JOINT ELECTRICITY REGULATORY COMMISSION

WHEREAS the Joint Electricity Regulatory Commission have published in the Joint Government Gazette on different dates the following, namely:-

Joint Electricity Regulatory Commission (JERC), (Procurement of Renewable energy) Regulations, 2010.

Notification No.: JERC-14/2010: Dated: 30.11.2010)

- A. Joint Electricity Regulatory Commission Supply Code (JERC), (Procurement of Renewable energy) Regulations, 2010, (First Amendment), 2014 (Notification No.: JERC-14/2010., Dated: 19.02.2014)
 - B. Joint Electricity Regulatory Commission Supply Code (JERC), (Procurement of Renewable energy) Regulations, 2010,(Second Amendment), 2015; (Notification No.: JERC-14/2010, Dated: 22.12.2015)
 - C. Joint Electricity Regulatory Commission Supply Code (JERC), (Procurement of Renewable energy) Regulations, 2010,(Third Amendment), 2016; (Notification No. : JERC-14/2010, Dated: 22.08.2016)
- Inserted/ Replaced matter is shown as []^D at appropriate place; wordings inserted/ replaced shown within square brackets;
- In both of above cases; -D; superscript D implies that change is caused by Amendment '4':

Dated: 30th November, 2010

NOTIFICATION

No.: JERC-14/2010:- In exercise of powers conferred under sections 61, 66, 86 (1) (e) and 181 of the Electricity Act, 2003 and all powers enabling it in this behalf, Joint Electricity Regulatory Commission (for state of Goa & Union Territories) hereby makes the following regulations for the development of power generation from renewable energy sources and for procurement of energy from renewable sources by distribution licensee.

1. Short title, commencement and extent of application

(i) These regulations may be called the Joint Electricity Regulatory Commission for state of Goa & Union Territories (Procurement of Renewable energy) Regulations, 2010.

- (ii) These regulations shall come into force from the date of their publication in the official gazette.
- (iii) These regulations shall apply to the whole of the state of Goa and the Union Territories of Andaman and Nicobar Islands, Chandigarh, Dadra & Nagar Haveli, Daman & Diu, Laksha Dweep and Puducherry.

2. Definitions

In these regulations, unless the context otherwise requires,

- (a) "Act" means the Electricity Act, 2003 (Act 36 of 2003);
- (b) ^B[1 "Area of Supply" means the areas within which the Distribution Licensees/ deemed licensees are authorized to supply electricity.
- (c) "Captive User" shall have the same meaning as defined in rule 3 (2) of Electricity Rules 2005.
- (d) "Central Agency" means the agency, as the Central Commission may designate from time to time.
- (e) "Central Commission" means the Central Electricity Regulatory Commission referred to in sub section (1) of section 76 of the Act.
- (f) "Certificate" means the Renewable Energy Certificate issued by the Central Agency in accordance with the procedures prescribed by it under the provisions specified in the Central Electricity Regulatory Commission (Terms & Conditions for recognition and issue of Renewable Energy Certificate for Renewable Energy Generation) Regulations 2010.¹⁸
- (g) "Commission" means the Joint Electricity Regulatory Commission for the state of Goa and Union Territories constituted by the Central Government under subsection (5) of section 83 of the Act;
- ^B[²(h) "Eligible Entity" means renewable energy generator who has obtained necessary accredition from the Central/ State Agency.]^B
- ^B[³(i) "Forbearance price" means the ceiling price as determined by the Central Commission in accordance with CERC (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) regulations, 2010 with in which only the certificates can be dealt in the power exchange. "Generator" means the person(s) generating or intending to generate energy from renewable sources;

¹ New insertions Before (b) of Regulation 2, are made and numbered as (b), (c), (d), (e) & (f) vide Second amendment (B), 2015

² Inserted new definition of "Eligible Entity" in Regulation 2, vide Second amendment (B), 2015

³ Omitted and inserted sub-Regulation (i) of Regulation 2, vide Second amendment (B), 2015

- (i) "Floor Price and Forbearance Price" means the minimum price and the ceiling price, respectively as determined by the Central Commission in accordance with the Central Electricity Regulatory Commission (Terms & Conditions for recognition and issue of Renewable Energy Certificate for Renewal Energy Generation) Regulations 2010, as amended from time to time, within which only the certificates can be dealt in the power exchange.]^B
- ^B[⁴(j) "**Grid code**" means the grid code specified by the Central Commission under clause(h) of sub-section (1) of section 79 of the Act and includes the State Code specified by the State Commission under clause (h) of sub-section (1) of section 86 of the Act;]^B
- (k) "Interconnection facilities" means all the facilities which shall include, without limitation, switching equipment, control, protection and metering devices etc. for the incoming bay (s) for the project line(s), to be installed and maintained by the licensee at the Inter-Connection Point at the cost of the generator to enable evacuation of electrical output from the Project;
- (I) "Interconnection point": means the physical touch point where the project line(s) and the allied equipment forming a part of the interconnection facilities are connected to the licensee's power system;
- A[5(m) "Licensee" means a person who is granted a license or is a deemed licensee under section 14 of the Act;
- (n) "MNRE" means the Ministry of New and Renewable Energy;]A
- ^A[⁶(o) "**Obligated Entity**" means the entity mandated under clause (e) of sub-section (1) section 86 of the Act to fulfill the renewable purchase obligation under these Regulations.
- ^B[⁷(o)"Obligated Entity" means the entity mandated under clause (e) of sub-section (1) section 86 of the Act fulfill the renewable purchase obligation under these Regulations and includes distribution licensee, captive user for 1 MW and above with fossil fuel (excluding co-generation based captive power plants) and open access consumer.]^A
- (o) "Obligated Entity means the Distribution Licensees/ deemed licensees, captive user (s) and open access consumer (s) in the State of Goa and Union Territories, which is mandated to fulfill Renewable Purchase Obligation under these Regulations.]^B

⁴ Omitted sub-Regulation (j) of Regulation2, vide Second amendment (B), 2015

⁵ Omitted sub-Regulation (I) and (m) of Regulation 2, vide Second amendment (B), 2015

⁶ Omitted and Inserted sub-Regulation (j) of principle Regulation 2, vide First amendment (A), 2014

⁷ Omitted and Inserted sub-Regulation (o) of principle Regulation 2, vide First amendment (B), 2015

- ^B[⁸(p) "Open access Consumer" means a Consumer permitted by the Commission to receive supply of electricity from a person other than the Distribution Licensees of his area of supply who has availed of or intends to avail of open access.]^B
- (q) "**Project**" means the generation project for producing power from renewable sources including the transmission line (s) from the generation station and interconnection facilities;
- (r) "**Project line(s)**" means the transmission line(s) from the generating station to the interconnection point
- (s) "Power Exchange" means any exchange operating as the power exchange for electricity in terms of the orders issued by the Central Commission.
- (t) "Preferential Tariff" means the tariff fixed by appropriate Commission for sale of energy from a generating station based on renewable energy sources.
- ^A[⁹((u) "Renewable Energy Sources" in this context means electricity generating sources recognized or approved by the MNRE.
- u) "Renewable Energy Sources" means Electricity generating sources recognized or approved by the Ministry of New and Renewable Energy and includes bundled power purchase (to the extent of Renewable Energy content in the bundled Power), power generated from co-generation based power plants wherein the fuel used is non-fossil fuel duly recognized as renewable sources by MNRE and certified by the State accredited agency.]^A
- (v) "State Agency" means the agency in the concerned state as may be designated by the Commission to act as the agency for accreditation and recommending the renewable energy projects for registration with Central Agency and to undertake such functions as may be assigned by the Commission.
- (w) "Year" means a financial year
- (x) ^A[10"Renewable Purchase Obligation" means quantum as mandated under clause (e) of sub-section (1) of section 86 of the Act and specified under these Regulations for the obligated entity to purchase electricity generated from renewable energy sources.]^A

⁸ Inserted new clause (p) in Regulation 2, vide Second Regulation (B), 2015

⁹ Omitted and Inserted sub-Regulation (o) of principle Regulation 2, vide First amendment (A), 2014

 $^{^{10}\,}$ Added definition of RPO in Regulation 1, vide First amendment (A), 2014

^B[¹¹Words or expression occurring in these regulations and not expressly defined herein shall bear the same meaning as respectively assigned to them in the Act.

Words or expression occurring in these regulations and not expressly defined herein shall bear the same meaning as respectively assigned to them in the Act. or the regulations issued by the Central Commission or any other regulations issued by the Commission, shall have the same meaning assigned to them respectively in the Act or such other regulations issued by the Central Commission or such other regulations issued by the Commission.^B

3. Quantum of Renewable Purchase Obligation (RPO)

^B[12(3.1) Each distribution licensee shall purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year.

The defined minimum percentages are given below in the Table - 1.

(3.1) Every obligated entity shall purchase electricity from renewable energy sources for fulfillment of a defined minimum percentage of its total consumption of electricity under the Renewable Purchase Obligation as specified in Table 1 below:-¹⁸

Table - 1

^A [¹³ Year	Minimum quantum of purchase (in %) from renewable energy		
	Total	Solar	Non-Solar
2010-11	1%	0.25%	0.75%
2011-12	2%	0.30%	1.70%
2012-13	3%	0.40%	2.6%

^C [¹⁴ Year	Minimum quantum of purchase (in %) from renewable energy		
	Total RPO (%)	Solar RPO (%)	Non-Solar RPO (%)
(1)	(2)	(3)	(4)
2010-11	1.00%	0.25%	0.75%
2011-12	2.00%	0.30%	1.70%

¹¹ Omitted and inserted paragraph of Regulation 3, vide Second amendment (B), 2015

¹² Omitted and inserted clause (3.1) of Regulation 3 (RPO), vide Second amendment (B), 2015

¹³ Deleted and Inserted PRO table -1 of sub-Regulation (3.1) of Regulation 3, vide First amendment (A), 2014

 $^{^{14}}$ Deleted and inserted RPO table -1 of sub-Regulation (3.1) of Regulation 3, vide Third amendment (C), 2016

2012-13	3.00%	0.40%	2.60%
2013-14	3.00%	0.40%	2.60%
2014-15	3.30%	0.60%	2.70%
2015-16	3.55%	0.85%	2.70%
2016-17	3.95%	1.15%	2.80%
2017-18	4.30%	1.50%	2.80%
2018-19	4.65%	1.85%	2.80%
2019-20	5.10%	2.20%	2.90%
2020-21	5.50%	2.60%	2.90%
2021-22	6.00%	3.00%	3.00% } ^A

Financial Year	Minimum quantum of purchase (in %) from renewable energy sources (in kWh) (% of total energy mix of consumption, excluding Hydro Power)		
	Total RPO (%)	Solar RPO (%)	
(1)	(2)	(3)	
2010-11	1.00	0.25	
2011-12	2.00	0.30	
2012-13	3.00	0.40	
2013-14	3.00	0.40	
2014-15	3.30	0.60	
2015-16	3.55	0.85	
2016-17	4.85	1.65	
2017-18	6.70	2.50	
2018-19	9.00	3.60	
2019-20	11.50	4.70	
2020-21	14.10	6.10	
2021-22	17.00	8.00J ^C	

^A[¹⁵(3.2) The RPO specified in the financial year 2012-13 shall be continued beyond 2012-13 till any revision is effected by the Commission in this regard.]^A

^B[16 Provided that the Renewal Purchase Obligation from solar as specified in Column 3 shall be fulfilled from the generation based on solar sources only;

Provided further that such obligation to purchase Renewal energy shall be inclusive of the purchases, if any, from renewal energy sources already being made by the concerned obligated entity; and

Provided further that the power purchase from renewable sources under the Power Purchase Agreement (s) already entered into by the distribution licensees and consented to by the Commission, shall continue to be made till their present

¹⁶ Inserted proviso at the end of the Regulation 3 (RPO), vide Second amendment (B), 2015

¹⁵ Deleted sub-Regulation (3.2) of Regulation 3, vide First amendment (A), 2014

validity, even if the total purchase under such agreement (s) exceeds the percentage as specified in Table 1.1^B

4. Certificates under the Regulations of the Central Commission

4.1 Subject to the terms and conditions contained in these regulations the Certificates issued under the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 shall be the valid instruments for the discharge of the mandatory obligations set out in these regulations for the obligated entities to purchase electricity from renewable energy sources.

Provided that obligated entity fulfilling the renewable purchase obligation by purchase of certificates, the obligation to purchase electricity from generation based on solar as renewable energy source shall be fulfilled by purchase of solar certificates only, and the obligation to purchase electricity from generation based on renewable energy other than solar can be fulfilled by purchase of non –solar certificates.

- 4.2 Subject to such direction as the Commission may give from time to time, the obligated entity shall act consistent with the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 notified by the Central Commission in regard to the procurement of the certificates for fulfillment of the Renewable Purchase Obligation under these regulations.
- 4.3 The Certificates purchased by the obligated entities from the power exchange in accordance with sub -clause (4.1) above shall be deposited by the obligated entities to the appropriate agency in accordance with the detailed procedure to be issued by the Central Commission/ Central Agency.

5. State Agency

5.1 The Commission shall designate an agency as State Agency for accreditation and recommending the renewable energy projects for registration and to undertake functions under these regulations.

- 5.2 B₁¹⁷The State Agency shall function in accordance with the directions issued by the Commission and shall act in consistent with the procedures/rules laid by Central Agency for discharge of its functions under the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010.
- 5.2 Every obligated entity shall meet its RPO target by way of its own generation or by way of purchase from other sources / licensees or by way of purchase of Renewal Energy Certificates or by way of combination of any of the above options. Any long term purchase arrangements shall be made only with the approval of the Commission. The Commission shall approve long term PPAs on case to case basis.¹⁸
- 5.3 The State Agency shall submit quarterly status to the Commission in respect of compliance of renewable purchase obligation by the obligated entities in the ^B[¹⁸format and within the periods]^B stipulated by the Commission and may suggest appropriate action to the Commission if required for compliance of the renewable purchase obligation.
- 5.4 The Commission may from time to time fix the remuneration and charges payable to the State Agency for discharge of its functions under these regulations to be recovered from the accredited entities and obligated entities.
- 5.5 If the Commission is satisfied that the State Agency is not able to discharge its functions satisfactorily, it may by general or special order, and by recording reasons in writing, designate any other agency to function as State Agency as it considers appropriate.

^B[¹⁹6. Distribution Licensee:

6.1 Each distribution licensee shall indicate along with sufficient proof thereof, the estimated quantum of purchase from renewable sources for the ensuing year in Tariff /Annual Revenue Requirement (ARR) petition in accordance with the regulations notified by the Commission.

¹⁷ Omitted and inserted clause 5.2 of Regulation 5, vide Second amendment (B), 2015

¹⁸ Omitted and inserted wordings of 5.3 of Regulation 5, vide Second amendment (B), 2015

¹⁹ Inserted new-Regulations 6, 7, 8 and 9, after Regulation 5, vide Second amendment, 2015

6.2 If the Distribution Licensee fails to fulfill the minimum quantum of purchase from renewable energy sources, it shall be liable for penalty as per Regulation 10 of these Regulations.

7. Captive User (s) and Open Access Consumer (s):

- 7.1 Every Captive User and Open Access Consumer shall submit necessary details regarding total consumption of electricity and purchase of energy from renewable sources for fulfillment of RPO on yearly basis on or before 30th April to the State Agency for the previous year.
- 7.2 Captive User (s) and Open Access Consumer (s) shall purchase renewable energy and / or Renewable Energy Certificate (s) as stated in Regulation 3 of these Regulations or generate renewable energy for its own consumption, which shall be considered for RPO purposes only after certification by the State Nodal Agency. If the Captive User (s) and Open Access consumer (s) are unable to fulfill the criteria as specified in Regulation 3 of these Regulations, the shortfall of the targeted quantum would attract payment of regulatory charge as per Regulation 10 of these Regulations.

8. Renewable Energy Pricing:

- 8.1 New Renewable Energy Projects commissioned during the operative period shall have an option of following, either the tariff pricing structure, as may be stipulated in the relevant technology specific tariff Regulations of the Commission (including project specific tariff decided by the Commission) or adopt the REC mechanism for pricing of the electricity generated from the project.
- 8.2 Project which opt for preferential tariff shall have to continue with the same tariff pricing structure until the validity of Power Purchase Agreement ceases.
- 8.3 Open access consumer receiving electricity from renewable energy sources shall be exempted from the cross-subsidy surcharge determined by the Commission from time to time to the extent of RPO. However, no banking facility shall be provided for supply of electricity from renewable energy sources through open access.

Note 1 – The REC mechanism entails pricing of two components, namely, electricity component and renewable energy component representing environmental attributes of renewable energy generation. For the purpose of the operating period, the effective electricity component price shall be equivalent to "Pooled Cost of power purchase "of the Distribution Licensee, whereas, the price of RECs shall be as discovered in the Power Exchange.

Note 2- "Pooled Cost of Power Purchase" is the weighted average pooled price at which the Distribution Licensee shall purchase the electricity including cost of self-generation, if any, in the previous year from all the long-term and short-term energy suppliers, but excluding those based on renewable energy sources.

Note 3 – The Central Commission, in consultation with the Central Agency and the Forum of Regulators, from time to time prescribes the Floor Price and the Forbearance Price separately for solar and non-solar Renewable Energy Certificate (s).

9. Priority for Open Access:

- 9.1 An entity generating electricity from renewable energy sources irrespective of installed capacity shall have open access to any licensee's transmission system or distribution system or grid, as the case may be, and such a licensee shall provide appropriate interconnection facilities, as far as possible, before commercial operation commences.
- 9.2 The interconnection facilities, whenever provided, shall follow the grid connectivity standards as specified in the Indian Electricity Grid / State Grid Code. ^B

10. Consequences of default

If the obligated entity does not fulfill the renewable purchase obligation as provided in these regulations during any year and also does not purchase the certificates, the Commission may direct the obligated entity to deposit into a separate fund, to be created and maintained by State Agency, such amount as the Commission may determine on the basis of the shortfall in units of RPO and the forbearance price ^B[²⁰decided by the Central Commission]^B. ^B[²¹It shall also

²⁰ Inserted wordings after "forbearance price" in first paragraph of Regulation 10, vide Second (B)

be liable for penalty as may be provided by the Commission under Section 142 of Electricity Act, 2003. Where any obligated entity fails to comply with the obligation to purchase the required minimum quantum of purchase from renewable energy sources or procure the Renewable Energy Certificate (s), it shall also be liable for penalty as may be decided by the Commission under Section 142 of the Act.^B

- 10.1 That the fund so created shall be utilized as may be directed by the Commission for purchase of the certificates.
- 10.2 Further that the Commission may empower an officer of the State Agency to operate the fund and procure from the Power Exchange the required number of certificates to the extent of the shortfall in the fulfillment of the obligations, out of the amount in the fund.
- 10.3 That the obligated entities shall be in breach of its license condition if it fails to deposit the amount directed by the Commission within 15 days of the communication of such direction.
- ^B[²²10.4 That in case of genuine difficulty in complying with the renewable purchase obligation because of non availability of certificates, the obligated entity can approach the Commission for carry forward of compliance requirement to the next year.

That in case of genuine difficulty in complying with a Renewable Purchase Obligation the obligated entity can approach the Commission for carry forward of compliance requirement to the next year. However, credit for excess renewal energy purchase would not be adjusted in the next year.

Provided that where the Commission has consented to the carry forward of compliance requirement, the provision of penalty as mentioned in the first paragraph of this Regulation or the provision of section 142 of the Act shall not be invoked.

Provided further that the penalty enforced by the Commission on the obligated entity shall not be a pass through in the Aggregate Revenue

amendment, 2015

Omitted and Inserted lines in first paragraph of Regulation 10, vide Second amendment (B), 2015

²² Omitted and inserted sub-Regulation 10.4 of Regulation 10, vide Second amendment (B), 2015

Requirement (ARR) in case the obligated entity is the licensee / deemed licensee. The licensee is the obligated entity is the licensee in the licensee in the licensee is the obligated entity is the licensee in the licensee.

^B[²³11.Power to Relax:

The Commission may, by order, for reasons to be recorded in writing, and after giving an opportunity of being heard to the parties affected or likely to be affected, relax any of the provisions of these Regulations on its own or on an application made before it by a person which includes any company or body corporate or association or body of individuals whether corporate or not.¹⁸

12. Power to remove difficulties

^B[²⁴If any difficulty arises in giving effect to any of these Regulations, the Commission, may, by general or specific order, direct the generating company / licensee to do or undertake things which in the opinion of the Commission are necessary or expedient for removing the difficulties.

- 12.1 In case of any difficulty in giving effect to any of the provisions of these Regulations, the Commission may by order, issue appropriate directions to any generating company, Distribution Licensee, captive user and open access consumer, to take suitable action, not being inconsistent with the provision of the Act, which appear to the Commission to be necessary or expedient for the purpose of removing the difficulty.
- 12.2 Any generating company, Distribution Licensees, captive user, open access consumers may make an application to the Commission and seek suitable orders to remove any difficulty that may arise in implementation of these Regulations.^B

13. Power to amend

The Commission, may, at any time, vary, alter, modify ^B[²⁵er amend *or repeal*]^B any provisions of these Regulations.

²³ Inserted new Regulation 11, vide Second amendment (B), 2015

²⁴ Omitted and inserted Regulation 12, vide Second amendment (B), 2015

²⁵ Omitted and inserted wordings in Regulation 13, vide Second amendment (B), 2015

14. Review of regulations

The Commission, at the end of every three years from the date of publishing these Regulations or even earlier if considered just, proper and desirable by it considering the circumstances then prevailing, shall undertake a comprehensive review of these Regulations with the objective of improvement in the principles, procedures and methodologies.

^B[²⁶Nothing in these Regulations shall be deemed to limit or otherwise affect the inherent powers of the Commission to make such orders as may be necessary to meet the ends of justice or to prevent abuse of the process of the Commission.

Nothing in these Regulations shall bar the Commission from adopting in conformity with the provisions of the Electricity Act 2003 (36 of 2003) a procedure, which is at variance with any of the provisions or these Regulations, if the Commission, in view of the special circumstances of a matter or class of matters and for reasons to be recorded in writing, deems it necessary or expedient for dealing with such a matter or class of matters.

Nothing in these Regulations shall, expressly or impliedly, bar the Commission dealing with any matter or exercising any power under the Electricity Act 2003 (36 of 2003) for which no Regulations have been framed, and the Commission may deal with such matters, powers and functions in a manner it thinks fit. ^B

(J. S. Sehrawat) Secretary

 $^{^{\}rm 26}\,$ Omitted and inserted Regulation 14, vide Second amendment (B), 2015