + Non-Solar) F= (B+D) | Shortfall if any (E)-(F) |
|------------------------|--|---|---|---|---|--|--|---------------------------------|
| | | Solar RPO Target for respective years (A) | Energy actually procured against target (B) | Non-Solar RPO Target for respective years (C) | Energy actually procured against target (D) | | | |
| | MU | MU | MU | MU | MU | MU | MU | MU |
| | | | Solar RE | Solar REC | | Non-Solar RE | Non-Solar REC | |
| April | | | | | | | | |
| May | | | | | | | | |
| June | | | | | | | | |
| July | | | | | | | | |
| August | | | | | | | | |
| September | | | | | | | | |
| October | | | | | | | | |
| November | | | | | | | | |
| December | | | | | | | | |

| | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|
| January | | | | | | | | | | |
| February | | | | | | | | | | |
| March | | | | | | | | | | |
| Total | | | | | | | | | | |

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- Note:**
- 1) Detailed information about RE generators from whom RE purchased along with proof of REC purchased if any shall be submitted along with report for confirmation purpose.
 - 2) In case of OA consumer copy of open access permission for concerned period shall be submitted.
 - 3) In case of CPP copy of grid connectivity permission shall be submitted.

11) Role of State Agency

- a) The State Agency shall function in accordance with the directions issued by the State Commission and shall act in a manner consistent with the procedures and rules laid by Central Agency for discharge of its functions under the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issue of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010.
- b) The State Agency shall devise appropriate protocol for collection of information from various sources such as renewable energy generating companies, obligated entities, SLDC, etc., on regular basis and compile such information to compute the compliance of RPO target by such Obligated Entities.
- c) The summary statement of RE procurement and RPO compliance by different Obligated Entities shall be published by the State Agency on cumulative basis every quarter on its website.
- d) The information shall cover RE procurement by each Obligated Entity comprising of renewable energy procurement under preferential tariff route as well as renewable energy procurement through REC mechanism.
- e) The State Agency shall submit quarterly status to the State Commission in respect of compliance of renewable purchase obligation by the Obligated Entities in the format stipulated by the State Commission and may suggest appropriate action to the State Commission if required for compliance of the renewable purchase obligation.

12) Role of PWD (Electrical):-

Office of the PWD (Electrical) shall submit quarterly the details of registered grid connected Captive Power Plants (CPP) in prescribed format (**As per Sr.N. 14**) & related information as per requirement of State Agency.

13) Role of Distribution Licensee(s):-

- a) Each Distribution Licensee shall indicate, along with sufficient proof thereof, the estimated quantum of purchase from renewable energy sources for each year of the Operating Period under the Business Plan as well as under MYT Petition in accordance with Regulations notified by the State Commission and accordingly shall enter into long term arrangement to meet its RPO obligations.
- b) The estimated quantum of renewable energy purchase shall be in accordance with clause 7.1 of these Regulations corresponding to the approved power purchase quantity for each year of the Operating Period.
- c) The Distribution Licensees shall also furnish the summary statement of energy procured from different renewable energy sources on quarterly basis to the State Agency.
- d) Distribution Licensees shall submit quarterly, the details of OA consumers in prescribed format (**As per Sr.N. 14**) on their network to State Agency.
- e) At the end of each financial year, each Distribution Licensee shall submit a detailed statement of energy procurement from various RE sources, duly certified by the auditors.
- f) If any Distribution Licensees is unable to fulfill the obligation, they shall be liable to pay RPO Regulatory Charges as specified in clause 12.1 of these Regulations.

14) Format for quarterly updated details of (Grid connected) CPPs / OA consumers above 1MW / 1MVA to be submitted by DISCOM / PWD (Electrical) to MEDA

Quarter: ----- to ----- of 20__

Quarterly updated details of Registered Self Use/CPPs above 1MW to be submitted by DISCOM / PWD (Electrical) to MEDA

Quarter: ----- to ----- of 20

| Sr. No | Name of CPP unit (Self Use) | Address / Location of Self Use / CPP unit | Email-id / Contact details | Self Use CPP installed & generation capacity (in MW) | Registration No. | Registration date (DD/MM/YYYY) | Date of Commissioning (DD/MM/YYYY) | Source of generation (specify fuel type / technology) | Voltage level of grid connection (in KV) | Grid connection status (whether synchronised for parallel operation or not) | Gross Energy Consumption from own generation (from CPP unit) (in MWh) | Host DISCOM (not necessary if location of CPP specified) | Consumer number | Meter location and meter type (marked on the Single Line Diagram to be provided) |
|--------|-----------------------------|---|----------------------------|--|------------------|--------------------------------|------------------------------------|---|--|--|---|--|-----------------|--|
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | |

Note: DISCOMs / PWD (Electrical) needs to submit above updated details for the quarter by first week of next quarter to MEDA.

Say: for April- June quarter-First week of July

for July- September quarter-First week of October

for October- December quarter-First week of January

for January- March quarter-First week of April

Quarterly updated details of Registered OA consumers having Contract demand 1MVA & above to be submitted by DISCOMs / SLDC to MEDA

Quarter: ----- to ----- of 20

| Sr. No | Name of OA consumer | Address / location of OA consumer | Email-id / Contact details | Consumer No. | Capacity of Open Access (in MW) & period for Open Access | OA consumer contract demand (in KVA) | Consumer Voltage level (in KV) | Name & address of Generator Unit | Source of generation (specify fuel type/technology) | Generation Voltage level (in KV) | Energy wheeled under Open Access (Grossed up for losses) (in MWh) |
|--------|---------------------|-----------------------------------|----------------------------|--------------|--|--------------------------------------|--------------------------------|----------------------------------|---|----------------------------------|---|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| . | | | | | | | | | | | |
| . | | | | | | | | | | | |
| . | | | | | | | | | | | |
| N | | | | | | | | | | | |

Note: DISCOMs/ SLDC needs to submit above updated details for the quarter by first week of next quarter to MEDA

Say: for April- June quarter-First week of July

for July- September quarter-First week of October

for October- December quarter-First week of January

for January- March quarter-First week of April

15) Role of Captive User(s) and Open Access Consumer(s)

- a) Every Captive User and Open Access consumer shall submit necessary details regarding total consumption of electricity and power purchase from renewable energy sources towards fulfillment of its RPO on quarterly basis to the State Agency in the prescribed formats approved by state commission.
- b) Captive User(s) and Open Access Consumer(s) shall purchase renewable energy as stated in Regulation 7.1 & clause no.9 of this manual and accordingly shall enter into long term arrangement to meet its RPO obligations.
- c) If the Captive User(s) and Open Access consumer(s) are unable to fulfill their obligation, they shall be liable to pay RPO Regulatory Charges as specified in Regulation 12.1.
- d) Captive/Open Access consumer(s)/User(s) may fulfill their RPO through procurement of the Renewable Energy Certificate.

16) Exemption for CPP / OA consumer under RPO Obligation

Captive user(s) consuming power from **grid connected fossil fuel based co-generation plants** are exempted from applicability of RPO target and other related conditions as specified in these Regulations.

RPO Obligation shall not be applicable in case of Standby (or Emergency back-up) Captive Generating Plant facilities. Category & Proof required to be submitted by obligated entity to MEDA for availing exemption under RPO obligation is as below

| Category Type | Proof required |
|--|--|
| For Off-Grid CPP | Certification from concerned Distribution Licensee / Transmission Licensee (as per case may be) |
| For Grid connected CPP having Co-generation facility | Certification from concerned Distribution Licensee / Transmission Licensee/ Electrical Inspector, PWD, GoM/ MPCB / MEDA. |
| For CPP in case of Standby (or Emergency Back-up) Captive Generating Plant facilities. | Certification from concerned Distribution Licensee / Electrical Inspector, PWD, GoM. |
| For renewable based CPP/ OA consumers | Certification from MEDA. |
| In case of OA consumers | Certification from concerned Distribution Licensee / Transmission Licensee (Valid OA permission) |
| In case of CPP generating plant is Shut down/ Un-operational/ Company is Lock down. | Certification from Electrical Inspector, PWD, GoM. |

17) RPO Regulatory Charges

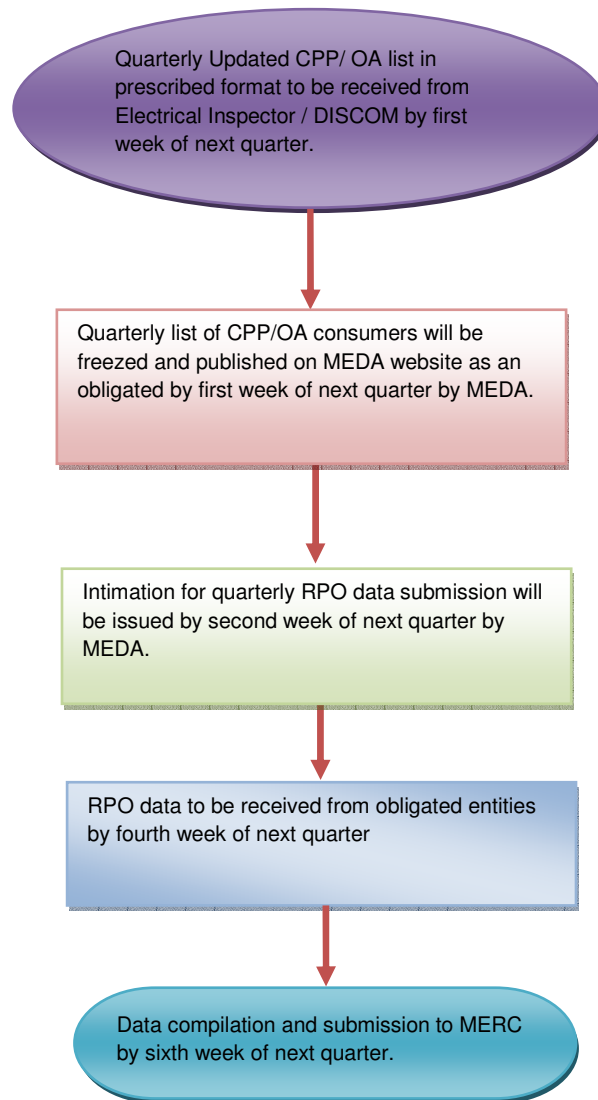
If the Obligated Entity fails to comply with the RPO target as provided in these Regulations during any year and fails to purchase the required quantum of RECs, the State Commission may direct the Obligated Entity to deposit into a separate fund, to be created and maintained by such Obligated Entity, such amount as the Commission may determine on the basis of the shortfall in units of RPO, RPO Regulatory Charges and the Forbearance Price decided by the Central Commission; separately in respect of solar and non-solar RPO:

Provided that RPO Regulatory Charges shall be equivalent to the highest applicable preferential tariff during the year for solar or non-solar RE generating sources, as the case may be, or any other rate as may be stipulated by the State Commission;

Provided further that the fund so created shall be utilized, as may be directed by the State Commission.

All the new renewable energy projects commissioned during the Control Period, i.e. after March 31, 2010, shall have an option of following either the tariff structure and other conditions as stipulated in the MERC (Terms and Conditions of determination of RE tariff) Regulations, 2010, or adopt the REC mechanism for pricing of the electricity generated from the project.

18) Process Flow Chart for collection & verification of data of CPP/OA consumers



Note: Submission of RPO data for fourth quarter shall also be submitted along with the Final RPO achievement data for concerned financial year by an obligated entity in prescribed format to State Agency.
