

ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

INTERIM BALANCING AND SETTLEMENT CODE FOR OPEN ACCESS TRANSACTIONS

Regulation No. 2 of 2006

(Published in Andhra Pradesh Gazette Part-II Extraordinary on August 11, 2006)

INTRODUCTION:

In terms of provisions of Section 42(2) of the Electricity Act, 2003, the Commission notified the APERC (Terms and Conditions of Open Access) Regulation, 2005 (No.2 of 2005), which came into force w.e.f. 01-07-2005. Clause 19.4 of that Regulation provides that the balancing and settlement of energy and demand shall be done in accordance with the Balancing and Settlement Code to be approved by the Commission. The Commission has also been expressing its keenness to introduce the ABT regime at the State level. Pending finalization of a comprehensive settlement system for the State pool under ABT, the Commission considered it appropriate to specify an Interim Balancing and Settlement Code, envisaging a day-ahead wheeling schedule of energy on the basis of 15-minute time blocks, and monthly settlement of deviations. The Commission accordingly formulated a draft Regulation, published the same in the Andhra Pradesh Gazette on 06.08.2005, and issued a press release seeking comments/suggestions from all stakeholders and the public at large and also placed it on the website of the Commission. 36 persons/organizations including Transmission Licensee and Distribution Licensees have responded to the publication by sending their comments/suggestions in writing. The Commission has considered all these comments/suggestions, made modifications as considered appropriate and finalised the Regulation.

In exercise of the powers conferred by Section 181 read with Sections 42 (2), 66 and 94 (2) of the Electricity Act 2003 (36 of 2003) and all other powers enabling it in that behalf, the Andhra Pradesh Electricity Regulatory Commission hereby makes the following Regulation, namely:

First amendment Regulation 1 of 2013 to the Principal Regulation 2 of 2006

(This Regulation came in to effect from 02.05.2013)

INTRODUCTION:

Andhra Pradesh Electricity Regulatory Commission notified Regulation No.2 of 2006(interim Balancing & Settlement Code for Open Access Transactions) in A.P. Extraordinary Gazette dated 11th August

2006, in the matter of guidelines to the licensees & intra State Open Access Users in the State of Andhra Pradesh, in the matters of Scheduling of OA Transactions, Meter Readings, Energy Accounting & Settlements at Entry Point & Exit Points for electricity generators and banking conditions for Mini-Hydel & Wind Generators etc.

In this Principal Regulation, Solar Energy has not been included as a source of renewable power. The Commission considers it necessary to include Solar Energy as one of the types of renewable power to enable all round development of solar capacity additions and open access transactions, compliance to Renewable Power Purchase Obligation (RPPO) on the part of Open Access Consumers for Solar energy.

A draft of the proposed Regulation has been notified in the official website of APERC on 19-12-2012 inviting objections and suggestions from interested persons/stakeholders by 09-01-2013. Ten objections/suggestions have been received within due date and Commission has examined the suggestions/objections made and taken into consideration while finalizing the Amendment Regulation.

Now therefore, the Commission in exercise of the powers conferred by section 181 read with Sections 42(2), 66 & 94(2) of the Electricity Act, 2003 and all other powers enabling it in that behalf, hereby, makes the following (Interim Balancing & Settlement Code for Open Access Transactions) First Amendment Regulation, 2013 to include Solar Energy as one of the sources of renewable power, therein, namely;

Second amendment Regulation 2 of 2014 to the Principal Regulation 2 of 2006

(This Regulation came in to effect from 01.04.2014)

INTRODUCTION:

Whereas the A.P. Electricity Regulatory Commission (hereinafter referred to as “the Commission”) notified the Andhra Pradesh Electricity Regulatory Commission (Interim Balancing & Settlement Code for Open Access Transactions) Regulation, 2006 (No.2 of 2006) in A.P. Extraordinary Gazette dated 11th August, 2006 (Principal Regulation).

The said principal regulation contained the guidelines to the licensees & intra State Open Access Users in the State of Andhra Pradesh, in the matters of scheduling of OA transactions, meter readings, energy accounting & settlements at entry point & exit points, banking conditions for Mini-hydel & Wind Generators, etc.

And whereas the Government of Andhra Pradesh has issued Solar Power Policy 2012, vide GO Ms. No.39, dated 26-09-2012 and amendment to it vide GO Ms. No.44, dated 16-11-2012, inter-alia to promote generation of Solar Power in the state. The objective of the said Solar Policy is to encourage, develop and promote solar power generation in the state with a view to meet the growing demand for power, in an environmentally and economically sustainable manner.

Vide the amendment Regulation No.1 of 2013 notified on 02-05-2013, to the APERC Interim Balancing & Settlement Code for Open Access Transactions Regulation (No.2 of 2006), the Commission has included Solar energy as one of the sources of renewable energy.

The Solar policy issued by the GoAP vide GO Ms. No.39 & GO Ms. No.44 as stated above, inter alia, envisages a more conducive environment for Solar developers, which requires necessary amendments to the principal regulation.

Accordingly, the Commission has published a draft Regulation in its website on 25-02-2014 and invited comments & suggestions from the interested persons/stakeholders. Commission has also conducted public hearing on 12-03-2014.

Having due regard to the suggestions/comments received, in exercise of the powers vested with it u/s 181 of the Electricity Act, 2003 read with section 86 (1) (e) and section 66 and all other enabling powers, the Commission makes the following Amendment Regulation to the said Regulation No.2 of 2006, namely:

Third amendment Regulation 2 of 2016 to the Principal Regulation 2 of 2006

(This Regulation came in to effect from 08.01.2016)

PREAMBLE:

The Andhra Pradesh Electricity Regulatory Commission (hereinafter referred to as the Commission) has issued and notified the Andhra Pradesh Electricity Regulatory Commission (Interim Balancing and Settlement Code) Regulation, 2006 (Regulation No.2 of 2006) in A.P. Extra Ordinary Gazette on 11-08-2006.

The said Principal Regulation No.2 of 2006 contained the guidelines to the Licensees and intra-state Open Access users in the State of Andhra Pradesh, in the matters of scheduling of Open Access transactions, meter readings, energy accounting & settlements at entry points & exit points, banking conditions for Mini-Hydel and Wind Power

Projects etc. This Regulation No.2 of 2006 was first amended vide Regulation No.1 of 2013 and notified on 02-05-2013 and secondly vide Regulation No.2 of 2014 notified on 01-04-2014, to be in line with the Solar Power Policy issued vide G.O.Ms.No.39, dated 26-09-2012 and amendment to it vide G.O.Ms.No.44, dated 16-11-2012.

Whereas the Government of Andhra Pradesh has issued the new Solar Power Policy, 2015 and new Wind Power Policy, 2015 vide G.O.Ms.No.8, dated 12-02-2015 and G.O.Ms.No.9, dated 13-02-2015 superseding the earlier Solar Power Policy, 2012 and Wind Power Policy, 2008 inter alia, to meet the twin objectives of energy security and clean energy development.

And whereas the Government of Andhra Pradesh vide its letter No.348/Power.II(2)/2015, dated 09-03-2015, citing the provisions of Section 108 of the Electricity Act, 2003 requested the Andhra Pradesh Electricity Regulatory Commission to adopt and issue necessary Regulations / Orders for giving effect to the Andhra Pradesh Solar Power Policy, 2015 and the Andhra Pradesh Wind Power Policy, 2015.

Among other things, the above policies provide certain incentives in respect of the following items/parameters (which come under the purview of the Commission and require amendments to the existing Regulations) to the Solar and Wind Power Projects commissioned during the operative periods of the policies viz., from 12-02-2015 to 11-02-2020 in respect of Solar Power Projects and from 13-02-2015 to 12-02-2020 in respect of Wind Power Projects in the State of Andhra Pradesh.

(A) Energy Banking

Para 4(c) of Solar Power policy, 2015 and Para 8(c) of Wind Power Policy, 2015“Energy injected into the grid from date of synchronization to Commercial Operation Date (COD) will be considered as deemed energy banking.”

“The unutilized banked energy shall be considered as deemed purchase by DISCOM (s) at the pooled power purchase cost as determined by the APERC for the applicable year. Energy settlement shall be done on monthly basis.”

(B) Contract Demand

Para 4(g) of Solar Power Policy, 2015

“Scheduled consumers shall avail reduction in Contract Demand for a period of Five (5) years from the date of commissioning of the project. Scheduled consumers shall have the same meaning as

defined in the Balancing and Settlement Code regulations issued by APERC and amended from time to time. The demand credit shall be computed based on the average solar power consumption during hourly time block period(s). An illustration is shown below:

- * Solar Power Consumption in a month (kVAh) = 1000
- * Hourly time blocks in a month (hours) = 24 x 30 = 720
- * Applicable demand credit = $1000/720 = 1.38$ (kw).”

Accordingly, the Commission has published Draft Regulation on its website on 27-08-2015 and invited comments / views / suggestions from all the stakeholders/interested parties. The Commission has also conducted public hearing on 19-12-2015.

During the public hearing and also through written views submitted to the Commission, there were several requests from both the Solar and Wind power developers and the Government of Andhra Pradesh to make the new Regulation applicable from the dates of issue of the Solar and Wind Power Policies by the Government of Andhra Pradesh.

Having regard to the views/suggestions/comments received and the request made by the Government of Andhra Pradesh, in exercise of powers vested with it under Section 181 (1) read with Sections 39 (2) (d) (ii), 40 (c) (ii), 42 (2), 42 (3), 42 (4) and 86 (1) (e) of the Electricity Act, 2003 (Central Act 36 of 2003) and all other powers enabling in this behalf including those conferred by the Andhra Pradesh Reform Act, 1998 (State Act 30 of 1998) and the Andhra Pradesh Reorganization Act, 2014 (Central Act 6 of 2014), the Andhra Pradesh Electricity Regulatory Commission hereby makes the following Amendments to the Principal Regulation viz., Andhra Pradesh Electricity Regulatory Commission Regulation (Interim Balancing and Settlement Code) Regulation, 2006 (Regulation No.2 of 2006):

Principal Regulation 2 of 2006

(This Regulation came in to effect from 01.12.2006)

(All amendments are incorporated in this Regulation)

1 SHORT TITLE, COMMENCEMENT AND INTERPRETATION

- (a) This Regulation may be called the Andhra Pradesh Electricity Regulatory Commission (Interim Balancing and Settlement Code) Regulation, 2006.
- (b) This Regulation shall extend to the whole of Andhra Pradesh.
- (c) This Regulation shall come into force on 01.12.2006.

2 DEFINITIONS

In this Regulation, unless the context otherwise requires: -

- (a) “Act” means the Electricity Act 2003 (36 of 2003);
- (b) “APERC” or “Commission” means the Andhra Pradesh Electricity Regulatory Commission;
- (c) “Billing month” means the period between any two successive meter-reading dates, as provided in the Open Access Agreement;
**** [c(2) “Banking” means a facility through which the unutilized portion of energy (under utilization or excess generation over and above scheduled wheeling) from any of the three renewable generation sources namely Wind, Solar and Mini-hydel, during a billing month is kept in a separate account and such energy accrued shall be treated in accordance with the conditions laid down in Appendix-3 of the Regulation].**
- (d) “Distribution Licensee” or “DISCOM” means a licensee authorised to operate and maintain a distribution system for supplying electricity to the consumers in his area of supply;
- (e) “Losses” means the energy losses in percentage for an EHT system as a single system and for all other voltage levels, the losses in percentage as provided in the applicable Tariff Order of the Commission, or the actual levels of energy losses as provided in this Regulation.

Explanation –

- (i) If the wheeling of electricity is through the distribution system of more than one distribution licensee or if the Entry/Exit point is connected to EHT system, the losses would include the transmission loss and the distribution loss up to the voltage level of the distribution licensee in whose area of supply such exit/entry point (whichever is lower) is located
- (ii) If the entry and exit points are located within the distribution system (33 kV and below) of the same distribution licensee, the losses would include only the distribution loss of the distribution licensee up to the voltage level at the relevant exit or the entry point(s), whichever is lower.
- (f) “Scheduled Consumer” means a consumer who has a supply agreement with the distribution licensee in whose area of

supply the consumer is located and also has a supply agreement with a person other than the distribution licensee under the Open Access Regulation and includes a consumer of a distribution licensee who also avails of wheeling facility for carrying the electricity from his captive generating plant to the destination of his own use.

- (g) “Time Block” means each block of fifteen (15) minutes for which the energy meters record specified electrical parameters and quantities, with the first time block for a day starting at 00:00 hours.
- (h) “Open Access Agreement” means an agreement entered into between the Transmission and / or Distribution Licensees and the persons availing Open Access facility under clause 12 of the Open Access Regulation.
- (i) “Open Access Consumer” or “OA Consumer” means a consumer not having a supply agreement with the distribution licensee in whose area of supply the consumer is located, but availing or intending to avail supply of energy from a person other than that distribution licensee under the Open Access Regulation and includes a consumer availing wheeling facility for carrying the electricity from his captive generating plant to the destination of his own use without having a supply agreement with the distribution licensee of the area in which the consumer’s premises is located.
- (j) “Open Access Regulation” means the A.P. Electricity Regulatory Commission (Terms and Conditions of Open Access) Regulation, 2005 (Regulation No.2 of 2005).
- (k) “Open Access Generator” means a generating company using or intending to use the transmission system and/or the distribution system of the licensees in the State for supply of electricity to a Scheduled Consumer or OA Consumer under the Open Access Regulation.
- (l) “State” means the State of Andhra Pradesh.
- (m) “Wheeling schedule” means the schedule for a fifteen (15) minute time block provided by the Scheduled Consumer, an OA Consumer or an OA Generator, to the SLDC, pursuant to clause 4 of this Regulation, read with clause 6.
- (n) The words and expressions used in this Regulation and not defined herein but defined in the Open Access Regulation shall have the same meaning as assigned to them in the

Open Access Regulation and those not also defined in the Open Access Regulation but defined in the Act, shall have the same meaning as assigned to them in the Act.

3 EXTENT OF APPLICATION

The Interim Balancing & Settlement Code set out in this Regulation shall apply to Open Access Generators, Scheduled Consumers and OA Consumers.

4 SCHEDULING

4.1 Each Open Access Generator, Scheduled Consumer and OA Consumer shall provide a Wheeling Schedule in the format as at Appendix- 1(a), to the SLDC/DISCOM for each fifteen (15) minute time block for a day, on a day-ahead basis by 10:00 a.m. on the day preceding the commencement of the first time block for which the wheeling of energy is scheduled, with a copy each to the State Transmission Utility (APTRANSCO) and the concerned DISCOM:

Provided that an Open Access Generator, Scheduled Consumer and OA Consumer requiring to wheel electricity from more than one generating station with the interface points located at different locations (with separate metering at each entry point) shall provide separate wheeling schedule for the entry point(s) of each generating station:

* [Provided also that the Wind-based, Solar based or Mini-hydel Open Access Generators shall not be required to provide a day-ahead wheeling schedule and the actual electricity injected by them shall be deemed to be the scheduled energy.]

4.2 The OA generators scheduling their supply to more than one scheduled/OA consumer or the scheduled/OA consumer receiving supply from more than one OA generator shall communicate to the SLDC/DISCOM (along with the day-ahead schedule) the inter-se order of allocation of the actual generation among the Schedule/OA consumers or the inter-se order of allocation of the actual consumption among the OA generators as the case may be. Such communication of inter-se order of allocation/consumption to the SLDC/DISCOM shall be deemed to have been done with prior consent of all the parties involved and binding on all the OA generators, Scheduled consumers and OA consumers.

- 4.3 In the event of failure to submit the wheeling schedule in accordance with clause 4.1, the latest wheeling schedule available with the SLDC/DISCOM shall be treated as the effective wheeling schedule.
- 4.4 SLDC shall communicate the final day-ahead schedule to the respective parties along with inter-se order of allocation of consumption/generation capacities wherever applicable as per the time-frame set out in the State Grid Code and the same shall be binding on all parties.

5 ALLOCATION OF CAPACITY BY OA GENERATORS

- 5.1 The sum total of the capacity allocations by an OA Generator for any time block to all the Scheduled Consumers and OA Consumers shall not exceed the available capacity from his generating plant being not higher than the installed capacity or contracted Open Access capacity, whichever is lower.
- 5.2 The OA Generator shall also indicate the allocated capacity in kW at the exit point(s) for each consumer in the Format at Appendix-1 (a) using the loss levels as specified in the applicable Tariff Order of the Commission. The energy account of the billing month shall be finalized based on the transmission and distribution losses specified by the Commission in the applicable Tariff Order.
- 5.3 The SLDC/DISCOM shall verify the capacity allocated at the Exit point(s) and correct it in case of discrepancy, if any. The computations of SLDC shall be final and binding on all.

6 REVISION OF WHEELING SCHEDULE

In case of any system constraint, the SLDC/DISCOM may modify the schedules of Open Access Generators, Scheduled Consumers and/or the OA Consumers, as the case may be, at any time in accordance with the Grid Code and the Open Access Regulation, which shall be conveyed to them. Compliance with the instructions of SLDC shall not be reckoned as a deviation by the concerned Generator/Consumer from the schedule. The Open Access Generator, Scheduled Consumer or OA Consumer, shall not, however, be entitled to revise a wheeling schedule during the course of a day.

7 METER READING, ENERGY ACCOUNTING AND SETTLEMENT

- 7.1 SLDC shall undertake the accounting of energy for each time block on monthly basis with the assistance of the Energy Billing Centre (EBC) of the State Transmission Utility (STU) in

respect of the Open Access Generators, Scheduled Consumers and the OA Consumers who are connected to the transmission system, In respect of the Open Access Generators, Scheduled Consumers and the OA Consumers who are connected to the distribution system, it is the EBC that shall be responsible for energy accounting and settlement in co-ordination with the DISCOMs.

- 7.2 Such Account shall be examined and signed by a Committee comprising the STU, DISCOMs and Generators:

Provided that in the case of Generators, only one representative, as approved by the Commission, from each class of Generators mentioned below shall be represented on the Committee:

- Central Generating Stations (CGS)
- APGENCO
- Independent Power Producers (IPPs)
- *[•Non-conventional Energy (NCE) Developers (Biomass, Mini-hydel, Hydro, Wind, *Solar etc.)]
- Captive Power Plants (CPPs)

- 7.3 The monthly meter readings shall be taken by the respective DISCOM at all the entry points at 33 kV and below and at all the exit point(s) of the Open Access Generators located in its licensed area, as identified in the wheeling schedules. Where, however, the entry point is connected to the Transmission system, such monthly readings shall be taken by the Transmission Licensee:

Provided that the readings for each time block shall be retrieved through a Meter Reading Instrument (MRI) or otherwise by the respective Licensees mentioned above once in a week and shall be transmitted to the SLDC. The meter readings as and when taken shall also to be made available to the Open Access Generator/Consumer in whose premises the readings are taken, or to his representative, if available.

In case of failure of metering equipment or non-availability of MRI data, a suitable methodology as approved by the Commission may be employed for finalising the energy account. The Licensees may submit proposed data- substitution methodology for Commission's approval within one month of issue of this Regulation.

7.4 The SLDC shall finalize the energy account of the Open Access transactions of a billing month with the assistance of EBC and arrive at the deviations for each time block and the consequent adjustments integrated over the month in respect of all Open Access Generators, Scheduled Consumers and the OA Consumers in accordance with the procedure specified herein.

8 SETTLEMENT OF ENERGY/DEMAND AT EXIT POINT IN RESPECT OF SCHEDULED CONSUMER

8.1 The Scheduled energy (in kWh) at exit point shall be calculated for each time block from the scheduled capacity (kW) at the Exit point, as provided in the wheeling schedule, by multiplying it with the period of time block in hours.

8.2 The Scheduled demand at exit point shall be calculated by dividing the scheduled capacity (kW) at exit point by the power factor for the time block, for which purpose the Power factor shall be equal to the recorded kWh divided by kVAh.

8.3 The Scheduled energy of a Scheduled Consumer from an OA Generator for each time-block shall be deducted from the recorded energy (in the inter-se order of such Generators, as and if intimated by the consumer, in case the consumer is availing of energy from more than one Generator) as a first charge. The balance energy shall be deemed to have been supplied by the DISCOM and shall have to be paid for as per the terms of the supply agreement with the DISCOM:

Provided that where there is a deviation between the scheduled capacity and actual capacity being injected at an Entry point in a time block, the shortfall, if any, in the capacity allocated to the Scheduled Consumer shall be deemed to have been drawn by the Scheduled Consumer from the DISCOM and the energy corresponding to such shortfall shall be paid for by the party which has contracted for the Open Access capacity with the Licensee to the DISCOM as per the energy tariff applicable for the same consumer category of DISCOM under which the Scheduled Consumer would normally fall.

8.4 The Scheduled demand at Exit point or the actual demand made available to a consumer from each OA Generator at that Exit point in a time-block whichever is less, shall be deducted from the recorded demand (in the inter-se order of such Generators, as confirmed by the SLDC while finalising

the day-ahead schedule, in case the consumer is availing of energy from more than one Generator). The balance demand for each time-block shall be deemed to have been consumed from the DISCOM and shall be paid for as per the terms of the supply agreement with the DISCOM.

- *** 8.5 The Scheduled consumers sourcing power from such Solar Power Projects as mentioned in the Andhra Pradesh Solar Power Policy, 2015 issued vide G.O.Ms.No.8, dated 12-02-2015 shall be entitled to avail reduction in contracted demand with Discom for a period of five (5) years from the date of commissioning of such projects. The reduction in contracted demand shall be computed based on the average Solar Power consumption during hourly time block period (s) in a billing month i.e., total solar power consumption (kVAh) in a billing month divided by the number of hours in the billing month.

9 SETTLEMENT OF ENERGY AT EXIT POINT IN RESPECT OF OA CONSUMERS:

- 9.1 The Scheduled Energy at Exit point of an OA Consumer shall be calculated from the Scheduled capacity from an OA Generator at the Exit point for each time block as provided in clause 8.1 above.
- 9.2 In case the Open Access Consumer is receiving supply from more than one Open Access generator, the total energy and demand recorded shall be deemed to have been consumed from the respective Open Access Generators in the inter-se order of Generators as confirmed by the SLDC while finalizing the day-ahead schedule.
- 9.3 The excess energy recorded, if any, at the exit point for any time block with reference to scheduled energy or the actual energy available at that Exit point, whichever is less, shall be deemed to have been consumed by the Generator or the OA consumer whoever has contracted for the Open Access capacity with the Licensee, from the DISCOM and shall be paid for by the Open Access Generator/Consumer at the energy tariff applicable for the same consumer category of DISCOM to which the OA Consumer would normally belong. Such excess consumption shall also attract all penal provisions provided in the applicable Tariff Order like those in respect of Low Power Factor, voltage surcharge, etc and wherever applicable, the relevant charges shall also be paid for by the OA generator/OA consumer.

9.4 The Scheduled demand at Exit point or the actual demand made available to a consumer from each OA Generator at that Exit point in a time-block whichever is less, shall be deducted from the recorded demand (in the inter-se order of such Generators, as confirmed by the SLDC while finalising the day-ahead schedule, in case the consumer is availing of energy from more than one Generator). The balance demand for each time-block shall be deemed to have been consumed from the DISCOM and shall be paid at twice the demand charges applicable for the same consumer category of DISCOM to which the OA Consumer would normally belong.

10 SETTLEMENT FOR OA GENERATORS AT ENTRY POINT:

10.1 The excess draws of energy and demand by Scheduled Consumers on account of under-generation by the Generator for each time block shall be deemed to have been drawn from the DISCOM. The energy and demand charges for such excess draws shall be paid for by the Scheduled Consumer in accordance with the proviso to clause 8.3 and as per clause 8.4 respectively.

10.2 The excess drawal of energy and demand by an OA Consumer on account of under-generation by the Generator for each time block shall be deemed to have been drawn by the Generator (or Open Access Consumer whoever has contracted for Open Access Capacity) and shall be paid for by the Generator/Consumer as per the normal energy tariff and twice the demand charges applicable for the same consumer category to which the OA Consumer would normally belong.

10.3. The underdrawals by Scheduled Consumers and/or OA Consumers shall have impact on the Generator and on the DISCOM in whose area of supply the Exit point is located. Such underdrawals at Exit point shall be treated as inadvertent energy supplied by the Generator to the DISCOM(s) and shall not be paid for by the DISCOM.

****[Provided that, such under draws shall be treated as input into Banking in accordance with clause 2(c)(2), if such energy is sourced from Wind, Solar and Mini-hydel Generators].**

10.4. Injection of energy by an OA Generator over and above the

scheduled capacity at an Entry point shall not be accounted for. In such cases, only the scheduled capacity at exit point shall be accounted for as having been supplied by the Generator to the Scheduled Consumer or the OA Consumer, as the case may be.

*10.5. In case of wind, mini-hydel and Solar OA generators the actual generation during the month shall be deemed as scheduled energy. For the purpose of settlement in respect of scheduled/OA consumer availing supply from these OA generators, the actual generation during the month will be apportioned for each time block of the month and deviations reckoned accordingly.

11 LEVY OF SURCHARGE AND ADDITIONAL SURCHARGE:

Each Open Access Generator, Scheduled Consumer and OA Consumer shall, in addition to the tariff and other charges mentioned in the preceding clauses, also be required to pay, wherever applicable, the surcharge in accordance with the provisions of the Open Access Regulation as also the applicable additional surcharge, if any, under Section 42 (4) of the Act.

12 BANKING

*12.1 No generators other than the Wind, Mini Hydel and Solar power generators shall be allowed the facility of banking the electricity generated by them:

Provided that in the case of existing users of wheeling facility, the energy already banked as per the subsisting agreements as on the date of coming into force of this Regulation, shall be allowed to be wheeled as hithertofore till the expiry of the balance

period available for utilization of the banked energy:

Provided, however, that in the case of generators whose cases are pending appeals in the Hon'ble High Court of Andhra Pradesh and/or the Hon'ble Supreme Court, this provision shall be applicable subject to the final decision of the High Court and / or the Supreme Court, as the case may be.

*12.2 The banking facility to the Wind, Mini Hydel and Solar power generators shall be subject to the conditions specified in Appendix – 3.

13 DISPUTE RESOLUTION

All disputes and complaints shall be referred to the SLDC for resolution, which shall not decide a matter without first affording an opportunity to the concerned parties to represent their respective points of view. The decisions of the SLDC shall be binding on all parties.

14 ISSUE OF ORDERS AND PRACTICE DIRECTIONS

Subject to the provisions of the Act, the A.P Electricity Reform Act, 1998, and this Regulation, the Commission may, from time to time, issue orders and practice directions in regard to the implementation of this Regulation, the procedure to be followed and other matters, which the Commission has been empowered by this Regulation to specify or direct.

15 POWER TO REMOVE DIFFICULTIES

In case of any difficulty in giving effect to any of the provisions of this Regulation, the Commission may by general or special order, issue appropriate directions to Open Access Generators, Scheduled Consumers, OA Consumers, Transmission Licensee(s), Distribution licensee(s) etc., to take suitable action, not being inconsistent with the provisions of the Act, which appear to the Commission to be necessary or expedient for the purpose of removing the difficulty.

16 SAVING

Nothing contained in this Regulation shall affect the rights and privileges of the Consumers under any other law for the time being in force, including the Consumer Protection Act, 1986 (68 of 1986).

17 POWER TO AMEND

The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provisions of this Regulation.

(BY ORDER OF THE COMMISSION)

S. SURYA PRAKASA RAO
Commission Secretary

APPENDIX – 1 (b)
Computation of Net capacity at the Exit point

Date:

Declared capacity for the day

Name of the Generator: Z in SPDCL

Entry point voltage: 132 KV

Time block	Available Capacity

DISCOM	Name of the consumer	Voltage level of Exit point	Time Blocks	Allocated capacity at Entry point	Net capacity at Exit point kW
SPDCL	1. Sch. Consr.	11 kV	1 to 96	1,000	830.80
	2. Sch. Consr.	132 kV	1 to 96	2,000	1900.00
	3. OA Consr.	33 kV	1 to 96	1,000	893.40
Total for SPDCL					
CPDCL	1. Sch. Consr.	11 kV	1 to 96	1,000	827.20
	2. Sch. Consr.	33 kV	1 to 96	3,000	2676.60
	3. OA Consr.	132 kV	1 to 96	5,000	4750.00
Total for CPDCL					
	1. Sch. Consr.	11 kV	1 to 96	1,000	821.00
	2. OA Consr.	33 kV	1 to 96	2,000	1778.60
Total for NPDCL					
EPDCL	1. Sch. Consr.	11 kV	1 to 96	1,000	818.90
	2. OA Consr.	33 kV	1 to 96	3,000	2636.70
Total for EPDCL					
Grand Total				20,000	17983.20

N.B.: In the Table above, the following loss levels have been taken into consideration, sourced from the Commission's Tariff Order for FY 2005-06. The loss levels of corresponding FY as per the Tariff Order of the Commission for the relevant year should be taken for computation of the net capacity at exit point.:

Transmission losses = 5%

Distribution losses up to the Voltage level of exit point (Percentage)

Voltage	SPDCL	CPDCL	NPDCL	EPDCL
33 kV	5.66	5.78	6.07	7.11
11 kV	11.92	12.28	12.90	13.11
LT	20.44	20.50	23.05	21.30

Example for calculation of Losses: OA Consumer 3 of SPDCL

→132 kV + Losses up to 33 kV →(5+5.66=10.66%)

→1000 X 10.66/100 = 106.60 kW

APPENDIX – 2

(A).Where Generator is Generating at the level of Scheduled Capacity:

(kW)

DISCOM	Consumer	Sch. Cap at Exit Point	Recorded consumption	Accountable to Generator	Accountable to DISCOM	Deviation at Exit point
SPDCL	1. Sch. Consr.	830.80	1000	830.80	169.20	Nil
	2. Sch. Consr.	1900.00	2000	1900.00	100.00	Nil
	3. OA Consr.	893.40	1200	893.40	306.60	306.60
	4. Sch. Consr.	827.20	600	600.00	0.00	(-) 227.70
	5. Sch. Consr.	2676.60	3000	2676.60	323.40	Nil
	6. OA Consr.	4750.00	4000	4000.00	0.00	(-) 750.00
	7. Sch. Consr.	821.00	1100	821.00	279.00	Nil
	8. OA Consr.	1778.60	1900	1778.60	121.40	121.40
	9. Sch. Consr.	818.90	1200	818.90	381.10	Nil
	10. OA Consr.	2636.70	2500	2500.00	0.00	(-) 163.30

(B). Where Generator is under Generating w.r.t Scheduled Capacity:
 Scheduled capacity = 20,000 kW Actual capacity = 18,000 kW

Consumer	Sch. Cap at Entry	Sch. Cap at Exit Point	Actual capacity at	Actual capacity at	Recorded consumption	Deviation
1. Sch. Consr.	1000	830.80	900	747.72	1000	83.08
2. Sch. Consr.	2000	1900.00	1800	1710.00	2000	190.00
3. OA Consr.	1000	893.40	900	804.06	1200	395.94
4. Sch. Consr.	1000	827.20	900	744.48	600	(-) 144.48
5. Sch. Consr.	3000	2676.60	2700	2408.94	3000	267.66
6. OA Consr.	5000	4750.00	4500	4275.00	4000	(-) 275.00
7. Sch. Consr.	1000	821.00	900	738.90	1100	82.10
8. OA Consr.	2000	1778.60	1800	1600.74	1900	299.26
9. Sch. Consr.	1000	818.90	900	737.01	1200	81.89
10. OA Consr.	3000	2636.70	2700	2373.03	2500	126.97

***APPENDIX-3

Terms & conditions for banking facility allowed to Wind/Solar/Mini-Hydel power generators:

1. Banking allowed during all the 12 months.
2. The energy injected in to the grid from such Solar and Wind Power Projects as mentioned in G.O.Ms.No.8, dated 12-02-2015 and G.O.Ms.No.9, dated 13-02-2015 from the date of synchronization to the Commercial Operation Date shall be considered as deemed banked energy.
3. Drawals are subject to the following conditions:
 - a. The Banking year shall be from the 1st day of April to 31st day of March of the succeeding year (i.e. Financial Year).
 - b. Banking charges shall be in kind @ 2% of the energy delivered at the point of drawl.
 - c. Drawals from banked energy shall not be permitted during the five (5) month period from 1st April to 30th June and 1st February to 31st March of each financial year. In addition, Drawal of banked energy during the Time of the Day (TOD) applicable during peak hours, as specified in the respective Retail Supply Tariff Order, shall also not be permitted throughout the year.
 - d. The energy banked between the period from 1st April to end of 31st January of each financial year which remains unutilized as on 31st January, shall be deemed to have been purchased by DISCOMs as per the wheeling schedule. The energy credited in to bank during the month of February and March of each financial year will be carried forward to the month of April of the next year.
 - e. Generators have to communicate time block wise banked energy withdrawal schedule and allocations to respective Open Access/Scheduled consumers at least ten (10) days before the commencement of billing cycle.
 - f. The purchase price payable by the Discoms for unutilized banked energy will be equivalent to 50% of the Pooled Cost of Power Purchase, applicable for that financial year, as

determined by the Commission under RPPO / REC Regulation (1 of 2012). Discoms shall settle such purchase transactions with the generators by 31st March of each year.

Provided the unutilized banked energy from such Solar and Wind Power Projects and for such operative periods as mentioned in G.O.Ms.No.8, dated 12-02-2015 and G.O.Ms.No.9, dated 13-02-2015 shall be considered as deemed purchase by Discom(s) at the Pooled Power Purchase cost, applicable for that financial year, as determined by the Commission under RPPO / REC Regulation (Regulation No.1 of 2012). Discom (s) shall settle such purchase transactions with the generators by 31st March of each year.

* Vide Amendment Regulation 1/2013

** Vide Amendment Regulation 2/2014

*** Vide Amendment Regulation 2/2016