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POWER PURCHASE AGREEMENT

BETWEEN

SOUTHERN POWER DISTRIBUTION COMPANY OF A.P. LIMITED AND

M/S.PUJAA SHREE GREEN RENEWABLE ENERGY WON PRIVATE LIMITT'ED

This Power Purchase Agreement (the "Agreement") entered into this day of November 2018 between Southern Power Distribution Company of AP Limited (DISCOM), incorporated by the Government of Andhra Pradesh in accordance with the Andhra Pradesh Electricity Reform Act 1998 (Act No.30 of 1998), under the provisions of Companies Act, 1956, having its office at 19-13-65/A, Ragavendra Nagar, Kesavayana Gunta, Tiruchanoor Road Tirupati, Pin-517501, AF, India, hereinafter referred to as the "DISCOM" (which expression shall, unless repugnant to the context or meaning thereof, include its successors and assigns) as first party, and M/s. Pujaa Shree Green Renewabie Energy Won Private Limited, a company incorporated under companies Act, 1956, having registered office at SF No.594/2, Manikarar Thottam Varapatti, Sultanpet (Post) Coimbatore 641 669, India

For Pujas Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGER
P & MM & IPC
APSPDCL :: TIRUPATI

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hereinafter referred to as the "Wind Power Producer" (which expression shall, unless repugnant to the con-text or meaning thereof, include its successors and assigns) as second party.

- 2. WHEREAS, the Wind Power Producer is setting up the New and Renewable Energy Project i.e., the 2.1 MW capacity Wind power project at Belguppa in Anantapuram District, Andhra Pradesh (hereafter called the Project,) with a proposal of 0.0105 MW for Auxiliary Consumption and 2.0895 MW for export to grid for Sale to DISCOM as detailed in Schedule-I attached herewith, and New and Renewable Energy Development Corporation of Andhra Pradesh Limited hereafter referred to as M/s NREDCAP has accorded approval to the said project in their Proceedings No.NREDCAP/ WE/ Axis/ 503 / 2016, dt.30.05.2016 and NREDCAP/ WE /Axis / 503 /2017/2096, dt.18.12.2017 and the Wind Power Producer has entered into an Agreements with NREDCAP on 06.06.2016 and 18.12.2017 the copies whereof are attached herewith as Schedule-II and Schedule III respectively;
- 3. WHEREAS, it has been agreed that the Project will be designed, engineered and constructed and operated by or on behalf of the Wind Power Producer or its successors with reasonable diligence subject to all applicable Indian laws, rules, regulations and orders having the force of law;
- 4. Whereas, the proposed Project is being setup under cluster of Wind power projects proposed at Belguppa in Anantapuram District, Andhra Pradesh and will be connected to Extra High Voltage (EHV) Pooling Substation to be built for power evacuation from Wind power projects. The Project will share a common metering at line isolator on outgoing feeder on High Voltage (HV) side of the Pooling Substation along with other Wind power projects. The Project will also have a separate metering at Project's switchyard.
- 5. The terms and conditions of the Agreement are subject to the provisions of the Electricity Act, 2003 (36 of 2003) and the amendments made to the act from time to time, and also subject to regulation by the APERC.
- 6. Now therefore, in consideration of the foregoing premises and their mutual covenants herein, and for other valuable consideration, the receipt and sufficiency of which are acknowledged, the parties hereto, intending to be legally bound hereby agree as follows:

For Pujaa Shree Grean Kenewable Energy Won Private Limited

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DEFINITIONS

As used in this Agreement, the following terms shall have the meanings set forth herein below. Defined terms of singular number shall include the plural and vice-versa.

- 1.1 **APTRANSCO:** Transmission Corporation of Andhra Pradesh Limited, incorporated by the Government of Andhra Pradesh.
- 1.2 Billing Date: means the fifth (5th) day after the Meter Reading Date.
- 1.3 **Billing Month:** means the period commencing from 25th of the calendar month and ending on the 24th of the next calendar month.
- 1.4 Commercial Operation Date (COD): means, with respect to each Generating unit, the date on which such Generating unit is declared by the Wind Power Producer to be operational, provided that the Wind Power Producer shall not declare a Generating unit to be operational until such Generating unit has completed its performance acceptance test as per standards prescribed.

Explanation: In respect of Non-conventional based power projects the date of synchronisation of the first unit of the project will be treated as the Commercial Operation Date of the project.

1.5 **Delivered Energy:** means, with respect to any Billing Month, the kilo watt hours (kWh) of electrical energy generated by the Project and delivered to the DISCOM at the Interconnection Point as defined in Article 1.10, as measured by the common energy meter at the Interconnection Point during that Billing Month. As indicated in the preamble, the delivered energy recorded by the common meter shall be sum of energy delivered by all Wind power projects connected to the Pooling Substation.

Explanation 1: For the purpose of clarification, Delivered Energy, excludes all energy consumed in the Project, by the main plant and equipment, lighting and other loads of the Project from the energy generated and as recorded by energy meter at Interconnection Point.

Explanation 2: The delivered energy in a Billing Month shall be limited to the energy calculated based on the Capacity agreed for export to network for sale to DISCOM as mentioned in Preamble and Schedule –I, multiplied with number of hours and fraction thereof the project is in operation during that

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billing month. In case any excess energy is delivered no payment shall be made for the same.

Explanation 3: The Delivered Energy will be equal to energy recorded by the individual meter at Project's switchyard minus apportioned line losses from Project's switchyard to interconnection point and shall be calculated as per the formula mentioned below:

Delivered Energy = X1 - (X1 x Z %)

Where

X1 is the reading of the energy meter installed at the Project's switchyard.

Z% is the line loss incurred in the transmission line between the Project and the Pooling Substation and shall be:

$$\mathbf{z} = \frac{(X1 + X2 + X3 + X4 + ____) - Y}{(X1 + X2 + X3 + X4 + ____)}$$
Where

Y is the reading of the common energy meter installed at interconnection point. X1, X2, X3, X4 etc. are the readings of the energy meters installed at the various individual Wind power projects being developed/proposed to be set up in the area and connected to the Pooling Substation.

- 1.6 **Due Date of Payment:** means the date on which the amount payable by the DISCOM to the Wind Power Producer hereunder for Delivered Energy, if any, supplied during a Billing Month becomes due for payment, which date shall be thirty (30) days from the Meter Reading Date provided the bill is received by DISCOM within 5 days from Meter Reading Date, and in the case of any supplemental or other bill or claim, if any, the due date of payment shall be thirty (30) days from the date of the presentation of such bill or claim to the designated officer of the DISCOM.
- 1.7 Financial Year: shall mean, with respect to the initial Fiscal Year, the period beginning on the Commercial Operation Date and ending at 12.00 midnight on the following March 31. Each successive Financial Year shall begin on April 1 and end on the following March 31, except that the final Fiscal Year shall end on the date of expiry of the Term or on termination of this Agreement, whichever is earlier.
- 1.8 **Installed Capacity:** means the total rated capacity in MW of all the Wind Energy Generators installed by the Wind Power Producer.

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- 1.9 Interconnection Facilities: means all the equipment and facilities, including, but not limited to, all metering facilities, switchgear, substation facilities, transmission lines and related infrastructure, to be installed at the voltage specified in Article 1.20 at the Wind Power Producer's expense from time to time throughout the term of this Agreement, necessary to enable the DISCOM to economically, reliably and safely receive Delivered Energy from the Project in accordance with the terms of this Agreement. As indicated in the preamble, the interconnection facilities beyond Project's switchyard shall be common for Wind Power Producer and other Wind power projects connected to the Pooling Substation.
- 1.10 **Interconnection Point:** means the line isolator on outgoing feeder on HV side of the pooling sub-station i.e., the sub-station at project site of wind farm which consists of step-up transformer(s) and associated switchgear and to the LV side of which, multiple generating unit(s) ie., wind turbine generators are connected.
- 1.11 Meter Reading Date: means mid-day (i.e., noon) of the 24th (twenty-fourth) day of each calendar month, at the Interconnection Point.
- 1.12 **Metering Point:** means points where metering shall be provided for Project and shall be as follows:
- (i) Common meter provided at the Interconnection Point for purposes of recording of Delivered Energy of the Project;
- (ii) Individual meter provided at Project's switchyard;
- (iii) Metering point shall include two separate sets of 0.2 /0.2S class accuracy electronic tri-vector meters as specified in Article 4.1, main meter installed by the Wind Power Producer and the check meter installed by the DISCOM and both sealed by the DISCOM, having facilities to record both export and import of electricity to / from the grid.
- 1.13 **Project:** means the 2.1 MW capacity Wind power project at Belguppa in Anantapuram District, Andhra Pradesh with a proposal of 0.0105 MW for Auxiliary Consumption and 2.0895 MW for export to network for Sale to DISCOM as entrusted to the Wind Power Producer for construction and operation as detailed in Agreement entered into with NREDCAP as shown in Schedule –III attached herewith and includes the metering system.
- 1.14 **Prudent Utility Practices:** means those practices, methods, techniques and standards, that are generally accepted for use in electric utility industries For Pujaa Shrea Green Renewable

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taking into account conditions in India, and commonly used in prudent electric utility engineering and operations to design, engineer, construct, test, operate and maintain equipment lawfully, safely, efficiently and economically as applicable to power stations of the size, service and type of the Project, and that generally conform to the manufacturers' operation and maintenance guidelines.

- 1.15 **Pooling or Receiving Substation:** means 33KV/220 KV SS constructed, owned and maintained by the Wind Power Producer at Belguppa in Anantapuram District for the sole purpose of evacuating energy generated by the Project to the Grid System and for facilitating interconnection between the transmission lines emanating from the Project and the Grid System. As indicated in the Preamble, the Pooling Substation will be common for all Wind power projects connected to the Pooling Substation.
- 1.16 **SLDC:** means the State Load Dispatch Center as notified by the State Government under the provisions of the Electricity Act 2003.
- 1.17 **System Emergency:** means a condition affecting the APTRANSCO's/DISCOM's electrical network which threatens the safe and reliable operation of such system or which is likely to result in the disruption of safe, adequate and continuous electric supply by the APTRANSCO/DISCOM, or which endangers life or property, which condition is affected or aggravated by the continued delivery of Delivered Energy from the Project.
- 1.18 Surcharge on Reactive Power drawn by Wind Farms: means the charges leviable on the reactive power drawn by Wind Farms at the rate of 25 paise (twenty five paise) per KVARh of reactive energy drawn from grid upto 10% of net active energy generated and 50 paise per KVARh for total drawl if reactive energy drawn is more than 10% of net active energy generated. The above mentioned rates are subject to revision as per APERC orders from time to time. The reactive power drawn as recorded by meters at interconnection point includes the reactive power drawn by all the Wind Power Producers in the cluster. As such the reactive power recorded by the meters at the interconnection point shall be shared by all the individual power producers in the ratio of the active energy delivered by them individually.

Explanation 1: Induction generators used in Wind Farms draw reactive power from grid during generator mode and motor mode.

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Explanation 2: Surcharge on reactive power drawn by Wind Farms will be levied on the Wind Power Producer.

- 1.19 **Unit:** When used in relation to the generating equipment, means one set of turbine generator and auxiliary equipment, and facilities forming part of the project and when used in relation to electrical energy, means kilo watt hour (kWh).
- 1.20 **Voltage of Delivery:** means the voltage at which the electrical energy generated by the project is required to be delivered to the APTRANSCO at the Interconnection Point and the Voltage of Delivery is as detailed below:

(Note: Insert Table A or Table B whichever is applicable) TABLE – A

At 33 KV level:

Project interfacing		Specified type of AAAC Conductor	Proposed Wind	
From			power capacity on each 33 KV line	
Wind project	Existing 33/11 KV DISCOM SS	55 sqmm	8 MW	
		100 sqmm	10 MW*	
		150 sqmm		
Wind project	EHT Pooling SS or existing EHT	55 sqmm	8 MW	
	APTRANSCO SS	100 sqmm	12 MW	
		150 sqmm	17 MW**	

^{*} Capacity is restricted considering less load availability in DISCOM SS.

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^{**} As amended vide Commission's order dated 11-07-2012 in O.P.No. 7 of 2012 read with letter dated 04-06-2014 attached herewith as Schedule - IV

At EHT level:

Project interfacing		EHT Level	Proposed Wind pow	
From	То		capacity	
Pooling SS	Existing APTRANSCO EHT SS	132 KV	(i) Up to 50 MW on SC Line (ii) Above 50 MW to 100 MW on DC Line	
Pooling SS	Existing APTRANSCO EHT SS	220 KV	Above 100 MW	

This Project will generate electrical energy at 690 Volts, which will be stepped up to 33 KV at Project's switchyard. The electrical energy will be further stepped up from 33 KV to 220 KV at Pooling Substation and delivered to the grid. (And the developer has to construct 220 KV pooling station at generating site and shall connect radially to LV Bus of upcoming 400/220 KV Uravakonda – I SS.)

1.21 All other words and expressions, used herein and not defined herein but defined in Indian Electricity Rules 1956, AP Electricity Reform Act, 1998 and the Electricity Act, 2003 shall have the meanings respectively assigned to them in the said Acts.

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PURCHASE OF DELIVERED ENERGY AND TARIFF

- 2.1 All the Delivered Energy at the interconnection point for sale to DISCOM will be purchased at the tariff provided for in Article 2.2 from and after the date of Commercial Operation of the Project. Title to Delivered Energy purchased shall pass from the Wind Power Producer to the DISCOM at the Interconnection Point.
- 2.2 The Wind Power Producer shall be paid tariff for energy delivered at the interconnection point for sale to DISCOM, which shall be at the tariff rate as determined by APERC in accordance with section 61, Section 62, Section 86 of Electricity Act 2003 and any Regulation made there under without considering Accelerated Depreciation for a period of 25 Years from the Commercial Operation Date (COD).
- 2.3 Tariff Determined under these regulations shall be exclusive of taxes and duties as may be levied by the Government.
 - Provided that the taxes and duties levied by the Government shall be allowed as pass through on actually incurred basis.
- 2.4 Income tax/ MAT is a pass through and is to be paid by the Distribution Licensees to the developer upon receipt of the claim from the developer. This is over and above the tariff determination made here in.
 - Electricity Duty is a pass through and is to be paid by the Distribution Licensees to the developer upon receipt of the claim from the developer. This is over and above the tariff determination made herein.
- 2.5 Where in any Billing month, the energy supplied by the DISCOM to the Wind Power Producer as a bilateral arrangement to maintain the Auxiliaries in the power plant in situations of non-generation of power, shall be billed by the DISCOM, and the Wind Power Producer shall pay the DISCOM for such electricity supplies, at the DISCOM's then-effective tariff applicable to High Tension Category-I Consumers. For this purpose, the maximum demand specified in such DISCOM's Tariff shall be computed by dividing the amount of such energy supplied by the DISCOM by hours of drawl of power from the grid in the Month.

Explanation: The Wind plants during the plant shut down periods shall draw the energy from DISCOM only for the essential loads not exceeding auxiliary consumption.

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INTERCONNECTION FACILITIES

- 3.1 Upon receipt of a requisition from the Wind Power Producer, the APTRANSCO and DISCOM will prepare an estimate for arranging interconnection facilities for power evacuation at the voltage level as per Article 1.20. The Wind Power Producer have to bear the entire cost of the interconnection facilities as per the sanctioned estimate. The APTRANSCO and DISCOM shall evaluate, design, and install the Interconnection Facilities and perform all work, at the Wind Power Producer's expense, necessary to economically, reliably and safely connect the grid system to the Project switch yard.
- 3.2 APTRANSCO and DISCOM may also permit the Wind Power Producer to execute the interconnection facilities for power evacuation as per the sanctioned estimate at it's discretion duly collecting the supervision charges as per procedure in vogue.
- 3.3 The Wind Power Producer shall own, operate and maintain interconnection facilities from Project to Pooling Substation from time to time and necessary expenditure shall have to be borne by the Wind Power Producer. The maintenance work on the Generating units has to be done in coordination with the APTRANSCO and DISCOM.
- 3.4 The Wind Power Producer shall agree to pay to the DISCOM, on or before signing of this Agreement, at the rate of Rs.37,000/- per MW of Installed Capacity and for fractions thereof on a pro-rata basis as a one time lump sum payment for the sole purpose of providing the required MVAR capacity at the Substation of the APTRANSCO and / or DISCOM to supply the requisite reactive power to the Grid System.

APTRANSCO and /or DISCOM shall install the capacitors of required capacity, at the substation of the APTRANSCO and/or DISCOM before commercial operation date of the project.

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- 3.5 Any modifications or procedures or changes in arranging interconnection facilities for power evacuations rest with APTRANSCO and DISCOM.
- 3.6 During the period prior to the Commercial Operation Date, on the request of the Wind Power Producer, the DISCOM will supply energy to the Project for internal consumption, on the Terms and Conditions and at the tariff rates that are applicable from time to time to the category of consumers of the DISCOM to which the Wind Power Producer belongs, provided separate metering arrangements as may be required under the Terms and Conditions of such tariff have been installed at the Project.

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METERING AND PROTECTION

4.1 The Wind Power Producer shall install main meters of Static type 0.2 / 0.2S class accuracy at the Metering Point and the DISCOM shall install check meters of Static type at the same point and of the same accuracy. The main meters and check meters will each consist of a pair of export and import meters with facility for recording meter readings using Meter Recording Instrument. For the purpose of uniformity the Wind Power Producer shall follow metering specifications as developed by the DISCOM from time to time.

4.2 All of the meters required to be installed pursuant to Article 4.1 above shall be jointly inspected and sealed on behalf of both parties and shall not be interfered with, tested or checked except in the presence of representatives of both parties.

4.3 The meter readings from the main meters will form the basis of billing. If any of the meters required to be installed pursuant to Article 4.1 above are found to be registering inaccurately the affected meter will be immediately be replaced.

4.4 Where the half yearly meter check indicates an error in one of the main meter/meters beyond the limits for such meter but no such error is indicated in the corresponding check meter/meters, billing for the month will be done on the basis of the reading on the check meter/meters and the main meter will be replaced immediately.

4.5 If during the half yearly test checks, both the main meters and the corresponding check meters are found to be beyond permissible limits of error, both the meters shall be immediately replaced and the correction applied to the consumption registered by the main meter to arrive at the correct delivered energy for billing purposes for the period of the one month up to the time of such test check, computation of delivered energy for the period thereafter till the next monthly meter reading shall be as per the replaced main meter.

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4.6 Corrections in delivered energy billing, whenever necessary, shall be applicable to the period between the previous monthly meter reading and the date and time of the test calibration in the current month when the error is observed and this correction shall be for the full value of the absolute error. For the purpose of determining the correction to be applied to any meter registering inaccurately, the meter shall be tested under conditions simulating 100, 50, 20 and 10 percent load at unity power factor and 0.5 power factor. Of these eight values, the error at the load and power factor nearest the average monthly load served at the Interconnection Point during the applicable period shall be taken as the error to be applied for correction.

4.7 If both the main and check meters fail to record or if any of the PT fuses are blown out, then the energy will be computed on a mutually agreeable basis for that period of defect.

4.8 The main and check meters shall be tested and calibrated once in a Financial year utilizing a Standard Meter. The Standard Meter shall be calibrated once in every year at the approved Laboratory by Government of India / Government of Andhra Pradesh, as per Terms and Conditions of supply.

4.9 All main and check meters tests shall be jointly conducted by the authorized representatives of both parties and the results and correction so arrived at mutually will be applicable and binding on both the parties.

4.10 On the Meter Reading Date of each month, meter readings shall be taken (and an acknowledgement thereof signed) by the authorized representatives of both parties.

4.11 Within six (6) months following the execution of this Agreement, the Wind Power Producer and the DISCOM shall mutually agree to technical and performance specifications (including, but not limited to, the metering configuration for the Project) concerning the design and operation of the facilities required to be installed by the Wind Power Producer in order for the Wind Power Producer to operate in parallel with the grid. Thereafter, any change in such specifications shall be subject to mutual agreement of the

parties Shree Green Renewable or Pujza Shree Green Renewable Energy Won Private Limited

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- 4.12 The Project shall be operated and maintained in accordance with good and generally accepted utility standards with respect to synchronizing, voltage, frequency and reactive power control.
- 4.13 Voltage regulation shall be such as to enable continued paralleling and synchronisation with the network voltage at the point of interconnection.
- 4.14 The equipment of the Wind Power Producer shall be designed for fluctuations in the frequency within limits of -5% and +3% of the standard frequency of 50 cycles per second.
- 4.15 The Wind power developer shall ensure that the power factor of the power delivered to the DISCOM is maintained as per the APERC/CEA/CERC norms from the time to time.
- 4.16 Any change in rupturing capacity of switch-gear, settings of the relays, etc., shall be subject to approval of the DISCOM.
- 4.17 As the Project's generator may carry fault currents that may occur on the grid, the Wind Power Producer shall provide adequate generator and switchgear protection against such faults. The DISCOM is not responsible for damage, if any, caused to the Project's generator and allied equipment during parallel operation of the generator with the grid.
- 4.18 The Wind Power Producer shall make a good faith effort to operate the Project in such a manner as to avoid fluctuations and disturbances to the APTRANSCO's / DISCOM's network due to parallel operation with the network.
- 4.19 The Wind Power Producer shall control and operate the Project as per Prudent Utility Practices. The DISCOM shall only be entitled to request the Wind Power Producer to reduce electric power and energy deliveries from the Project during a System Emergency, and then only to the extent that in the DISCOM's reasonable judgment such a reduction will alleviate the emergency. The DISCOM shall give the Wind Power Producer as much advance notice of such a reduction as is practicable under the circumstances and shall use all reasonable efforts to remedy the circumstance causing the reduction as soon as possible. Any reduction required of the Wind Power Producer hereunder shall be implemented in a manner consistent with safe operating procedures.

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CHIEF GENERAL MANAGER

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BILLING AND PAYMENT

5.1 For Delivered Energy purchased, Wind Power Producer shall furnish a bill to the DISCOM calculated at the rate provided for in Article 2.2, in such form as may be mutually agreed between the DISCOM and the Wind Power Producer, for the billing month on or before the 5th working day following the Meter Reading Date.

5.2 For payment of bills of the generating company through letter of credit, a rebate of 2 % shall be allowed.

Where payments are made other than through letter of credit within a period of one month of presentation of bills by the generating company, a rebate of 1% shall be allowed.

Any payment made beyond the due date of payment, DISCOM shall pay interest at existing SBI base rates plus one percent and in case this rate is reduced, such reduced rate is applicable from the date of reduction.

5.3 The DISCOM shall pay the bill on monthly basis as per Article 5.1.

5.4 **Letter of Credit:** Not later than 30 days prior to the Scheduled COD of the Generating Unit, DISCOM shall cause to be in effect an irrevocable revolving Letter of Credit issued in favour of Wind Power Developer for a minimum period of one year by a Scheduled Bank (the "Letter of Credit").

a. However Letter of Credit shall not be invoked for any disputed bill amount.

5.5 **Direct payment:** Wind developer shall submit bills for the energy delivered during the billing period as per the provision of this PPA and there upon DISCOMs shall make payment for the eligible bill amount by the due date of payment.

5.6 **Billing disputes:** The DISCOM shall pay the bills of Wind Power Producer promptly subject to the clauses 5.1 and 5.2 above.

The DISCOM shall notify Wind Power Producer in respect of any disallowed amount on account of any dispute as to all or any portion of the bill. Wind Power Producer shall immediately take up issue with all relevant information

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with DISCOM which shall be rectified by the DISCOM, if found satisfactory. Otherwise notify its (DISCOM's) rejection of the disputed claim within reasonable time with reasons therefore. The dispute may also be decided by mutual agreement. If the resolution of any dispute requires the DISCOM to reimburse Wind Power Producer, the amount to be reimbursed shall bear interest at SBI base rates plus one percent and in case this rate is reduced, such reduced rate is applicable from the date of reduction from the date of disallowance to the date of reimbursement.

5.7 All payments by the DISCOM to Wind Power Producer hereunder shall be made to such address as may be designated by Wind Power Producer to the DISCOM in writing from time to time.

Address

: M/s. Pujaa Shree Green Renewable Energy Won Private

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SF No. 594/2, Manikarar Thottam Varapatti,

Sultanpet (Post) - Coimbatore - 641 669

Cell No.

: 98400-91019 / 99406-63687

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UNDERTAKING

- 6.1 The Wind Power Producer shall be responsible:
- (i) For proper maintenance of the project in accordance with established prudent utility practices.
- (ii) For operation, maintenance, overhaul of the plant, equipment, works, switch yard and transmission lines and equipment up to the Interconnection Point of the project in close coordination with the DISCOM.
- (iii) The Wind Power Producer shall furnish the generation and maintenance schedules every year.
- (iv) For making all payments on account of any taxes, cess, duties or levies imposed by any Government or competent statutory authority on the land, equipment, material or works of the project or on the energy generated or consumed by the project or the Wind Power Producer or on the income or assets of the Wind Power Producer.
- (v) For obtaining necessary approvals, permits or licences for operation of the project and sale of energy to DISCOM there from under the provision of the relevant laws.
- (vi) The Wind Power Producer have to comply with the provisions of the AP Code of Technical Interface (Grid Code).
- (vii) For achieving Commercial Operation Date within two years from the date of signing of the Agreement.
- (viii) For seeking approval of APTRANSCO and DISCOM in respect of Interconnection Facilities, Pooling Substation and synchronization of the Project with grid.
- (ix) The Wind Power Producer shall not dismantle and take away project machinery and interconnection facilities during the PPA term.
- (x) After 25th year of the operation from Commercial Operation Date, if plant continues to operate, the DISCOM shall have the first right of refusal on power purchase from the Wind power plant. The tariff beyond 25th year shall be as mutually agreed by both the parties, subject to approval of APERC.

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- (xi) Sharing of Clean Development Mechanism (CDM) benefits: The Proceeds of carbon credit from approved CDM Project shall be shared between generating company and concerned beneficiaries in the following manner namely.
 - (a) 100% of the gross proceeds on account of CDM benefits is to be retained by the project developer in the first year after the date of commercial operation of the generating station.
 - (b) In the second year, the share of the beneficiaries shall be 10 % which shall be progressively increased by 10% every year till it reaches 50%, where after the proceeds shall be shared in equal proportion, by the generating company and the beneficiaries.

6.2 The DISCOM agrees:

- (i) To make all reasonable efforts for making arrangements for evacuation of power from the project to be completed prior to the Commercial Operation Date of the Project subject to Article 3.
- (ii) For purchase of Delivered Energy from the project as per section 2.2.
- (iii) To co-ordinate with APTRANSCO and assist the Wind Power Producer in obtaining approval for the interconnection facilities where the interconnection is at 132 kV or above voltages, for synchronization, Commercial Operation, regular operation etc., as required by the Wind Power Producer.

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DURATION OF AGREEMENT

This Agreement shall be effective upon its execution and delivery thereof between parties hereto and shall continue in force from the Commercial Operation Date (COD) and until the twenty fifth (25th) anniversary that is for a period of twenty five years from the Commercial Operation Date (COD). This Agreement may be renewed for such further period of time and on such terms and conditions as may be mutually agreed upon by the parties, 90 days prior to the expiry of the said period of twenty five years, subject to the consent of the APERC. Any and all incentives/conditions envisaged in the Articles of this Agreement are subject to modification from time to time as per the directions of APERC.

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NOTICES

8.1 Except as otherwise expressly provided in this Agreement, all notices or other communications which are required or permitted hereunder shall be in writing and sufficient if delivered personally or sent by registered or certified mail, email or fax addressed as follows:

If to the Wind Power Producer:

Attention

: M/s. Pujaa Shree Green Renewable Energy Won Private

Limited

SF No. 594/2, Manikarar Thottam Varapatti,

Sultanpet (Post) - Coimbatore - 641 669

Cell No.

: 98400-91019 / 99406-63687

If to the DISCOM:

Attention

: Chief General Manager, (IPC & P&MM)

APSPDCL,

19-13-65-A, Corporate Office,

Ragavendra Nagar, Kesavayana Gunta,

Tiruchanoor Rd, Tirupati - AP, India - 517501

Fax No.

: 0877-2237407

Telephone No.

: 0877-2237407

Email id

: gmipcspdcl@gmail.com

8.2 All notices or communications given by email, fax shall be confirmed by depositing a copy of the same in the post office in an envelope properly addressed to the appropriate party for delivery by registered or certified mail. All notices shall be deemed delivered upon receipt, including notices given by email, fax regardless of the date the confirmation of such notice is received.

8.3 Any party may by written notice change the address and/or addresses to

which such notices and communications to it are to be delivered or mailed.

nor Pujas Shree Green Renewable Energy Won Private Limited

Authorized Signatory

CHIEF GENERAL MANAGER
P & MM & IPC

DEFAULT

9.1 The Wind Power Producer shall achieve Commercial Operation Date within

two years from the date of signing of the Agreement, default of which, the

Agreement is liable for termination and the same can be done at the option of

DISCOM with due notice.

9.2 In the event, DISCOM commits a breach of any of the terms of this

Agreement, the Wind Power Producer shall be entitled to specific performance

of this Agreement or claim such damages as would be available under Law or

both, at its option, by giving 30 days notice to DISCOM.

9.3 In the event, Wind Power Producer commits a breach of any of the terms of

this Agreement, the DISCOM shall be entitled to specific performance of this

Agreement or claim such damages as would be available under Law or both, at

its option, by giving 30 days notice to Wind Power Producer.

9.4 If the default continues for a period of 30 days or more, either party will

have a right to issue a preliminary notice for termination of this Agreement. If

the default is not cured within 30 days thereafter, either party can terminate

this Agreement and can claim damages at its option.

9.5 In the event of cancellation of the Project allotted to the Wind Power

Producer by NREDCAP for any reason, the PPA with DISCOM will

automatically get cancelled;

nor Pujaa Shree Green Renewable Energy Won Privata Limited

Authorised Signatory

CHIEF GENERAL MANAGER P & MM & IPC

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DISPUTE RESOLUTION

10.1 Each Party shall designate in writing to the other party a representative

who shall be authorized to resolve any dispute arising under this Agreement in

an equitable manner.

10.2. Following notice by one Party to the other setting out the particulars of

the dispute, if the designated representatives are unable to resolve a dispute

under this Agreement within 15 days, such dispute shall be referred by such

representatives to a senior officer designated by the Wind Power Producer and

a senior officer designated by the DISCOM, respectively, who shall attempt to

resolve the dispute within a further period of 15 days.

10.3. The Parties hereto agree to use their best efforts to attempt to resolve all

disputes arising hereunder promptly, equitably and in good faith and further

agree to provide each other with reasonable access during normal business

hours to any and all non-privileged records, information and data pertaining

to any such dispute.

10.4 Failing resolution of the dispute in terms of the above provisions or even

otherwise, any party may approach the AP Electricity Regulatory Commission

to adjudicate upon the dispute in terms of Section 86 (1) (f) of Electricity Act,

2003.

For Pujae Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGER

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ARTICLE 11 SPECIAL PROVISIONS

11.1 The waiver of any breach or failure to enforce any of the terms, covenants or conditions of this Agreement shall not in any way affect, limit, modify or

waive the future enforcement of such terms, covenants or conditions.

11.2 No oral or written modification of this Agreement either before or after its execution shall be of any force or effect unless such modification is in writing and signed by the duly authorized representatives of the Wind Power Producer and the DISCOM, subject to the condition that any further modification of the Agreement shall be done only with the prior approval of Andhra Pradesh Electricity Regulatory Commission. However, the amendments to the Agreement as per the respective orders of APERC from time to time shall be

carried out.

11.3 However, in respect of power evacuation, the voltage levels for interfacing with grid will be as per Article 1.20. The cost of interconnection facilities has

to be borne by the Wind Power Producer as per Article 3.

11.4 The invalidity or unenforceability for any reason of any provision of this Agreement shall not prejudice or affect the validity or enforceability of any

other provision of this Agreement.

11.5 The failure of any party to insist in one or more instances upon the strict

performance of any of the provisions of this Agreement or to take advantage of

any of its rights hereunder shall not be construed as a waiver of any such

provisions or relinquishment of any such rights but the same shall continue in

full force and effect.

11.6 Unless the context otherwise requires, every arrangement, procedure or

any other matter which is, under any of the provisions of this Agreement,

cor Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

required to be mutually agreed upon between the parties, shall be concluded by a written Agreement between the parties not later than the date specified in the concerned clause of this Agreement, subject to the consent of the APERC. 11.7 This Agreement, including Schedule I, II, III, IV & V attached hereto, constitute the entire agreement between the parties with respect to the subject matter hereof, and there are no oral or written understandings, representations or commitments of any kind, express or implied, not set forth herein.

11.8 The headings contained herein are included solely for the convenience of the parties and are not to be used as a basis for interpreting the various sections of this Agreement.

11.9 The parties each agree to act in good faith in implementing the terms and conditions of this Agreement and in carrying out their respective obligations hereunder.

11.10 In the event of the merger or re-organisation of DISCOM, if the resulting entity is able to perform DISCOM's obligations hereunder in no less a manner than DISCOM, the resulting entity shall take the right and responsibility for performance of DISCOM's obligations.

11.11 In the event of the merger or re-organisation of Wind Power Producer if the resulting entity is able to perform Wind Power Producer's obligations hereunder in no less a manner than Wind Power Producer, the resulting entity shall take the right and responsibility for performance of Wind Power Producer's obligations.

11.12 **Assignment and Financing:** Neither party shall assign this Agreement or any portion thereof to any third party without the prior written consent of the other party which consent shall not be unreasonably withheld.

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

P & MM & IPC
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IN WITNESS WHEREOF, the Wind Power Producer and the DISCOM have caused this Agreement to be executed as of the date and the year first set forth above.

For and behalf of SOUTHERN POWER DISTRIBUTION COMPANY

OF A.P.LIMITED

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Bv:

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CHIEF GENERAL MANAGER

APSPDCL :: TIRUPATI

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Its:

For and behalf of

M/S. Pujaa Shree Green Renewable Energy Won Private Limited

WITNESS

1. JU DON KUMAR) BY: LIVENKATA KUMAR) BY: AXII ENERGY VENTORES

ror Pujaa Shree Groon Renewable Energy Won Private Limited

2.

Its:

Authorised Signatory

SCHEDULE I Particulars of the Project (Referred to in the Preamble to the Agreement)

Name of the Project	Location	No. of Wind Energy Converters	Capacit y of the Project	Power export to the Grid In MW
M/s. Pujaa Shree Green Renewable Energy Won Private Limited	Belguppa in Anantapur District WTG Survey No BLG040 110.109,108, 113 & 111	WTG 1 No. (2.1 MW)	2.1 MW	2.0895

^{*} Out of 2.1 MW, 0.0105 MW is for Auxiliary Consumption and 2.0895 MW is for export to grid for sale to DISCOM.

SCHEDULE – II (Copy of sanction proceedings from NREDCAP to the Company)

SCHEDULE - III

(Copy of agreement entered into by the Company with NREDCAP)

SCHEDULE -- IV

Annexure – I to the Commission's order dated 30-03-2010 in O.P.No. 40 of 2010 and Commission's order dated 11-07-2012 in O.P.No.7 of 2012 and letter dated 04-06-2014 & Regulation No. 1 of 2015.

SCHEDULE - V

Copy of Project Implementation Agreement dated 3.10.2016 entered between APTransco, APSPDCL, APEPDCL and M/S. Suzlon Energy Limited & M/s.Axis Energy Ventures India Private Limited.

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

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New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

(A State Government Company - ISO 9001:2015 Certified)

Regd.Office: #12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli, Guntur District. Andhra Pradesh - 522 501, India.

Tel: 08645 797162 / 797163 E-mail: info@nredcap.in Website: www.nredcap.in



NREDCAP/WE/Axis/503/2017

To

Dt.18.12.2017

M/s Pujaa Shree Green Renewable Energy Won Private Limited, SF. No.594/2, Manikara Thottam, Varapati, Sultanpet (Post), Coimbatore-641669.

Sirs.

Sub: Transfer of 2.10 MW capacity wind farm in favour of M/s Pujaa Shree Green Renewable Energy Won Private Ltd from the wind farm allotment given to M/s Axis Energy Ventures India Pvt Ltd - orders issued - Reg

Ref: 1. T.O. Lr. No. NREDCAP/WE/ Axis/503/2016/1055, Dt.30.05.2016

- 2. Agreement entered on 06.06.2016
- 3. Lr. No. AXIS/BELUGUPPA/NREDCAP/CT/2017-18/010, dt. 14.12.2017 of M/s Axis Energy Ventures India Pvt. Ltd
- 4. Lr. No. SUZLON/NREDCAP/2017-18, dt. 14.12.2017 of M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd
- 5. Board Resolutions of both companies of M/s Axis Energy Ventures India Pvt. Ltd & M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd
- 6. G.O. Rt No.61, Dt.24.3.2011 of Energy (RES) Dept, GOAP, Hyderabad

Se Se Se

In the reference 1st & 2nd cited, 2290.30 MW capacity wind farm project was allotted to M/s Axis Energy Ventures India Pvt. Ltd to set up in different locations of Ananthapuramu district.

In the reference 3rd cited, M/s Axis Energy Ventures India Pvt. Ltd, has informed that they have proposed to develop 2.10 MW Capacity wind farm project at Beluguppa, Ananthapuramu district through M/s Pujaa Shree Green Renewable Energy Won Pvt Ltd.

Taking into consideration of Board resolutions of M/s Axis Energy Ventures India Pvt. Ltd & M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd, and request of M/s Axis Energy Ventures India Pvt. Ltd, permission is hereby accorded to transfer 2.10 MW wind power capacity in favour of M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd, SF. No.594/2, Manikara Thottam, Varapati, Sultanpet (Post), Coimbatore-641669 from M/s Axis Energy Ventures India Pvt. Ltd to set up at Beluguppa, Ananthapuramu district. M/s Axis Energy Ventures India Pvt. Ltd has agreed to pay charges @ Rs.5000/-per MW for 2.10 MW towards transfer of project at the time of commissioning of wind power project as per the provisions of Project Implementation Agreement (PIA) signed with GOAP and Agreement signed with NREDCAP.

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CHIEF GENUTUL MANAGER

M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd, is requested to enter into agreement with NREDCAP as per the prescribed format (enclosed) within one month from the date of this order. The other terms and conditions of the sanction order issued to M/s Axis Energy Ventures India Pvt. Ltd will hold good to this transfer of project of 2,10 MW capacity to M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd.

Thanking you.

Yours faithfully,

VC & Managing Director

Encl:a.a.

Copy to M/s Axis Energy Ventures India Pvt. Ltd, PMR Plaza, Plot No. 3, H. No. 6-3-680/8/3, 2nd floor, Thakur Mansion Lane, Somajiguda, HYDERABAD- 500 082

Copy to M/s Suzlon Gujarat Wind Park Ltd, Hyderabad

Copy to Chairman and Managing Director, APSPDCL, Tirupathi.

Copy to the Executive Director (P, RAC & Reforms), AP TRANSCO, Vidyut Soudha, Gunadala, Vijayawada

Copy to the Chief Engineer, IPC, APPCC, APTRANSCO, Vidyut Soudha, Vijayawada.

Copy to the District Collector, Ananthapuramu District.

Copy to the District Manager, Ananthapuramu District

For Pulpa Shree Green Renewable **Energy Won Priyate Limited**

P & WM & IPC



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S.No. 778 5 Date 18-12 2017 Rs. 100

sold to sri. S. P. N. V. Jaisimbar sto P. Nansing Rao. Hyd

For Whom: Pwag Shree green Renewable Energy won PVT LTD. VALIDUPTO: 31 12-2018
Payakaputan VLATAWADA 16

BZ 327414 CH. MAHALAKSHM LICENCED STEMP VENDOR O.L. NO. 06-27-015/2016 VALID UP TO: 31-12-2018 WALID UP TO: 31-12-2018 # 77-51/1-18, Prakash Nagar, Payakapuram, VIJATAWADA-16 Cell: 9951025826

AGREEMENT

THIS AGREEMENT is entered into on this 18 day of December, 2017 at Tadepalli, by and among

(1) New and Renewable Energy Development Corporation of Andhra Pradesh Itd., (Formerly NREDCAP) a fully owned State Government Company, registered under the Companies Act, 1956, having its Registered office at H No. 12-464/5/1, River Oaks Apartment CSR Kalyanamandapam, Tadepalli-522501, Guntur district represented by its Vice Chairman & Managing Director, hereinafter referred to as the NREDCAP of the FIRST PART.

AND

(2) M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd, a company incorporated under the Companies Act, 1956, having its registered office at: SF. No.594/2, Manikara Thottam, Varapati, Sultanpet (Post), Coimbatore-641669, represented by its Authorized Signatory, Sri SPN Venkat Jaisimha, hereinafter referred to as the 'Customer' of the SECOND PART.

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For Axis Energy Ventures India PVL Ltd..

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For Pujas Shree Green Renewable Energy Won Private, Limited

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CHIEF GENERAL MANAGER

(3) M/s Axis Energy Ventures India Pvt. Ltd, a company incorporated under the Companies Act, 1956, having its registered office at: PMR Plaza, Plot No. 3, H. No. 6-3-680/8/3, 2nd floor, Thakur Mansion Lane, Somajiguda, HYDERABAD- 500 082, represented by its Authorized Signatory, Sri J Venkat Kumar, hereinafter referred to as the 'Developer' of the THIRD PART.

The NREDCAP, Customer and the Developer are severally referred to as the Party and collectively as Parties.

The expressions 'NREDCAP', 'Developer' / 'Customer' and 'Developer' shall unless repugnant to the context or meaning thereof, include respectively their successors, administrators and permitted assigns,

WHEREAS,

A. NREDCAP is the Nodal Agency for approval of wind energy projects upto 40 MW capacity and, therefore, for setting up of wind farms in the Potential Areas in the State of Andhra Pradesh as per the guidelines of the Ministry of New and Renewable Energy (MNRE), Government of India and also the guidelines under the Andhra Pradesh Wind Power Policy-2015 of the Government of Andhra Pradesh (GOAP) notified vide GO MS No.9, Energy Infrastructure & Investment (PR-II) Department, dated 13-02-2015 (hereinafter called the 'Policy') as well. For the projects with more than 40 MW Capacity, the GOAP grants clearance on the recommendations of NREDCAP. The Policy, inter-alia, aims at encouraging optimum utilization of the available wind power potential in the State by facilitating adoption of state of art technology through private participation, balancing the interest of the customers and the developers, permitting the developers for using the power produced for captive consumption or making sale to a third party or to DISCOMs as per the guidelines under the Policy, and the Indian Electricity Act 2003 and the rules and regulations made and the directions issued by GOAP thereunder. Under the Policy the Developer is also eligible for certain incentives and concessions. As per the existing Policy guidelines of NREDCAP, where the Developer is a manufacturer or supplier, such Developer can transfer the capacities allotted to it to any customer provided prior approval of NREDCAP stipulating such of the terms and conditions as it considers necessary and appropriate is obtained.

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For Axia Epergy Venturas, India Pvi. Ltd.,

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r Pujaa Shree Groon Ronowat. Energy Won Priyate Limited

Authorized Signatory

For New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

Vice Chairman & Managing Director

and and an ex-

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGER
P & MM & IPC

B. The Third Party was earlier sanctioned 2290.30 MW wind farm projects to be set up at different locations of Ananthapuramu District and accordingly an Agreement was entered between NREDCAP and the Developers as given in following table, hereinafter referred as the 'Principal Agreement' containing the terms and conditions thereof. Para 2 of the Principal Agreement enables development of the wind power projects by the Developer for customers/users.

SI. No	Company Name	Proceedings No. & Agreement Date	Capacity Sanctioned (In MW)
1	M/s Axis Energy Ventures India Pvt. Ltd	T.O. NREDCAP/WE/Axis/503/2016 dated 30.05.2016 Agreement dated 06.06.2016	2290.30
		Total	2290,30

C. The third Party through their Letter No. Lr. No. AXIS/BELUGUPPA/NREDCAP/CT/2017-18/010 dt.14.12.2017 informed that they had received an order from the Second Party for establishment of 2.10 MW Wind Power Project on turnkey basis as per the details given below, hereinafter referred to as the 'Project', duly conveying it's no objection and consent for transfer of the Project in the name of the Second Party being its customer out of the balance of 2290.30 MW capacity allotment they were already sanctioned.

SI No	Tranic	Capacity in MW	Capacity transferred from	Capacity transferred
1	M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd	2.10	M/s Axis Energy Ventures India Pvt. Ltd	(In MW) 2.10
	Total	2.10		2.10

D. After due consideration of the proposals under (B) above, the First Party, through its Letter/ Proc No. NREDCAP/WE/Axis/503/2017, dated /8 .12.2017 and granted permission for the transfer of the Project stipulating the terms and conditions therefor and for entering into this Agreement. The Second Party having complied with the conditions of the said permission letter of NREDCAP requested for execution of this Agreement.

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For Axis Energy Ventures India Pvt. Ltd., Pujaa Shree Grann Reneval. Energy Won Prigate Limitud

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For Raw & Renewable Energy Development Corporation of Andina Fradesh Ltd.

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NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS: ARTICLE 1 DEFINITIONS AND INTERPRETATION

1.1 Definitions

In this Agreement, the words and expressions, unless and otherwise defined or described herein, shall, unless repugnant to the context or meaning thereof, have the meaning assigned in the Andhra Pradesh Electricity Reforms Act 1998 (APERC Act), the Indian Electricity Act 2003 and GO MS No.9, Energy Infrastructure & Investment (PR-II) Department, dated 13.02.2015, GOAP or in the Principal Agreement appended hereto.

1.2 Public Interest

The sanction, development, operation and maintenance of the Project is in public interest.

Essence of Time

As the Project Implementation is as per a pre-decided time schedule, the Customer shall ensure that the Project is executed within the Project Implementation Period.

ARTICLE 2 GRANT OF ALLOTMENT

2.1 Transfer of Sanctioned Capacity

Subject to and in accordance with the terms and conditions set forth in this Agreement and the Principal Agreement and the Customer undertaking to observe and perform the covenants, obligations, responsibilities, terms and conditions of this Agreement and the Principal Agreement as well, NREDCAP hereby sanctions transfer of 2.10 MW capacity wind power from wind power project earlier sanctioned to the Developer M/s Axis Energy Ventures India Pvt. Ltd, to and in the name of the developer / Customer for setting up of the Project as per the following table for generation of 2.10 MW capacity of wind power for captive use/sale of power to AP DISCOM/Sale of power to third party.

Sl.No.	Customer Name	Capacity (MW)	Location details
1	M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd	2.10	Beluguppa, Ananthapuramu District

For Auds Energy Ventures India Pet. Etd.,

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ed Signatory

For Navy & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

Vice Chaleman & Managing Director

For Pujas Shree Green Renewable Energy Won Private, Limited

CHIEF DENERAL MANAGER P& MM & IPC

2.2 Financing

The Customer shall set up and operate the Project with its own finance. There shall be no financial contribution from NREDCAP.

2.3Applicability of other Laws

The sanction of the Project and its development and operation by the Customer shall be subject to the Indian Electricity Act 2003 the Rules and Regulations made thereunder from time to time; the Regulations and directions of the Andhra Pradesh Electricity Regulatory Commission (APERC); the Policy of the GOAP and NREDCAP as formulated and amended from time to time and all other Applicable Laws.

2.4 Regulation of Allotment

The Policy empowers NREDCAP to regulate the allotment of wind generation power projects.

ARTICLE 3 PERFORMANCE GUARANTEE

The Performance Guarantee submitted by the Developer and renewed from time to time shall be proportionately applicable to this Project and it shall be the responsibility of the Customer to ensure that the Performance Guarantee well before its expiry renewed from time to time and no notice therefor shall be issued by NREDCAP duly complying with the stipulations and conditions specified in Article 5 of the Principal Agreement.

ARTICLE 4

EFFECT OF PRINCIPAL AGREEMENT

Save except as otherwise and to the extent provided in this Agreement all other terms and conditions of the Principal Agreement including rights, entitlement, obligations and liabilities shall remain the same and binding on the Parties. It is clarified that any extension of time granted by NREDCAP for any particular event in terms of the Principal Agreement shall also be applicable to this Agreement.

For Axis Energy Ventures India Pol. Ltd.,

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For New & Renewable Energy Development Corneration of Andhra Pradight Ltd.

Ohn Chairman & Managing Director

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGER
P & NIM & IPC

ARTICLE 5 MISCELLANEOUS

5.1 Dispute Resolution

(a) Amicable Resolution

Save where expressly stated otherwise in this Agreement, any dispute, difference or controversy of whatever nature howsoever arising under, out of or in relation to this Agreement including completion or otherwise of the Project between the Parties and so notified in writing by either Party to the other (the "Dispute") in the first instance shall be attempted to be resolved amicably by the Parties

(b) Appeal

In the event of the Parties not finding an acceptable solution to the dispute(s) within 30(thirty) days, the Customer may appeal to the Chairman of the Board of Directors of NREDCAP whose decision shall be final and binding.

5.2 Governing Law and Jurisdiction

This Agreement shall be construed and interpreted in accordance with and governed by the laws of India and the Courts at Hyderabad, Andhra Pradesh State, India shall have jurisdiction over all matters arising out of or relating to this Agreement.

5.3 Waiver

(a) Waiver by either Party of any default or any rights under the Agreement by the other Party in the observance and performance of any provision of or obligations or under this Agreement

 shall not operate or be construed as a waiver of any other or subsequent Default hereof or of other provisions or obligations under this Agreement

ii. Shall not be effective unless it is in writing and executed by a duly Authorized representative of such Party; and

iii. Shall not affect the validity or enforceability of this Agreement in any Manner.

iv. Neither the failure by either Party to insist on any occasion upon the Performance of the terms, conditions and provisions of this Agreement

For Axia Rivergy Ventures India Pvt. Ltd.,

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For New & Renewable Energy Development Corporation of Andlera Pradesh Ltd.

Usin Chaleman & Managing Director

ror Pujaa Shree Green Renewable Energy Won Privaje Limited

Authorised Signatory

CHIEF GENERAL MANAGER

or any obligation thereunder nor time or other indulgence granted by a Party to the other Party shall be treated or deemed as waiver of such breach or acceptance of any variation or the relinquishment of any such right hereunder.

5.4 Amendments

This Agreement and the Schedules together constitute a complete and exclusive statement of the terms of the Agreement among the Parties on the subject hereof and no amendment or modification hereto shall be valid and effective unless agreed to by the Parties hereto and evidenced in writing.

5.5 Exclusion of Implied Warranties etc.

This Agreement expressly excludes any warranty, condition or other undertaking implied at law or by custom or otherwise arising out of any other agreement between the Parties or any representation by any Party not contained in a binding legal agreement executed by the Parties.

5.6 Indemnity

The Customer and the Developer hereby undertake and agrees to defend, indemnify and hold harmless the NREDCAP, its officers, employees and consultants from and against any and all claims, liabilities, actions, demands, judgments, losses, costs, expenses, suits, actions and damages arising by reason of bodily injury, death or damages to property sustained by third parties that are caused by an act of negligence or the wilful misconduct of the Customer and/or Developer or by their officer/s, director/s, sub-contractor/s, agent/s or employees.

5.7 Notices

Unless otherwise stated, notices to be given under this Agreement including but not limited to a notice of waiver of any term, breach of any term of this Agreement and termination of this Agreement, shall be in writing and shall be given by registered post, hand delivery, recognized national courier, mail, telex or facsimile transmission and delivered or transmitted to the Parties at their respective addresses set forth below:

If to the NREDCAP

RO:Vice Chairman and Managing Director, # 12-464/5/1, River Oaks Apartments, CSR Kalyana Mandapam Road, Tadepalli, Guntur district, Andhra Pradesh-522501. Email: info@nredcap.in

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Authorized Signatory

Vice Chairman & Managing Director

Corporation of Andhra Pradesh Ltd.

r or Pujaa Shree Green Renewable Energy Won Privale Limited

Authorised Signatory

CHIEF GENERAL MANAGER

If to the Customer

M/s Pujaa Shree Green Renewable Energy Won Pvt. Ltd, SF. No.594/2, Manikara Thottam, Varapati, Sultanpet (Post), Coimbatore-641669. Ph:9849991019

If to the Developer

M/s Axis Energy Ventures India Pvt. Ltd, PMR Plaza, Plot No. 3, H. No. 6-3-680/8/3, 2nd floor, Thakur Mansion Lane, Somajiguda, HYDERABAD- 500 082, Ph: 040-23412312

Or such address, or facsimile number as may be duly notified by the respective Parties from time to time, and shall be deemed to have been made or delivered (i) in the case of any communication made by letter, when delivered by hand, by recognized national courier or by mail (registered, return receipt requested) at that address and (ii) in the case of any communication made by facsimile, when transmitted properly addressed to such facsimile number and copy sent by mail. In case of any change in the address, it shall be the responsibility of each party to get such change recorded in relevant records of the other Party/ies and get confirmation to that effect.

5.8 Partial Invalidity / Severability

If for whatever reason, any provision of this Agreement is or become invalid, illegal or unenforceable or is declared by any court of competent jurisdiction or any other instrumentally to be invalid, illegal or unenforceable, the validity, legality or enforceability of the remaining provisions shall not be affected in any manner, and the Parties will negotiate in good faith with a view to agreeing upon one or more provisions which may be substituted for such invalid, unenforceable or illegal provisions, as nearly as is practicable. Provided failure to agree upon any such provisions shall not be subject to dispute resolution under this Agreement or otherwise.

5.9 Precedence of Documents

The following documents / agreements between the Parties shall be construed as mutually explanatory to one another provided that in the event of any conflict or repugnancy between them the order of precedence of the documents shall be:

- a) This Agreement, including Schedules and Annexure.
- b) The Principal Agreement.
- c) Letter of Sanction.
- d) Proposals submitted by the Customer and Developer

For Axis Energy Ventures India Pvt. Ltd.,

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Authorized Signatory

nor Pujaa Shree Green Renewable Energy Won Private, Limited

Authorised Signatory

For Flow & Removable Energy Devalopment Corporation of Arelina Pandesig Ltd.

Ace Chairman & Managing Director

5.10 Counterparts

This Agreement shall be executed in three counterparts on non-judicial papers of Rs.100/- each and registered if required under law at the cost and expense of the Developer which when executed and delivered shall constitute an original of this Agreement.

IN WITNESS WHEREOF THE, PARTIES HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

Signed, Sealed and Delivered For and on behalf of Customer by:

Signature of Authorized Person

(Name)

(Designation)

(Seal)

Signed, Sealed and Delivered
For and on behalf of Developer by

For and on behalf of the NREDCAP
Corporation of Andhra Pradesh Ltd.

Vice Chairman & Managing Director

Signature of Authorized Person

(Name)

(Designation)

(Seal)

Signature of Authorized Person (Seal)

Witnesses

In the presence of

Signature

Name

Address

D. V. Ramech, Todopallo

2) Signature

Name

Address

Plan

Walin Inergy 18td.

For Pujaa Shree Green Renewable Energy Won Private Limited

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CHIEF GENERAL MANAGER

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(A State Government Company)

(Formerly Non-Conventional Energy Development Corporation of Andhra Pradesh Ltd.) Regd. Office: #5-8-207/2, Pisgah Complex, Nampally, Hyderabad - 500 001. India.

Tel: Off: 040-23202391, 23202262. 23203376 Fax: 040-2320 1666 E-mail: info@nedcap.gov.in, nedcap@ap.nic.in Website: www.nedcap.gov.in



Ref: NREDCAP/WE/ Axis/503/2016

Dt.30.05.2016

PROCEEDINGS

Sub:-Wind Power Project in private sector - Sanction of 2290.30 MW Wind farm Allotment in Ananthapuram district - Reg

Ref:-1. Your proposals dated. 20.04.2016

- 2. Govt Lr.No. 479/POWER.II.2/2016, dt. 11.05.2016 from the Prl. Secretary to Govt., Energy I & I Dept. GOAP, Hyderabad
- 3. G.O. Ms.No.9, Dt. 13.02.2015 of Energy I &I (PR.II) Dept, GOAP
- 4. This office Lr.No. NREDCAP/WE/Axis/503/2016, Dt.24.05.2016
- 5. Lr.No. AEVIPL/157/2016-17, dt. 25.05.2016 of M/s Axis Energy Ventures India (P) Ltd

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In the reference 1st cited, of M/s Axis Energy Ventures India Pvt. Ltd, have applied to NREDCAP for allotment of 2290.30 MW capacity wind power project at different locations of Ananthapuram district, for generation of electric power on commercial basis.

In the reference 2nd cited, the Govt. has accorded approval for sanction of 2290.30 MW capacity wind power project to M/s Axis Energy Ventures India Pvt. Ltd.

In the reference 4th cited, Provisional Allotment Letter was issued stipulating the terms and conditions for issue of Sanction Letter and for execution of the Agreement. M/s Axis Energy Ventures India Pvt. Ltd vide its letter 5th cited, has informed that they will pay application fee, sanction fee etc., after commissioning of each project as per the provisions of Project Implementation Agreement (PIA) and Project Agreement.

Based on the approval of the Government, and having considered the request of M/s Axis Energy Ventures India Pvt. Ltd, the allotment of 2290.30 MW capacity wind power project capacity at the following locations, Ananthapuram District for generation of power on Commercial basis is accorded subject to the following conditions:

For Pulsa Shree Green Renewable

"Energy is Life - Conserve it"

CHIEF GENERAL MANAGER P & MM & IPC APSPDCL :: TIRUPATI

Energy Won Privaty Limited

SI. No.	Location/Site	District	Capacity (In MW)
01	Amidyala West	Ananthapuramu	210.00
02	MPR Dam/Kuderu	-do-	106.00
03	Beluguppa	-do-	
04	Govindavada	-do-	100.80
05	Kanekallu	-do-	310.80
06	Vidapanakallu		399.00
07	Erragunta	-do-	399.00
08	Borampalle East/	-do-	199.50
00	Nuthimadugu	-do-	367.80
09	Kadiridevarapalli	-do-	197.40
	Total		2290.30

- The allotment of the land and lease of the land shall be subject to Govt. orders. issued in this regard.
- The wind power project shall be established in the specified area as indicated in the proposal.
- The wind power project allotted now is as per the Wind power policy announced by the Govt. of A.P. vide G.O Ms No.9, Energy Infrastructure & Investment (PR-II) Department, dated 13-02-2015.
- In case of private lands, the company shall make its own arrangements for procurement of land, subject to approval of the area of operation by NREDCAP.
- The Company shall install wind turbines, so as not to affect the performance of the other wind turbines and maintain safety standards in consultation with NREDCAP.
- 6. The company may explore the possibility of installing higher capacity Wind Electric Generators to achieve higher plant load factor.
- 7. The company shall install the Wind Electric Generators under the project, which are having the approval of National Institute of Wind Energy (Formerly C-WET)
- 8. No second hand or used wind turbines, imported from abroad or procured locally shall be installed.
- If there is any change in the proposal submitted along-with the application, the same shall be brought 'to the notice of NREDCAP and approval shall be obtained for such changes.
- 10. The wind farm developer should ensure that the wind mill generate grid quality power with power factor not less than 0.85 and should draw minimum reactive power

For Pujaa Shree Green Ranewable Energy Won Private kimited

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- 11. The company can sell the projects/ sub-projects to promoters with prior approval of NREDCAP/ Government of Andhra Pradesh, duly complying with the payment of fee and other requirements if any.
- 12. The Company shall abide by the regulations of the Andhra Pradesh Electricity Regulatory Commission (APERC). The proceedings issued by APERC from time to time shall be followed.
- 13. The company shall enter into Power Purchase Agreement or Open access agreement or Wheeling agreement with DISCOMs as per the policy of the Govt. in this regard from time to time.
- 14. The company shall pay the application fee of Rs.25000/- Plus Service Tax per MW, Rs.1.50 Lakh plus service tax per Megawatt as sanction fee and any other fee payable as per the Govt. Orders/Statutory requirement, on commissioning of wind power project capacity wise in phased manner.
- 15. The company shall obtain all clearances necessary for installation of wind electric Generators in accordance with statutory provisions, guidelines issued by the Government of India and the Government of Andhra Pradesh from time to time.
- 16. The company shall complete the financial closure within a period of six months from the date of signing of the Agreement or before such extensions as may be accepted and granted by the NREDCAP on request by the company on account of delays in obtaining all necessary consents, licenses, authorizations and clearances required from the Government of Andhra Pradesh and Government of India.
- 17. The company shall execute the work as per terms of the allotment letter and complete within 12 months from the date of achieving the financial closure. In case, the company fails to execute the work within the stipulated time, NREDCAP will recommend to Govt. for the resumption of land and the project allotment will be cancelled.
- 18.At the time of land allotment, the company shall give a schedule of execution of the project. The project must be commissioned as per the time lines prescribed in the PIA and Project Agreement. Bank Guarantee provided for Rs.200.00 Crores by M/s Suzlon Energy Ltd towards performance guarantee as per the provisions of PIA and Project Agreement shall be considered for levying of penalties imposed, if any due to delay in execution of project capacities. On proportionate basis.

For Pujaa Shree Green Renewable Energy Won Private Limited

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- 19. If the company fails to complete the project as per agreed schedule, the penalties will be imposed as per the terms of the agreement and if the project is not commissioned as per the schedule, all permissions including the allotment of land would stand automatically cancelled and the bank guarantee given by the company will be encashed.
- 20. The company shall permit the other wind developers to use the roads and other infrastructure facilities if any on the allotted land and also provide infrastructure and other facilities for conveyance and for transmission of power necessary in that area.
- 21. The company shall permit the officers of the New and Renewable Energy Development Corporation of A.P. Ltd / Government of Andhra Pradesh / Government of India for inspection/verification.
- 22. The company shall prepare an action plan in detail for completion of wind power project allotted and communicate the action plan for each item of work within 3 months from the date of signing of agreement. The company shall submit quarterly progress reports for each quarter ending March, June, September and December. The progress will be reviewed by NREDCAP, based on quarterly report regularly. Based on progress of works against set mile stones, NREDCAP may consider for reduction of Bank guarantee and accordingly to release the proportionate bank guarantee.

The receipt of the letter may be acknowledged.

V.C & MANAGING DIRECTOR

To

M/s Axis Energy Ventures India Pvt. Ltd, PMR Plaza, Plot No. 3, H. No. 6-3-680/8/3, 2nd floor, Thakur Mansion Lane, Somajiguda, HYDERABAD-500 082.

CC to M/s Suzion Energy Ltd, "One Earth Bulding, Hadapsar, Pune-411028 Copy to Chairman and Managing Director, APEPDCL, Visakhapatnam Copy to Chairman and Managing Director, APSPDCL, Tirupati. Copy to Executive Director, Planning, RAC & Reforms, Transmission Corporation of Andhra Pradesh Ltd (AP TRANSCO), Vidyut Soudha, Hyderabad Copy to the Chief Engineer, IPC, AP Power Coordination Committee, AP TRANSCO, Hyderabad.

Copy to the District Collector, Ananthapuram

Copy to the District Manager, NREDCAP, Ananthapur District

Energy Won Private Limited

Authorised Signatory



తెలంగాణ तेलंगाना TELANGANA

SI. No: 15641 Date.06/06/2016.

Sold To : Karunakar

S/o : Late. Ramulu R/o. Hyd.

To Whom : Axis Energy Ventures India Pvt Ltd.

ALUAN 257835

K. N. LAL BABU
Licenced Stamp Vendor
LICENCENO.16-07-086/2012,
R.L.NO.16-07-002/2015.
H.No.3-5-948/91/A, Himayath Nagar
HYDERABAD DISTRICT
PHONE NO. 09492424379

AGREEMENT

THIS AGREEMENT is entered into on this day of June 2016, at Hyderabad, by and between

New and Renewable Energy Development Corporation of Andhra Pradesh Itd., a fully owned State Government Company, registered under the Companies Act, 1956, having its office at 5-8-207/2, Pisgah Complex, Nampally, Hyderabad 500 001 (India), represented by its Vice Chairman & Managing Director, hereinafter referred to as the NREDCAP which expression shall, unless it be repugnant to the context or meaning thereof, include its administrators, successors and assigns; of the FIRST PART,

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For New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

Vice Chairman & Managing Director

P & MM & IPC

APSPDCL :: TIRUPATI

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Energy Won Private Limited

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AND

(2) M/s Axis Energy Ventures India Pvt. Ltd, a company incorporated under the Companies Act, 1956 having its office at PMR Plaza, Plot No. 3, H. No. 6-3-680/8/3, 2nd floor, Thakur Mansion Lane, Somajiguda, Hyderabad-500 082 represented by its Chairman & Managing Director, Sri K. Ravi Kumar Reddy, hereinafter referred to as the 'Developer' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators and permitted assignees, of the SECOND PART.

The NREDCAP and the Developer are severally referred to as the Party and collectively as Parties.

WHEREAS,

- NREDCAP is the Nodal Agency for approval of wind energy projects upto 40 MW capacity and, therefore, for setting up of wind farms in the Potential Areas in the State of Andhra Pradesh as per the guidelines of the Ministry of New and Renewable Energy (MNRE), Government of India and also the guidelines under the Andhra Pradesh Wind Power Policy-2015 of the Government of Andhra Pradesh (GOAP) notified vide GO MS No.9, Energy Infrastructure & Investment (PR-II) Department, dated 13-02-2015 (hereinafter called the 'Policy') as well. For the projects with more than 40 MW Capacity, the GOAP grants clearance on the recommendations of NREDCAP. The Policy, inter-alia, aims at encouraging optimum utilization of the available wind power potential in the State by facilitating adoption of state of art technology through private participation, balancing the interest of the customers and the developers, permitting the developers for using the power produced for captive consumption or making sale to a third party or to DISCOMs as per the guidelines under the Policy, and the Indian Electricity Act 2003 and the rules and regulations made and the directions issued by GOAP thereunder. Under the Policy the Developer is also eligible for certain incentives and concessions. As per the existing Policy guidelines of NREDCAP, where the Developer is a manufacturer or supplier, such Developer can transfer the capacities allotted to it to any customer provided prior approval of NREDCAP stipulating such of the terms and conditions as it considers necessary and appropriate is obtained.
- Under the Policy the Eligible Developers have to approach NREDCAP with the prescribed application for allotment of wind power capacity allotment in the potential areas. After due consideration of the eligibility and other factors, NREDCAP sanctions the capacity in favour of the applicant duly specifying the terms and conditions of sanction. On fulfillment of the conditions of the sanction, the Developer has to approach the Government/District Collector in case the potential area is located in the government lands for allotment of land as recommended by NREDCAP, and in case the potential area is located in private lands the Developer shall acquire the land from the owners.

or Pujaa Shree Graen Renewable Energy Won Private ichairman & Managing Director For New & Renewable Energio Developolient Corporation of Andhra Pradesh Ltd. Vice Chairman & Managing Director

CHIEF GENERAL MANAGER P & MN & IPC

C. The Developer has submitted an application on 20.04.2016 for allotment of 2290.30 MW capacity at different locations as detailed below (hereinafter called the 'Area'). NREDCAP through its sanction Letter No. NREDCAP/WE/Axis/503/2016/1055, dated.30.05.2016 has sanctioned for setting up and operation of the Wind Farm Project for generation of 2290.30 MW capacity (hereinafter called the 'Project) as per the approval accorded by the GOAP vide Letter No. 479/POWER.II.2/2016, dt. 11.05.2016 stipulating the terms and conditions therefor and for entering into this Agreement.

SI. No.	Location/Site	District	Capacity (In MW)
01	Amidyala West	Ananthapuramu	210.00
02	MPR Dam/Kuderu	-do-	
03	Beluguppa	-do-	106.00
04	Govindavada		100.80
05	Kanekallu	-do-	310.80
06	Vidapanakallu	-do-	399.00
07	Erragunta	-do-	399.00
08	The state of the s	-do-	199.50
00	Borampalle East/ Nuthimadugu	-do-	367.80
09	Kadiridevarapalli	-do-	197.40
	Total	40	2290.30

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

ARTICLE 1

DEFINITIONS AND INTERPRETATION

1.1 Definitions

In this Agreement, the words and expressions, unless and otherwise defined or described herein, shall, unless repugnant to the context or meaning thereof, have the meaning assigned in the Andhra Pradesh Electricity Reforms Act 1998 (APERC Act), the Indian Electricity Act 2003 and GO Ms. No. Ms. No.9, Dt. 13.02.2015 of Energy I &I (PR.II) Dept, GOAP

1.2 Public Interest

The award, Development, Operation and Maintenance of the Project is in public interest.

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For New & Renewable Energy Development Corporation of Andhra Pragesh Ltd.

Vice Chairman & Managing Director

CHIEF GENERAL MANAGER

1.3. Essence of Time

As the Project Implementation is as per a pre-decided time schedule, the Developer shall ensure that the Project is executed within the Project Implementation Period, to be specific on or before the COD.

ARTICLE 2

GRANT OF ALLOTMENT

2.1 Sanction of Allotment of Capacity

Subject to and in accordance with the terms and conditions set forth in this Agreement and the Developer undertaking to observe and perform the covenants, obligations, responsibilities, terms and conditions of the Agreement NREDCAP hereby sanctions setting up by the Developer of a Wind Farm Project in the identified Potential Area of Kurnool District for generation of wind power for commercial use (sale)/ captive consumption.

Financing

The Developer shall set up and operate the Project with its own finance. There shall be no financial contribution from NREDCAP.

2.2 Applicability of other Laws

The sanction of the Project and its development and operation by the Developer shall be subject to the Indian Electricity Act 2003 and the Rules and Regulations made thereunder from time to time; the Regulations and directions of the Andhra Pradesh Electricity Regulatory Commission (APERC); the Policy as amended from time to time and all other Applicable Laws.

2.3 Sanction Fee

The sanction fee paid by the Developer in terms of the sanction letter for entering this Agreement is one-time payment and non-refundable.

2.4 Facilitation by NREDCAP

NREDCAP may assist the Developer in securing the required clearances for the Project at the State and Central Government levels and grant of loans by IREDA/PFC/REC and other terms loan Agencies/Commercial Banks without any liability of whatever nature in the event of rejection or delayed issue of such clearances by the relevant agencies. However, this could not be binding on NREDCAP.

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

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For New & Renewable Energy Developine05 Corporation of Andhra Pradesh Ltd.

Vice Chairman & Managing Director

CHIEF GENERAL MANAGER

2.5 Regulation of Allotment

The Policy empowers NREDCAP to regulate the allotment of wind generation power projects.

ARTICLE 3 LAND ALLOTMENT

3.1 Allotment of Government Land

- (a) The Developer shall make an application to Government of Andhra Pradesh/District Collector through NREDCAP to the extent of the land required in case the land where the Project is being set up is Government land with reference to the extent required vis-à-vis the capacity allotted.
- (b) The Developer shall submit a micro-siting map to NREDCAP duly indicating the extent of land along with survey number details. After due scrutiny and vetting of the micro siting map, NREDCAP will recommend the proposal to the District Collector to consider allotment of land for the Project. The extent area of approved could be same or different from the area sought by the developer as per the micro siting map submitted by the developer within the same potential area as per the MNRE guidelines and the decision of NREDCAP shall be final and binding. NREDCAP shall not be responsible nor shall it be liable for non-allotment of the land by the Government for whatever reasons.

3.2 Private Land

Where the Project proposed to be set up is in a private land, the Developer shall make its own arrangements for procurement of land, subject to approval of the area of operation by NREDCAP.

3.3 Proportionate Allotment

- (a) The Developer is aware that the capacity allotment in the potential areas is based on the wind power potential estimated in the micro survey reports prepared by the NIWE or NREDCAP and that the wind power potential assessment made either by NIWE or NREDCAP is only an estimate on broad basis and actual potential may be higher or lower than the estimation made.
- (b) In all such cases of variation, NREDCAP shall have the right as under and the Developer hereby undertakes to abide by the decision of NREDCAP therefor.
- (i) In cases where the actual potential is less than the capacity provisionally allotted based on the estimated capacity, NREDCAP shall have the right, without any liability of whatever nature, to allot the land, government or private, proportionately among the various project developers in the same area based on the actual potential at the site, and

For Axis Energy Ventures India Pvt. Ltd

Pujaa Shree Green Rendered Managing Director
Energy Won Private Limited

Authorised Signatory

For New & Renewable Energy Development Corporation of Andhra Prades Atd.

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Vice Chairman & Managing Director

(ii) In case where the actual potential is higher than the provisionally allotted capacity, the provisionally allotted capacity will remain the same and the land, government or private, will accordingly be allotted proportionally with reference to the actual capacity among the various project development in the same area and any surplus land left over in the area will be allotted to the new developers.

ARTICLE 4

PROJECT COMPLETION AND OPERATION

4.1 Project Completion Period

The Project Completion shall be within 24 months from the date of the Agreement that includes the time required for securing all the Applicable Clearances, Approvals etc., and for Financial Closure. At the time of land allotment, the Developer shall submit to NREDCAP a Project Completion Schedule with set timelines for each component for approval of and monitoring by NREDCAP.

4.2 Delays in Project Completion

- (a) In case of any delay in achieving the timelines under any of the components as per the approved Project Completion Schedule the Developer shall pay to NREDCAP a penalty by way of liquidated damages Rs.40,000 per MW (Rupees Forty thousand only) in case the Project is being set up in Government land; and Rs.20,000 per MW (Rupees Twenty thousand only) in case the Project is being set up in private land, for each 15 days delay or fraction thereof provided such delay shall not extend beyond three months. The said liquidated damages shall be payable by the Developer within such time as may be stipulated in the Notice.
- (b) In the event of Developer failing to pay the amount under Clause (a) above within the stipulated time, the Performance Guarantee will be invoked for the equivalent amount, in which case the Developer shall replenish the invoked amount or shall submit a fresh Guarantee within 7 (Seven) days from the date of such invocation. Failure to do so shall be an event of default and notwithstanding anything contained in the Agreement and without prejudice to its rights and entitlements NREDCAP will have if any under the Agreement, the Agreement shall stand terminated without any further notice of whatever nature and the Developer hereby consents for the same.
- (c) If the Project is not completed even within the aforesaid three months beyond the schedule date of completion, notwithstanding anything contained in the Agreement, the Agreement shall stand terminated at the instance of the Developer without any requirement of issue of any prior notice of whatever nature and the Performance Guarantee shall also stand forfeited. All Clearances, Approvals and Permissions etc., since secured by the Developer shall become inoperative subject to the terms and conditions of issue of such Clearances, and the allotment of land shall also stand withdrawn and resumed.

or Pujaa Shree Green Renewable
Energy Won Privata Limited

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For New & Renewable Energy Development Corporation of Andhra Pradesh Ned.

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Vice Chairman & Managing Director

CHIEF GENERAL MANAGER

(d) NREDCAP or the appropriate authority, on a representation made by the Developer, may grant extension of time for completion of the Project on reasonable and justifiable grounds as in the cases of delay in handing over of the land by the District Collector in spite of sincere approach for the same by the Developer or acquiring the land due to Force Majeure event or any other legal issues or administrative regulations of the Government or any other valid reasons of which the NREDCAP or the appropriate authority consider appropriate and fit. However, such extension shall not be more than 12 months in case of private or Govt. land and or more than 36 months in case of forest lands

ARTICLE 5

PERFORMANCE GUARANTEE

- (a) For due and satisfactory performance of its obligations under the Agreement, the Developer is implementing said project jointly with M/s Suzion Energy Ltd who provided an irrevocable Bank Guarantees towards Performance Guarantees issued by Bank of Baroda, Pune, valid for a period of two years (24 months) for Rs. 200 Crores (Rupees Two hundred Crores only) as per the provisions of PIA and Project Agreement
- (b) In all cases where the Project is not completed within twenty four months and the Agreement is not terminated for whatever reasons including extension of time by levying penalties as in Article 4 above or for any other reasons as provided in the Agreement, it shall be the responsibility of the Developer to get the Bank Guarantee extended within 7 (seven) days of expiry of 24 months, failing which the Agreement shall be deemed to have expired or to have been terminated at the end of the 24th month irrespective of the progress in the Project Completion made.
- (c) The Performance Guarantee will be invoked for any defaults of the Developer and/or towards any dues to NREDCAP as stipulated herein above and also as provided in the Agreement.
- (d) NREDCAP, on an application made by the Developer, may consider releasing proportionate amount of Performance Guarantee based on the substantial progress made in the Project Completion. The decision of NREDCAP in the matter of 'substantial progress' and the quantum of amount to be released shall be final and binding on the Developer and no correspondence from the Developer in this regard shall be entertained.

For Axis Energy Ventures India Pvt. Ltd.

For New & Renewable Energy Development Corporation of Andhra Practash Ltd.

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Vice Chairman & Managing Director

For Pujaa Shree Green Kenswadis Directo

Energy Won Private Limited

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ARTICLE 6

OBLIGATIONS OF DEVELOPER

- **6.1** In addition to and not in derogation or substitution of any of the obligations set out elsewhere in this Agreement, the Developer shall as mandatory obligation-
 - (a) Set up the Project in the specified and demarcated site of the Area.
 - (b) Ensure that the wind turbines installed shall not affect the performance of the other wind turbines and maintain safety standards in consultation with NREDCAP.
 - (c) Explore the possibility of installing higher capacity Wind Electric Generators to achieve higher plant load factor and that the Wind Electric Generators under the project having the approval of NIWE (formerly C-WET) shall only be installed.
 - (d) Ensure that no second hand or used wind turbines, imported from abroad or procured locally shall be installed.
 - (e) Report to NREDCAP if there is any change in the proposal submitted along-with the application, and obtain prior written approval of NREDCAP for such changes.
 - (f) Ensure that the wind mill generate grid quality power with power factor not less than 0.85 and should draw minimum reactive power.
 - (g) Enter into the Power Purchase Agreement or Open Access Agreement or Wheeling Agreement with DISCOMs in terms of the Policy and the orders and/or guidelines of the Government of Andhra Pradesh issued thereunder and also the Indian Electricity Act 2003 and the rules and regulations made thereunder, from time to time.
 - (h) Secure and keep in force at all times all Applicable Clearances, Permits, Sanctions, Approvals and No Objection Certificates necessary for setting up of the Project including installation of Wind Electric Generators under the Applicable Laws from the Relevant Authorities.
 - (i) The company shall enter into Power Purchase Agreement with DISCOMs in respect of Govt. and Forest areas, as per the policy of the Govt. in regard from time to time. In case of wind power capacities set up in private land, the developer shall enter into Power Purchase Agreement or Open Access Agreement or Wheeling Agreement with DISCOMs as per policy decided by the Govt.

For Ards Energy Ventures India Pvt. (o)

or Pujaa Shree Chairman & Managing Director Energy Won Private Limited

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For New & Renewable Energy Development Corporation of Andhra Prageshyted.

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Vice Chairman & Managing Director

- (j) Achieve the Financial Closure within a period of six months from the date of signing of the Agreement or earlier thereto subject to any extension granted in writing by NREDCAP at the request of the Developer either due to delays in securing the Clearances etc. under Clause (h) above or due to any Force Majeure Event. Any extension so granted by NREDCAP shall not ipso-facto extend the Project Completion Period.
- (k) Permit the other wind developers to use the roads and other infrastructure facilities if any on the allotted land and also provide infrastructure and other facilities for conveyance and for transmission of power necessary in that area.
- (I) Ensure in case of company, the shareholder having highest equity in the paid up capital of the company shall continue to hold the same and in any case not less than 26% in case of Partnership firm the Partner holding highest stake in the Firm shall continue as such minimum period of one year after commissioning of the project. This will not be applicable in respect of manufacturers and suppliers of machinery for transfer of capacity once the development is made at the site. No change in the shareholding pattern / the Parties stake in the Firm shall be made without the written approval of NREDCAP. However, the Developer is allowed to sell projects/sub-projects to their customers after development of site with infrastructure including the power evacuation arrangements.
- (m) Ensure that the Project Site remains free from all encroachments and take all steps necessary to remove encroachments, if any;
- (n) Make payment to any Government Agency, if required, for provision of such services as are not provided in the normal course or are available only on payment;
- (o) operate and maintain the Project at all times during the Operations Period in conformity with this Agreement including but not limited to the Specifications and Standards, and Good Industry Practice and as per the orders/guidelines of the Government of Andhra Pradesh under the Policy; and the Indian Electricity Act 2003 and the rules and regulations made thereunder from time to time.
- (p) Keep and maintain the Project Site in a neat and clean and hygienic condition and in conformity with the Applicable Laws and Applicable Permits;
- (q) Comply with all the terms and conditions and satisfactorily performance of all its obligations stipulated under this Agreement in addition to such other obligations and undertakings under the provisions of the land allotment and PPA.

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Cheirman & Managing Director

For New & Renewable Energy Development Contd. 10

Vice Chairman & Managing Director

CHIEF GENERAL MANAGER

- (r) Alone be responsible for all or any risks of whatever nature attached or inherent to development, construction, marketing, operation of and investment in the Project.
- (s) Report to NREDCAP of any default notices issued by the Relevant Authorities in matters concerning the setting up of the Project or its operation and maintenance and the remedial measures being taken/taken by it.
- (t) Pay and discharges all taxes, levies, charges, fees, cess, levies and other impositions of whatever description under law including the service tax concerning the subject matter of the Agreement

ARTICLE 7

PROJECT COMPLETION CERTIFICATE AND INSPECTIONS

7.1. Project Completion Certificate

The Project shall be deemed to have been completed in terms of this Agreement, only after inspection and testing and on issue of the completion certificate by the concerned DISCOM (Power Distribution Company of Andhra Pradesh) or AP Transco (Transmission Corporation of Andhra Pradesh), as the case may be.

7.2 Inspections

NREDCAP through its Authorised Officer/s shall have the right and similarly the officers of other departments/organizations of the Government of India or the Government of Andhra Pradesh having jurisdiction over the Project for inspection of the Project and the Developer shall permit such inspections and failure to do so by the Developer shall be a default.

7.3 Periodical Reports

The Developer shall submit quarterly progress reports for each quarter ending March, June, September and December for review by NREDCAP until commissioning of the Project and thereafter monthly progress reports on power generation.

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

For Pujae Shree Green Renewable Energy Won Private Limited

Authorised Signatory

For New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

Contd. 11

Vice Chairman & Managing Director

CHIEF GENERAL MANAGER

ARTICLE 8

EVENTS OF DEFAULT AND TERMINATION

8.1 Event of Default and Termination

- Save and except as otherwise provided in the Agreement, in case of any default of the Developer, NREDCAP shall have the right to terminate the Agreement with 30 (thirty) days advance notice.
- Upon Termination under Clause (a) above, NREDCAP shall have no obligation to compensate the Developer in any manner.

ARTICLE 9 MISCALLANEOUS

9.1 **Dispute Resolution**

(a) Amicable Resolution

Save where expressly stated otherwise in this Agreement, any dispute, difference or controversy of whatever nature howsoever arising under, out of or in relation to this Agreement including completion or otherwise of the Project between the Parties and so notified in writing by either Party to the other (the "Dispute") in the first instance shall be attempted to be resolved amicably by the Parties.

(b) Appeal

In the event of the Parties not finding an acceptable solution to the dispute(s) within 30(thirty) days, the Developer may appeal to the Chairman of the Board of Directors of NREDCAP whose decision shall be final and binding.

9.2 Governing Law and Jurisdiction

This Agreement shall be construed and interpreted in accordance with and governed by the laws of India and the Courts at Hyderabad, Andhra Pradesh State, India shall have jurisdiction over all matters arising out of or relating to this Agreement.

9.3 Waiver

- Waiver by either Party of any default or any rights under the Agreement by the other Party in the observance and performance of any provision of or obligations or under this Agreement
 - Shall not operate or be construed as a waiver of any other or subsequent default hereof or of other provisions or obligations under this Agreement
 - Shall not be effective unless it is in writing and executed by a duly authorized ii. representative of such Party; and
- Shall not affect the validity or enforceability of this Agreement in any manner.

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For New & Renewable Energy Development Corporation of Andhra Pradoshied.

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Vice Chairman & Managing Director CHIEF GENT OF WANAGER

(b) Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement or any obligation thereunder nor time or other indulgence granted by a Party to the other Party shall be treated or deemed as waiver of such breach or acceptance of any variation or the relinquishment of any such right hereunder.

9.4 Amendments

This Agreement and the Schedules together constitute a complete and exclusive statement of the terms of the Agreement between the Parties on the subject hereof and no amendment or modification hereto shall be valid and effective unless agreed to by the Parties hereto and evidenced in writing.

9.5 Exclusion of Implied Warranties etc.

This Agreement expressly excludes any warranty, condition or other undertaking implied at law or by custom or otherwise arising out of any other agreement between the Parties or any representation by any Party not contained in a binding legal agreement executed by the Parties.

9.6 Counterparts

This Agreement shall be executed in two counterparts on non-judicial papers of Rs.100/- each and registered if required under law at the cost and expense of the Developer which when executed and delivered shall constitute an original of this Agreement

Contd. 13

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

For New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

Vice Chairman & Managing Director

IN WITNESS WHEREOF THE, PARTIES HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

Signed, Sealed and Delivered

For and on behalf of Developer by:

For Axis Energy Ventures India Pvt, I

Signature of Authorised Person

Authorized Signatory

Signed, Sealed and Delivered

For and on behalf of the NREDCAP by:

For New & Renewable Energy Development Corporation of Andhra Pradesh Atd.

Vice Chairman & Managing Director

Signature of Authorised Person

Vice Chairman and Managing Director

Witnesses

In the presence of

1) Signature

Name

P.V. Ramach

P.D, NREDGAP, Hyd

2) Signature

Name

Address

J. VENKATA KUMAR AEVIPL, HYd.

nor Pujas Shree Green Renewable Energy Won Private Limited

CHILL WENERAL MANAGER P & MNI & IPC

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

From:
Executive Director
HRD & Planning,
APTRANSCO, Vidyut Soudha,
Gunadala, Vijayawada - 520004

To,
M/s. Axis Energy Ventures India Pvt Ltd,
2nd Floor, PMR Plaza,
H.No.6-3-680/8/3,
Thakur Mansion Lane,
Somajiguda, Hyderabad-82.

Lr.No.ED/HRD & Plg/DE-REE/ADE-C/F- Axis (Vidapanakallu)/D.No: \34/18, dt24.05.18

Sir.

Sub: Evacuation of 399MW power from Wind Power Project at Vidapanakallu. Ananthapur District to be setup by M/s. Axis Energy Ventures India Pvt Ltd – Amendment to connectivity approval consequent to the SRPC meeting - Reg.

Ref: 1). Lr.No.ED/HRD & Plg/DE-Comml/ADE-C/AE-C/F- Axis (Vidapanakallu)/D.No:609/16, dt:30.08.2016

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APTRANSCO, vide ref (1) cited, has accorded connectivity to your plant for evacuating power from the proposed 399MW Wind Power Project being set-up at Vidapanakallu, Ananthapur District from the upcoming 400/220 KV Uravakonda-2 SS at 220kV level.

As per the in-principle agreed proposal of APTRANSCO in the 42nd Standing Committee Meeting held on 27.04.2018 at Ernakulam, Kerala regarding 400KV Uravakonda-2 SS, APTRANSCO has accorded to issue amendment to the connectivity approval issued to M/s. Axis Energy Ventures India Pvt Ltd vide ref (1) cited as follows.

M/s. Axis Energy Ventures India Pvt Ltd may evacuate power from the proposed 399MW Wind Power Project being set-up at Vidapanakallu, Ananthapur District by connecting to the existing 400/220 KV Uravakonda-1 SS at 220kV level in stead of proposed 400/220KV Uravakonda-2 SS with the following arrangement at 400/220KV Uravakonda-1 SS.

"Reconfiguration with isolation bus arrangements at 220kV and providing 400/220kV, 3 x 500 MVA PTRs along with 1 x 125 MVAR Bus Reactor in addition to the already commissioned 125 MVAR bus reactor at 400kV bus of existing 400/220kV Uravakonda SS instead of approved Uravakonda-2 SS."

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

For evacuation of wind generation, you are requested to lay proposed lines subject to the following conditions.

- The developer has to construct 220kV pooling station at generating site and shall connect radially to the proposed new bus arrangement at 400/220 KV Uravakonda-1 SS. Cost of laying of lines including both side bays is to be borne by the developer as per the regulation in vogue.
- Cost of the Land for 220 kV Bay extensions at APTRANSCO Substation is to be procured by the developer at his own cost and the land is to be handed over to APTRANSCO.
- III. The location of Interface meters is as per the Regulation No.03 of 2017 of APERC Regulation on Power Evacuation from Captive Generation, Cogeneration and Renewable Energy Source Power Plants.
- IV. Further, as per the clause No 4.6.2 of Indian Electricity Grid Code 2010, it is mandatory to provide data to SLDC prior to charging of the equipment. As per the clause 5.2(u) of Indian Electricity Grid Code 2010, Data Acquisition System facility shall be provided at Pooling Station for transfer of information to concerned SLDC and RLDC for Solar/wind generators. Hence it is requested to provide the necessary Substation Automation System (IEC 61850) along with necessary communication system to communicate with ALDC/SLDC for the proposed Wind Generation Pooling station. Presently it should communicate to ALDC/SLDC on IEC 60870-5-101(Serial) protocol and provision to upgrade to IEC 60870-5-104 (TCP/IP) protocol as the SLDC is Scheduled to be upgraded in near future.
- V. The developer is required to maintain a security in the form of Bank Guarantee (BG) of Rs 5.00 Lakhs/MW for First twelve months and Rs 10.00 Lakhs/MW there after until your generating plants are commercially made Operational. Hence it is requested to submit the Bank Guarantee (with claim period of One month after validity period) within one month from the date of receipt of this letter and obtain field feasibility report before entering in to MOU, failing which the connectivity given will be cancelled without further intimation.
- VI. The Wind developer has to furnish forecasting and scheduling and demand estimation by SLDC in compliance with IEGC. Necessary undertaking has to be submitted to the Chief Engineer/SLDC prior to synchronisation.
- VII. The developer has to comply with Central Electricity Authority (Technical Standards for connectivity to the grid) Regulation 2007 and its subsequent

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGER

amendment regulations, 2013 Part- II(B)(B2) and Part-II(B)(B1)) and the wind machines installed at Generating site should comply with LVRT equipment. The necessary type test certificates for LVRT must be approved by NIWE (National Institute of Wind Energy) and the same will be submitted to the Chief Engineer/SLDC/APTransco before synchronization.

The developer/Generators shall submit the static data of each generators such as VIII. WTG site/Location name, GPS coordinates of the Location (Longitude & Latitude), Name of the wind farm owner/Developer, Owner Details, Hub height in m, Blade Length in m, Description of wind Generation data communication. Swept area in Sq m Type of WTG, Make, Sl.No, Model of WTG, Capacity of the Turbine, Wind sensors details of Wind Speed, Wind Direction, Temperature, humidity, Generation Voltage.MW, MVAR.

Hence, you are requested to submit an undertaking on Rs100/- Non Judicial Bond paper for accepting the above terms and conditions.

Further, you are requested to submit your consent to take up the work on turnkey basis and to pay the supervision, engineering and other charges etc. within 15 days from the date of receipt of intimation from APTRANSCO.

After receipt of the consent letter and Undertaking the estimate for the scheme for the above work will be processed for approval.

Yours faithfully.

ZUUS SWH Executive Director (FAC) 2/11

HRD & Planning

Chief Engineer/ Construction/APTRANSCO/VS/Vijayawada

Chief Engineer/Kadapa Zone/APTRANSCO/Kadapa

Chief Engineer/IPC & Power Systems/APTRANSCO/VS/ Vijayawada

Chief Engineer/SLDC /APTRANSCO/VS/ Vijayawada

Chief Engineer/APPCC/Commercial//VS/Hyderabad

Chief General Manager/P&MM & IPC/ APSPDCL/Tirupathi

Superintending Engineer/OMC/APTRANSCO/Ananthapur

Superintending Engineer/Operation/APSPDCL/Ananthapur

M/s NREDCAP, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli-522501

ror Pujas Shree Green Renewable Energy Won Private Limited

CHIEF GENERAL MANAGER P & MM & IPC

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

From:
Executive Director
HRD & Planning,
APTRANSCO, Vidyut Soudha,
Khairatabad, Hyderabad - 500082

To,
M/s. Axis Energy Ventures India Pvt Ltd,
2nd Floor, PMR Plaza,
H.No.6-3-680/8/3,
Thakur Mansion Lane,
Somajiguda,
Hyderabad-82.

Lr.No.ED/HRD & Plg/DE-Comml/ADE-C/AE-C/F- Axis (Vidapanakallu)/D.No: 609 /16, dt: 3 0.08.2016

Sir,

Sub: Evacuation of 399MW power from Wind Power Project at Vidapanakallu, Ananthapur District to be setup by M/s. Axis Energy Ventures India Pvt Ltd – Reg.

Ref: 1. Your Application Dt: 09-06-2016.

2. M/s NREDCAP /WE/PE/34/2016, Lr Dt: 09.06.2016

* * *

M/s NREDCAP recommended 399MW capacity allocation to your company vide reference 2nd cited for immediate implementation. It is to inform that, APTRANSCO has accorded connectivity to your plant for evacuating power from the proposed 399MW Wind Power Project being set-up at Vidapanakallu, Ananthapur District to be setup by M/s. Axis Energy Ventures India Pvt Ltd from the upcoming 400/220 KV Uravakonda-II SS at 220kV level.

For evacuation of wind generation, you are requested to lay proposed lines subject to the following conditions.

- I. The developer has to construct 220kV pooling station at generating site and shall connect radially to LV Bus of upcoming 400/220 KV Uravakonda-II SS. Cost of laying of lines including both side bays is to be borne by the developer as per the regulation in vogue.
- II. Cost of the Land for 220 kV Bay extensions at APTRANSCO Substations is to be procured by the developer at his own cost and the land is to be handed over to APTRANSCO.
- III. The location of Interface meters is as per the OP. No.40 of 2010 APERC Guidelines on Power Evacuation from Wind projects in Andhra Pradesh, APERC Regulation No.01/2015 (Terms and conditions for Tariff determination for wind power projects and respective agreement conditions).

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorized Signatory

- IV. Further, as per the clause No 4.6.2 of Indian Electricity Grid Code 2010, it is mandatory to provide data to SLDC prior to charging of the equipment. As per the clause 5.2(u) of Indian Electricity Grid Code 2010, Data Acquisition System facility shall be provided at Pooling Station for transfer of information to concerned SLDC and RLDC for Solar/wind generators. Hence it is requested to provide the necessary Substation Automation System (IEC 61850) along with necessary communication system to communicate with ALDC/SLDC for the proposed Wind Generation Pooling station. Presently it should communicate to ALDC/SLDC on IEC 60870-5-101(Serial) protocol and provision to upgrade to IEC 60870-5-104 (TCP/IP) protocol as the SLDC is Scheduled to be upgraded in near future.
- V. The developer is required to maintain a security in the form of Bank Guarantee (BG) of Rs 5.00 Lakhs/MW for First twelve months and Rs 10.00 Lakhs/MW there after until your generating plants are commercially made Operational. Hence it is requested to submit the Bank Guarantee (with claim period of One month after validity period) within one month from the date of receipt of this letter and obtain field feasibility report before entering in to MOU, failing which the connectivity given will be cancelled without further intimation.
- VI. The Wind developer has to furnish forecasting and scheduling and demand estimation by SLDC in compliance with IEGC. Necessary undertaking has to be submitted to the Chief Engineer/SLDC prior to synchronisation.
- VII. The developer has to comply with Central Electricity Authority (Technical Standards for connectivity to the grid) Regulation 2007 and its subsequent amendment regulations, 2013 Part- II(B)(B2) and Part-II(B)(B1)) and the wind machines installed at Generating site should comply with LVRT equipment. The necessary type test certificates for LVRT must be approved by NIWE (National Institute of Wind Energy) and the same will be submitted to the Chief Engineer/SLDC/APTransco before synchronization.
- VIII. The developer/Generators shall submit the static data of each generators such as WTG site/Location name, GPS coordinates of the Location (Longitude & Latitude), Name of the wind farm owner/Developer, Owner Details, Hub height in m, Blade Length in m, Description of wind Generation data communication, Swept area in Sq m Type of WTG, Make, Sl.No, Model of WTG, Capacity of the Turbine, Wind sensors details of Wind Speed, Wind Direction, Temperature, humidity, Generation Voltage.MW, MVAR.

For Pujas Shrea Green Renawable Energy Won Private Limited

CHIEF GENERAL MANAGER

Hence, you are requested to submit an undertaking on Rs100/- Non Judicial Bond paper for accepting the above terms and conditions.

Further, you are requested to submit your consent to take up the work on turnkey basis and to pay the supervision, engineering and other charges etc. within 15 days from the date of receipt of intimation from APTRANSCO.

After receipt of the consent letter and Undertaking the estimate for the scheme for the above work will be processed for approval.

Yours faithfully,

B.V. Shaulti Lola 30/8/11
Executive Director 12/12
HRD & Planning

Copy to:

Chief Engineer/Construction/APTRANSCO/VS/Hyderabad Chief Engineer/Kadapa Zone/APTRANSCO/Kadapa Chief Engineer/IPC & Power Systems/APTRANSCO/VS/Hyderabad Chief Engineer/SLDC /APTRANSCO/VS/Hyderabad Chief Engineer/Commercial/APTRANSCO/VS/Hyderabad Chief General Manager/P&MM & IPC/ APSPDCL/Tirupathi Superintending Engineer/OMC/APTRANSCO/Ananthapur Superintending Engineer/Operation/APSPDCL/Ananthapur M/s NREDCAP, 5-8-207/2, Pisgah Complex, Nampally, Hyderabad – 500001

CHIEF GENERAL MANAGER

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For Pujaa Shree Green Renewable Energy Won Private Limited

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Guidelines on Power Evacuation from Wind Power Projects in Andhra Pradesh

- The Wind power projects are mostly developed as cluster. The power evacuation scheme for such cluster projects consists of the following:
 - (a) Laying of 33 KV feeders for evacuation of power from all Wind projects in a site.
 - (b) Construction of Extra High Tension Substation (EHT SS) (Receiving / Pooling SS) for grouping the total Wind power and step up to higher Voltage level.
 - (c) EHT Line for interfacing Pooling SS to existing nearest APTRANSCO network.
- 2. In case of Wind power projects which may come up as independent projects at a particular location, they will normally be interfaced to nearest grid SS at available Voltage level.
- 3. The Power Evacuation from prospective Wind power projects will be governed by the guidelines mentioned below:
 - (i) Voltage level of evacuation:

At 33 KV level:

The Wind power projects supply intermittent energy. These are seasonal and operate at low capacity. As such, evacuation of Wind power at 33 KV level is permitted as mentioned below duly taking into consideration of the type of conductor to be used and corresponding current carrying capacity as per the Bureau of Indian Standards (BIS) vide IS398/Part-IV:

For Fujas Shree Grass Renewable Energy Won Private Limited

Page 1 of 8

SI.	Project interfacing		Type of	Current	Calculated	Proposed Wind
No.	From	То	AAAC Conductor (size)	carrying capacity at 45 ⁰ ambient temp. as per standard	power carrying capacity at 33 KV level	power capacity on each 33 KV line considering the temp. rise in conductor
(A)	(B)	(C)	(D)	(E)	(F) = (/3 x33 KV x Current X PF at 0.9)	(G)
1	Wind project	project 33/11 KV DISCOM SS	55 sqmm	173 Amps	8.91 MW	8 MW
			100 sqmm	254 Amps	13.08 MW	10 MW*
			150 sqmm	370 Amps	19.05 MW	
2	Wind project	EHT	55 sqmm	173 Amps	8.91 MW	8 MW
		or existing	100 sqmm	254 Amps	13.08 MW	12 MW
			150 sqmm	370 Amps	19.05 MW	17 MW

At EHT level:

Project interfacing		EHT Level	Existing	Proposed Wind power	
From	То		permissible capacity	capacity	
Pooling SS	Existing APTRANSCO EHT SS	132 KV	40 MW	(i) Up to 50 MW on SC Line (ii) Above 50 MW to 100 MW on DC Line	
Pooling SS	Existing APTRANSCO EHT SS	220 KV	80 MW	Above 100 MW	

The above evacuation facilities are permitted specifically for Wind power projects only, considering the following:

(a) The Wind power projects are renewable and have low Capacity Utilization Factor (CUF).

For Pujaa Shree Green Renewahle Energy Won Private Limited

Page 2 of 8

CHIEF GENERAL MANAGER

(b) The Wind power projects are seasonal and operate at lesser capacity during most of the time.

(c) The optimum utilization of infrastructure will help the Wind power projects to enhance financial viability.

The above provisions shall not be adopted for other Non-conventional power projects, Conventional power projects and any other projects.

(ii) Metering Point and energy accounting:

(a) For Wind power projects coming under cluster scheme:

The common metering for Wind projects connected to a Pooling Substation (SS) shall be provided at EHT side of Power Transformer (PTR) in Pooling SS. This point shall be considered as Interconnection point where energy is delivered by each Wind power project to grid for sale. Also, metering for each individual project shall be provided at Project's switchyard (on 33 KV side of 415 V/33 KV Generator Transformer). As such, each Wind power project will have two metering points, one at Project's switchyard and another metering point is common metering point at EHT Pooling SS.

The DISCOM Officers & Wind Power Producer's representative shall take Joint meter readings for individual meters (at Project's switchyard) and common meter (at EHT side of pooling SS) every month.

The DISCOM will make payment to each Wind power project for delivered energy, which shall be calculated as per the formula mentioned below:

Delivered Energy to be billed for an individual project = X_1 - $(X_1 \times Z_2)$

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Page 3 of 8

CHIEF GENERAL MANAGER P & MM & IPC

Where

 X_1 is the reading of the energy meter installed at the Project Site.

Z is the percentage line loss incurred in the 33 KV line between the Project and the Pooling (Receiving) Station and shall be:

$$Z = \begin{cases} (X_1 + X_2 + X_3 + X_4 + \underline{\hspace{1cm}}) & -- & Y \\ (X_1 + X_2 + X_3 + X_4 + \underline{\hspace{1cm}}) & & X & 100 \end{cases}$$

Where

Y is the reading of the common meter installed on EHT side of the Pooling SS and X1, X_2 , X_3 , X_4 etc. are the readings of the energy meters installed at the various individual Wind projects connected to the Pooling Station.

(b) For Wind power projects coming as individual projects:

Metering shall be provided at designated APTRANSCO /DISCOM SS. The DISCOM Officers & Wind Power Producer's representative shall take Joint meter readings every month. The DISCOM will make payment for the energy recorded by the meter provided at SS.

(iii) Cost of power evacuation:

(a) For Wind power projects coming under cluster scheme:

The Cluster Project Developers and Wind Power Producers shall bear the entire cost for interconnecting the Wind projects with the grid and delivery of energy for sale, but not limited to, cost of 33 KV networks for interfacing individual Wind power projects to the Pooling SS, the cost of Pooling SS, Metering at individual project sites & Pooling SS etc., and cost of EHT line for interfacing Pooling SS with APTRANSCO network including cost of additional infrastructure on APTRANSCO side, required if any.

(b) For Wind power projects coming as individual projects:

The entire cost of evacuation shall be borne by the Wind Power Producer along with metering facility at SS and cost of necessary modifications/augmentations required, if any, at Grid SS.

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Page 4 of 8

(iv) Owning & O & M of infrastructure for lifetime:

The ownership of 33 KV network along with Pooling SS will be with the Wind Power Producers, who will own the Wind power projects connected to the Pooling SS. It shall be the duty of the Wind Power Producers, being the owners of the generating companies to operate and maintain the 33 KV network and Pooling SS as per the rules and regulations made for the purpose.

After completion of work, the ownership of EHT Line from Pooling SS to APTRANSCO grid shall be transferred to APTRANSCO and APTRANSCO shall carryout O&M of EHT line.

(v) Power evacuation scheme finalization & sanctioning of estimate:

The Cluster Project Developer or Wind Power Producers shall approach APTRANSCO with the details of proposed Wind power project scheme, which shall include proposed Wind power capacity, the location of Project, the proposed site & capacity of Pooling SS, nearest APTRANSCO grid to which the project is intended for interfacing, EHT Line voltage level etc.

APTRANSCO will study the proposed scheme and will intimate the feasibility for power evacuation. The APTRANSCO will approve the power evacuation scheme and also sanction the necessary estimates. APTRANSCO will also approve necessary drawings.

With regard to 33 KV networks, the Cluster Project Developer or Wind Power Producers shall approach the concerned DISCOM, who will sanction necessary estimates and drawings.

(vi) Execution of Power evacuation work & Synchronization of Wind power projects with grid for commercial operation:

APTRANSCO / DISCOM will take up the evacuation work on payment of total estimated cost by the Cluster Project Developer and / or Wind

Page 5 of 8

For Pujaa Shreo Green Renewable Energy Won Privato Limited

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CHIEF GENERAL MANAGER

Power Producers. Alternatively, the Cluster Project Developer and / or Wind Power Producers can take up the work on turnkey basis by paying supervision charges to APTRANSCO / DISCOM.

The supervision charges applicable to Wind power projects will be as follows:

- (i) 5% supervision charges on 33 KV network from Wind power projects to Pooling SS.
- (ii) 5% supervision charges on EHT Pooling Substation upto common metering point on HV side, which will be the interconnection point with the grid.
- (iii) 10% supervision charges on EHT System beyond interconnection point.

The above concessional supervision charges are applicable specifically for Wind power projects only, considering the following:

- (a) Wind power projects are renewable in nature and there is a need to encourage such renewable sources of power.
- (b) Andhra Pradesh is having one of the highest Wind potential but lowest investments. There is a need to maximize the utilization of such potential of renewable power.

The above concessional supervision charges are applicable to Wind power projects only and shall not be adopted for other Non-conventional power projects, Conventional power projects and any other projects.

The concessional supervision charges are applicable only for estimates to be sanctioned in future for evacuating energy from Wind power projects.

For Pujas Shree Green Renewable Energy Won Private Imited

Page 6 of 8

Where works are entrusted on turnkey basis, APTRANSCO Officers along with concerned DISCOM Officers shall supervise the evacuation works awarded on turnkey basis. The Cluster Project Developer and Wind Power Producers shall strictly adhere to the conditions stipulated in sanctioned estimate.

The Cluster Project Developer or Wind Power Producers shall file an application with DISCOM and obtain Temporary Power Supply for construction purpose. The Cluster Project Developer or Wind Power Producers shall have to pay all applicable charges for availing temporary power supply.

The metering for Wind projects shall be provided as per the standards laid down by APTRANSCO / DISCOM from time to time. The meters shall be tested at Central Government approved laboratory before installation. The Meters shall be installed and sealed by the authorized Officers of APTRANSCO and DISCOMs only.

After complete erection of the power evacuation infrastructure, the concerned Officers of APTRANSCO & DISCOMs shall inspect the same and confirm readiness for energisation. The Cluster Project Developer and / or Wind Power Producers shall obtain required approvals from Chief Electrical Inspector to the Government (CEIG) and other Government agencies as required from time to time.

The APTRANSCO & DISCOM shall issue permission for extending temporary supply for testing of Wind projects along with associated equipment. Power supplied from the grid to Projects during testing will be charged at HT-I Temporary Tariff and will be collected by DISCOM. The energy pumped into the grid during testing, if any, up to commencement of Commercial Operation shall be free of cost. This energy need not be taken into account for billing. The Officers of DISCOMs & APTRANSCO will witness testing and satisfactory performance of Wind projects.

For Pujaa Shree Green Renewable Energy Won Private Limited

Page 7 of 8

The concerned DISCOM will issue permission for synchronization of Wind projects with the Grid for Commercial Operation and date on which 1st Wind generator of Project synchronizes with the grid for Commercial Operation shall be the Commercial Operation Date (COD) of the project.

(vii) Addition of loads to Pooling SS:

Whenever necessity arises, the Wind Power Producers shall permit APTRANSCO & DISCOM to connect loads to the Pooling SS at EHT level after the metering point without asking any compensation. However, the APTRANSCO & DISCOM shall ensure that connection of loads to Pooling SS will not have adverse effect on power evacuation from Wind power projects.

The APTRANSCO & DISCOM shall bear cost of new infrastructure proposed and also shall bear the cost of O & M of new infrastructure.

(viii) Execution of PPAs:

The Power Purchase Agreement (PPA) between the wind power producer and the Discom shall be as per the standard format approved by Andhra Pradesh Electricity Regulatory Commission (APERC).

* * *

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For Pujaa Shree Green Renewable Energy Won Private Limited

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ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

Hyderabad

Dated: 30-03-2010

Present:

Sri A.Raghotham Rao, Chairman Sri R.Radhakishen, Member Sri C.R.Sekhar Reddy, Member

O. P. No. 40 of 2010

In the matter of approval of format for Power Purchase Agreement (PPA) and Guidelines on Power Evacuation from Wind Power Projects in Andhra Pradesh

1. The Andhra Pradesh Electricity Regulatory Commission passed orders on 01-05-2009 in O.P. Nos. 6&7 of 2009, determining the tariff for Wind Power Projects. As per the said orders, the tariff for Wind Power Projects for which PPAs would be entered into between 01-05-2009 and 31-03-2014, shall be firm at Rs. 3.50 per unit for the first ten (10) years from Commercial Operation Date (COD). The orders also stipulated that the

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eligible developer shall bear the entire cost of power evacuation facilities for interconnecting the Wind Firms with the Grid and delivery of power.

- 2. Against the above backdrop, a petition was filed by 4 DISCOMS & APTRANSCO (herein after referred to as petitioners) on 20-08-2009, seeking orders u/s 86 (1) (b) & (e) of the Electricity Act, 2003 read with sec: 21 (4) of APER Act, 1998, for approval of guidelines for evacuation of power from Wind Power Projects and format of revised standard PPA. The motivation for filing the above said petition, as stated in the petition itself, is a request from the prospective Wind Power Project developers seeking issuance of guidelines on power evacuation facilities and making certain amendments to the existing standard PPA towards uniform and Regulatory approved guidelines for evacuation facilities and power purchase agreement format which will provide clarity and help in sustainable promotion of Wind Power Projects. Obviously the petition is a next step to orders determining tariff for the wind projects towards attracting investments in the wind sector in the state of Andhra Pradesh. Admittedly, the guidelines on power evacuation facilities and PPA format have been evolved in consultation with prospective developers and Non Conventional Energy Development Corporation of Andhra Pradesh (NEDCAP).
- 3. The petition was taken on record by the Commission and was assigned O.P.No.40 of 2009. Thereafter, Public Notice was issued on 26-10-2009

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inviting the views of Public and other Stakeholders on the petition filed by the 4 Discoms and AP Transco which was placed on the official website of the Commission. The last date for receipt of views was 15-11-2009 and thereafter a Public hearing was scheduled for 30-11-2009.

- 4. In response to the above notice, two (2) Associations viz. (1) Indian Wind Turbine Manufacturers Association (IWTMA) and (2) Indian Wind energy Association (InWEA) filed their written submissions with a copy to the Chief Engineer/ IPC/ APPCC, the petitioner on 11-11-2009 and 23-11-2009 [InWEA took permission to file their written submissions after the due date of 15-11-2009] respectively. The Commission had directed the petitioner to file their responses vide letter dated 25-11-2009 with a copy to the above two Associations. The petitioner had filed their responses vide their letter dated 30-12-2009. Subsequently, the matter was part heard on 30-11-2009 and thereafter finally heard on 10-02-2010. During the hearings, in addition to the petitioner and members of the above said associations, a representative of (NEDCAP) was also present.
- 5. The Commission, having perused the record and with due regard to the written and oral submissions of the above said two associations, together with the written and oral responses of the petitioner, and also cognizing the views of the representative of the NEDCAP, identified the following key issues in the context of approval of guidelines for evacuation of power from

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wind power projects and approval of format of revised standard power purchase agreement:

- (i) Whether Choice of conductor (technology, size, and loading) at 33 kV level should be left to the developer.
- (ii) Whether there is any need for sanctioning of estimates and drawings by any agency, since the 33 kV system is constructed, operated and owned by the developer.
- (iii) Whether supervision charges are to be levied, since the 33 kV network is constructed, owned and operated by the wind firm developer.
- (iv) Whether there should be a provision for the individual projects to be inter-connected to the grid network also.
- (v) Whether Explanation 2 under Delivered Energy clause is to be modified.
- (vi) Whether certain additional undertakings of Discoms need to be inserted under clause 6.2 of the PPA.

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- (vii) Whether seeking approval of guidelines for power evacuation by the licensee has legal validity.
- (viii) Whether evacuation costs beyond metering point should be borne by STU.
- (ix) Whether differential treatment for Cluster and Individual projects can be allowed.
- (x) Whether deemed generation clause needs to be incorporated into the PPA:
- 6. The detailed examination of the key issues and findings of the Commission thereon are as under:
 - (i) Whether Choice of conductor (technology, size, and loading) at 33 kV level should be left to developer: IWTMA suggested that in the draft guidelines, choice of the Conductors has been limited to only AAAC Conductors which is not appropriate as there are several other types of conductors available in the Market like ACSR, new technologies like ACCC etc. They further stated that the developer should be left free to adopt available technologies and the size, type and loading on the conductors based on thermal limits. On this, the petitioner stated that the limit of

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power to be transferred at specific voltage level is characterized by current carrying capacity of the conductor and voltage regulation and as such, there was requirement to specify the permissible capacity on specific conductor at specific voltage. They further stated that the other states' ERCs have also specified the norms for injection of power by NRE projects to the state grid, and that the Rajasthan Electricity Regulatory Commission in its order dt. 31.3.2006 had stipulated the norms for connectivity of NRE projects with the grid. The petitioners requested the Commission to approve the evacuation norms for Wind power projects to be permitted at 33 KV level as proposed. The representative of the NEDCAP also opined that from the point of view of ensuring uniformity in the Grid, the choice of selecting the technology, size, type and loading of the conductor cannot be left to the developer. After a detailed examination of the technical considerations, the Commission is of the view that no changes are warranted on this account, in the evacuation guidelines or the PPA format submitted by the petitioner.

(ii) Whether there is any need for sanctioning of estimates and drawings by any agency since 33 kV system is constructed, operated and owned by the developer: IWTMA stated that the 33 kV line is constructed, operated and owned by the Wind firm developer and as such 33 kV systems should not be subject to sanctioning of estimates or drawings from any of the agencies. In response, the petitioner stated that Section 7 of the Electricity Act, 2003

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stipulates that a generating company has to comply with technical standards relating to connectivity with grid, referred to in clause (b) of Section 73. The petitioner further stated that the Central Electricity Authority's (CEA) notified regulations on technical standards for connectivity to the grid, and particularly Clause 6 (6) of the above said regulation, stipulates that a generating company has to make a request for connection in the planning stage to the transmission or distribution licensee, as the case may be, and the licensee should carry out interconnection study to determine the interconnection point, required interconnection facilities and modifications required to the existing grid. The petitioner further added that the regulation also states that the study may also address transmission system capability, losses and voltage regulation etc., and as such, the Transmission and Distribution licensees have to study and finalize the inter connection scheme for wind power projects. The petitioner further stated that states like Karnataka and Tamilnadu are also following a similar procedure. The Commission having considered the views of both the parties, is of the view that sanctioning of estimates and approval of drawings has to be necessarily done by the concerned licensees, in as much as the 33 kV system, even though owned and operated by the developer, will ultimately form part of the grid and as such supervision by the licensee is a necessity and is in line with provision of the EA 2003 and accordingly, no changes are warranted in the evacuation guidelines and the format PPA submitted by the petitioner.

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(iii) Whether supervision charges are to be levied since 33 kV network is constructed, owned and operated by the wind firm developer: IWTMA pointed out that since the entire 33 KV network from the Wind turbine up to and including the Wind farm pooling station is constructed, owned and operated by the Wind firm developer, there should not be any supervision charges payable to APTRANSCO or DISCOM. In response to this, the petitioner stated that the evacuation scheme executed by Wind developers required to be supervised by the concerned Officers of transmission and distribution licensee for adherence to the standards/norms. The petitioner further stated that, to promote Wind power projects, the Transmission and Distribution licensees have already agreed to collect concessional supervision charges and that the charges proposed are minimum, when compared to similar charges being collected in Tamilnadu and Karnataka from Wind power projects. Further, the representative of NEDCAP also supported the stand of the petitioner. The Commission, noting that the evacuation scheme executed by the developer is to be supervised by the concerned officers of the petitioner, and also upon cognizing that such charges are already concessional besides being in the nature of one time payment, is of the view that supervision charges are to be necessarily paid by the wind developer and accordingly no change is warranted to the guidelines for evacuation of power from wind power projects or the PPA format as filed by the petitioner on this account.

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(iv) Whether there should be a provision for the individual projects to be inter- connected to the grid network also: IWTMA stated that the individual Wind power projects may be interconnected with the nearest grid SS or grid network [addition suggested by IWTMA]. In response, the petitioner stated that as per the existing procedure, the wind power projects and other NRE projects coming up as independent projects at specific location have to be interfaced to the nearest sub station with dedicated line and metering shall be provided at sub station. The petitioner has further brought to the notice of the Commission that very less capacity of wind power projects will come up as individual projects. NEDCAP also confirmed that in AP Projects are coming up in clusters. In view of the above position, and duly recognizing that in AP individual projects are not very likely to come, Commission is of the view that no changes are warranted on this account to the evacuation guidelines or the PPA format as filed by the petitioner.

(v) Whether Explanation 2 under Delivered Energy clause is to be modified: IWTMA stated that the Definition of Delivered Energy (Definition1.5) is very clear and precise, whereas, the Explanation 2 under the Delivered Energy clause is ambiguous and redundant. They further stated that, whatever a wind farm generates from the agreed capacity as per the preamble and Project Definition (Definition 1.13), the same will become the delivered

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energy and as such the question of calculation of energy based on the number of hours and fraction thereof, and limiting the delivered energy to that extent will not arise at all. IWTMA finally stated that this explanation will definitely lead to confusion in the future and therefore should be removed. In response, the petitioner stated that the explanation is already approved by the Hon'ble Commission in the earlier PPAs, and that the explanation indicates that in any month, the energy delivered by Wind Power Projects above 100% PLF, if any, shall not be accounted for payment. Further, the petitioner stated that the Commission also asked the NEDCAP about their opinion on the issue, and in response they have opined that the apprehension of the wind developers on this is unfounded as the PLF of a wind generator would never exceed 100% PLF and accordingly, the clause can be retained as it is without any change. Commission, is therefore of the opinion that there is no harm in retaining the clause as it is. Hence no change is warranted in the revised standard PPA.

(vi) Whether certain additional undertakings of Discoms need to be inserted under clause 6.2 of the PPA: IWTMA suggested that the following undertakings of Discoms need to be inserted under clause 6.2 of the PPA:

(a) to off-take and purchase all the Electricity generated by the Company at the Delivery Point (b) to coordinate with APTRANSCO and assist the Company in obtaining approval for the interconnection facilities where the

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interconnection is at 66 KV or above voltages, for synchronization, Commercial Operation, regular operation etc., as required by the Company (c) to allow the Company to operate the Project as a must run generating station (d) to provide start up power required for the plant as and when necessary. The point wise response of the petitioner is as follows: (a) the proposed clause is similar to the existing clause at 6.2 (ii) which states that DISCOM agreed to purchase delivered energy from the project and as such incorporation of this clause will create duplication and may not be necessary (b) the proposed clause may be considered (c) as per APERC orders Wind projects are already considered as must run stations (d) Article 2.5 of PPA format already provides that Wind projects can avail start up power required for plant as and when necessary by paying necessary charges and as such incorporation of proposed clause will create duplication and may not be necessary. Commission having carefully examined the suggestion of IWTMA and the responses of the petitioner is of the view that all the points raised by IWTMA have been already covered by the PPA clauses already built in except for item (b) as above. Accordingly, it would be sufficient, if the revised standard PPA is modified by inserting the undertaking indicated at (b) above. Accordingly, Commission modifies the PPA format suitably.

(vii) Whether seeking approval of guidelines for power evacuation by the licensee has legal validity: InWEA pointed out that though the approval of

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PPA format is clearly stipulated in Section 86 (1) (b) of Electricity Act, 2003, there is no legal provision stipulating for seeking approval of guidelines for power evacuation by licensees. In response, the petitioner stated that Section 86 (1) (e) of Electricity Act 2003 stipulates that the Hon'ble Commission shall promote NRE projects by providing suitable measures for connectivity with the Grid. The petitioner stated that even though various State ERCs have announced measures for connectivity with Grid in respect of NRE projects in the light of the above mentioned provision, APERC had not specified measures in respect of NRE projects under Section 86 (1) (e) of the Act for connectivity with the Grid. The petitioner further stated that the Act has not prohibited the licensees from approaching the Hon'ble Commission seeking approval to measures for connectivity with the Grid in respect of NRE projects under Section 86 (1) (e) of the Act and accordingly, the licensees had filed the petition under Section 86 (1) (e) of the Act, along with other provisions of the Act, seeking approval to power evacuation guidelines for Wind Power Projects and as such, the Petition is not contrary to Section 86 (1) (e) of the Act. Further, the petitioner stated that the Petition filed by the petitioners provided a platform for participation by all concerned stakeholders in the proceedings and put forth their views before the Hon'ble Commission and as such, no prejudice is caused to the Respondent.

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The Commission has examined the contention of InWEA. An order on determination of tariff / power purchase price in respect of "New Wind based Power Projects" was issued on 01-05-2009. It is necessary to have an approved set of guidelines, format of PPA in furtherance of the order of 01-05-2009. NEDCAP has informed during the course of hearing that some of the developers are already coming forward to sign PPAs and commission the project before 31st March 2010, based on the PPA and guidelines finalized by the AP Transco and if the same are approved by the Commission, all the obstacles for investment in Wind sector would vanish. Further, IWTMA assured the Commission that investment would be forthcoming once PPA and guidelines are approved by the Commission. Commission does not want to come in the way of attracting investments in the State of A.P. Further, Commission has no hesitation in holding that approval of evacuation guidelines is squarely covered by the provision "promote co-generation and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid" as mentioned under section 86 (1) (e) of the Electricity Act 2003. For all the reasons mentioned above, the Commission considers that the contention of InWEA can not be accepted.

(viii) Whether the evacuation costs beyond metering point should be borne by STU: INWEA stated that as per the Electricity Act, the STU is required to plan and develop intra-state transmission for smooth flow of electricity

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from generating station to load centre. InWEA further stated that Forum of Regulators also had reported that grid connectivity for RE sources should be optimally provided by licensees through their CAPEX plans submitted to appropriate Commission for approval and that the Rajasthan ERC also had stipulated that transmission licensees are responsible for the development of the evacuation system beyond pooling substation till the nearest grid substation. InWEA finally stated that the draft PPA and guidelines should be suitably amended specifying that the licensees shall be responsible for development of system beyond the Interconnection Point (metering point). In response, the petitioner stated that Section 10 of the Electricity Act 2003 specified the duties of generating companies. Further, the petitioner stated that this section stipulated that it shall be the duty of the generating company to establish, operate and maintain generating stations, tie-lines, substations and dedicated transmission lines, connected therewith in accordance with the provisions of the Act or the rules or regulations made there under. The petitioner further stated that the evacuation line from the interconnection point (metering point) of the generating project to existing Grid will be a tie-line or dedicated transmission line for interfacing the generating project with the Grid and as such, as per the above provision of the Act, the Wind developers have to establish the evacuation line beyond the interconnection point (metering point) to the Grid. The petitioner also stated that the Hon'ble Commission in its orders dated 1.5.2009 in OP Nos.6 & 7 of 2009, adopted Wind Power

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Project cost as Rs.4.70 Crs/MW including evacuation cost and arrived at a tariff of Rs.3.43/unit, however, finally the Hon'ble Commission fixed tariff for wind power projects at Rs.3.50/unit in order to encourage this sector. Finally, the petitioner opined that in view of the above position, the developers shall have to bear the entire cost of evacuation for connecting Wind Projects to the Grid and delivery of power.

On this, the Commission is generally in agreement with the views of the petitioners namely 4 Discoms and AP Transco as narrated above. Further, it is also to be recalled that when GoAP issued its new Wind Policy cognizing the views of IWTMA vide G.O Ms.No.48, dt.11-04-2008 as amended by G.O Ms.No.99, dt.9.9.2008, it was clearly mentioned that the eligible developer shall bear the entire cost of power evacuation facilities for interconnecting the wind firm with the Grid and delivery of power. It is thus clear that the wind developers are in agreement with the above provision of the policy as it relates to evacuation cost. The cost of evacuation by the developer was taken into consideration in arriving at Rs.3.43 / unit. The tariff of Rs.3.50 / unit was finally determined to encourage generation of wind power in the state of AP, thus providing additional 7 paise per unit. Further, it may be noted that, it is only the InWEA that is raising this issue and IWTMA did not raise this issue at all, implying that the above provision on evacuation cost are workable. That apart, the touchstone on which the effectiveness of any policy can be

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tested is whether it is able to attract any investment or not. In this case, both based on policy announced by the GoAP and based on the orders passed by the Commission on 01-05-2009, and based on PPA and evacuation guidelines proposed by the AP Discoms/AP Transco, 16 number of PPAs totaling to a capacity of 16.8 MWs have been signed and submitted to the Commission seeking consent, precisely in the same format of PPA and based on the guidelines now sought to be approved. This is a proof positive that investments are forthcoming based on the existing Policy / Order / PPA / Evacuation Guidelines. That being the case, the Commission feels that the issues raised by InWEA are only hypothetical in nature at least in AP situation based on the current level of network expansion and guidelines submitted by the petitioner and hence, they do not warrant any changes in the guidelines on evacuation or PPA format.

(ix) Whether differential treatment for Cluster and Individual projects can be allowed: InWEA stated that the proposed guidelines and the draft PPA proposed interconnection point for cluster of wind farms as EHV side of pooling substation. However, in respect of wind projects developed as individual projects, it is proposed at APTRANSCO/DISCOM substation. InWEA opined that this is discriminatory and that the CERC also has not provided any differential treatment for wind projects under cluster scheme and individual projects and as such, PPA and guidelines should be suitably amended specifying that metering point shall be online isolator on outgoing

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feeder on HV side at pooling substation for all wind projects. In response, the petitioner stated that the CERC regulation has not mentioned the interconnection point for Wind Power projects coming up at specific location as an individual project without having a Pooling substation and hence reference to CERC Regulation is irrelevant. The petitioner further stated that as per the existing procedure, Wind power projects and other NRE projects coming up as independent projects at specific locations have to be interfaced to the nearest substation with dedicated line and metering shall be provided at substation. The petitioner also stated that very less capacity of Wind Power Projects will come up as individual projects and these projects can directly feed power to the existing grid substations through dedicated feeders without constructing another pooling substation. As such, metering for these projects is proposed as per the existing norms approved by the Hon'ble Commission for individual NRE projects and the same may be approved. On this, NEDCAP also stated that in AP, plants are coming as clusters and not as individual projects. The Commission having considered the above views feels that since individual projects are unlikely to come in AP, no changes are warranted to the either guidelines or PPA as submitted by the petitioner.

(x) Whether deemed generation clause needs to be incorporated into the PPA: InWEA stated that necessary clauses of remedy (to provide compensation for deemed generation) should be incorporated in PPA

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against default by APTRANSCO / DISCOM in timely completion of evacuation scheme and breakdown or outages of evacuation infrastructure. response, the petitioner stated that the evacuation guidelines and draft PPA clearly specified that the Wind developers can also carryout evacuation infrastructure development by paying supervision charges. The petitioner further stated that the draft PPA format at Article 6.2 provides that DISCOM shall make arrangements for evacuation of power prior to COD. Article 4.19 also provides that DISCOM shall use all reasonable efforts to rectify system emergency circumstances causing reduction in generation as soon as possible. Further, the petitioner also stated that the Wind Projects are must run stations and DISCOMs have to purchase energy as and when generated by these projects and deemed Generation clause is associated only where generator has to give availability declaration and subjected to scheduling and dispatch and compensation/ penalty is leviable on generators, in case of default. The Commission having considered the views of all the parties, and duly examining the provisions of the PPA at Article 4.19 and 6.2, and also recognizing that the option of carrying out infrastructure development is also available to the wind developer, and further having come to an understanding that there is no motivation for Discoms not to off-take renewable power, in view of the Renewable Power Purchase obligation (RPPO), cast upon the Discoms, obligating to buy a minimum of 5% of their purchases, is of the view that the existing provision of the PPA, which were also evolved in consultation with NEDCAP and

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prospective wind developers, is in order and accordingly no changes are warranted on this account in the PPA format.

7. The Commission having examined the key issues in para '6' supra hereby approves the Guidelines on Power Evacuation from Wind Power Projects in Andhra Pradesh (Annexure-1) and PPA format (Annexure-2) as annexed to this order duly incorporating the changes as approved in the preceding paragraphs of this order and certain other changes to add clarity. From now on the parties to the agreement should execute the agreement as per the Commission's approved PPA.

8. The Commission hopes that the final guidelines and standard PPA will make sure that Andhra Pradesh will see some major capacity addition from wind in the coming years.

This order is signed by the Andhra Pradesh Electricity Regulatory

Commission on this 30th day of March 2010.

Sd/-C.R.Sekhar Reddy Member

Sd/-R.Radhakishen, Member

Sd/-A.Raghotham Rao, Chairman

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ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION 4th & 5th Floors, Singareni Bhavan, Red Hills, Hyderabad-500 004

O.P No.7 of 2012

Dated: 11-07-2012

Present

Sri A.Raghotham Rao, Chairman Sri C.R.Sekhar Reddy, Member Sri R.Ashoka Chary, Member

In the matter of

Indian Wind Energy Association (InWEA)
Having its registered office at
PHD House, 3rd Floor, Asian Games Village,
August Kranti Marg, New Delhi – 110 016.
Rep. by its Secretary.

.... Petitioner

AND

Transmission Corporation of Andhra Pradesh Ltd (APTRANSCO)
Vidyut Soudha, Khairathabad, Hyderabad. Respondent

This petition coming up for hearing on several dates including on 21.05.2012, in the presence of Sri Arijit Maitra, Advocate, Sri Ajit Pandit, for the petitioner and Sri P.Shiva Rao, and Sri G.Brahmananda Rao, Advocates for the respondent and having stood over for consideration to this day, the Commission delivered the following:

ORDER

This petition is filed by the petitioner seeking modification of the guidelines in the order dated 30.03.2010, for evacuation of power from Wind Power Projects in Andhra Pradesh in line with Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electrical Lines) Regulation 2010, in pursuance of Regulations 6 (4) and Regulations 49 of APERC (Conduct of Business) Regulations, 1999 and APERC (Conduct of Business) Amendment Regulations, 2000 and Section 94 (1) (f) of Electricity Act, 2003.

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- 1. In the said petition it is mentioned by the petitioner association that:
 - i) This Commission issued order dated 30.03.2010 approving guidelines for evacuation of power from wind energy projects and standard format for PPA. However, the Commission has not allowed choice to the developer to select size, type loading of the conductor at 33 kV.
 - ii) The said order of the Commission did not specify any control period or limitation period for applicability thereby implying that condition mentioned in the said order continue to be applicable till modified or amended. In view of the above, the respondent is imposing the restrictive conditions for limiting wind energy evacuation upto 10 MW that 33 kV and for evacuation of capacity in excess of 10 MW at higher system voltages at 132 kV.
 - iii) Recently CEA issued Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electrical Lines) Regulation 2010 which has been notified on August 20, 2010. The said Regulation covers the type of conductors to be used for transmission and distribution lines. Considering the mandate given to CEA, it would be necessary that norms in the State of AP should also be in conformity with the norms issued by CEA for development the grid and standardization.
 - iv) In support of its claim for modification of the guidelines issued by APERC in its order dated 30.03.2010, the petitioner mentioned various grounds in its petition and also mentioned evacuation system arrangements in other States.
- 2. The said petition was returned informing the petitioner to explain as to how the petition is maintainable. On 19.08.2011 the petitioner filed written submissions, wherein it is stated that:
 - a) The State Commission shall discharge under Section 86 (1) the following functions, namely:-

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- b) Providing flexibility of choice of conductor enabling Wind Energy Generators to evacuate more power at 33 kV from the same line consequently resulting in optimum utilization of Electric lines as well as curtailment of extra cost for the wind generators are suitable measures for connectivity with the grid that the Commission is mandated to provide under Section 86 (1) (e) of the 2003 Act.
- c) It is technically feasible to evacuate higher capacity in terms of MW using conductors which allow higher line loading in Amp, rather than restricting it to 10 MW. For example with conductor such as ACSR Panther or AAAC Panther allows wind energy generators to easily inject 15 to 25 MW power at 33 kV.
- d) The Commission can sustain the change in policy where it would have properly balanced the legitimate expectation of the wind energy generators as against the need for a change.
- e) The Central Electricity Authority (CEA) is required to notify Regulations under Section 73 (b) read with Section 177 (2) (e) specifying the technical standards for construction of electrical plants electric lines and connectivity to the grid.
- f) Accordingly, the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010 (hereinafter referred to as "CEA Regulations 2010") came to be notified. There is no reason why CEA Regulations 2010 should not be binding. In sharp contrast, the discretion under Section 61 (a) to "be guided by" the principles and methodologies specified by the Central Commission for determination of the tariff is not present in regard to CEA Regulations 2010.
- g) As far as the petitioner is aware, to date, no change has been made by the Parliament to the CEA Regulations 2010.
- h) The CEA Regulations 2010 have binding force, as they are statutory in nature. It is delegated legislation enacted under the powers

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- conferred upon CEA by the primary legislation i.e., under Section 73 (b) read with Section 177 (2) (e) of the 2003 Act.
- i) The Hon'ble Supreme Court has held in its judgment dated March 15, 2010 in PTC India Ltd Vs. CERC [reported in AIR 2010 SC 1338] that a Regulation stands on a higher pedestal vis-à-vis an order (decision) in the sense that an order has to be in conformity with the regulations.
- j) The Commission's order dated 30.03.2010 is required to be aligned to the CEA Regulations, 2010.
- k) The validity of the CEA Regulations, 2010 cannot be tested in any proceedings before this Commission.
- This Commission is empowered in law to review its order dated 30.03.2010 in terms of Section 94 (1) (f) of the 2003 Act read with Regulation 49 if the APERC (Conduct of Business) Regulations, 1999 (hereinafter referred to as the "Conduct of Business").
- m) The CEA Regulations 2010 were notified on 20th August, 2010. Thus, the requirement to review this Commission's order dated 30.03.2010, arises much after the limitation period of 90 days specified under Regulation 49 of the Conduct of Business, in any case. However, an issue would arise as to whether this Commission would allow its said order dated 30.03.2010 to continue particularly when it is apparent on the fact of records that the said order is contrary to the CEA Regulations, 2010.
- n) There has been a change in law subsequent to the notification of the CEA Regulations, 2010 which necessitate the review of this Commission's order dated 30.03.2010.
- The primary concern of this Commission is to implement the justice of the legislation contained in the CEA Regulations, 2010.
- p) The time of 90 days specified under Regulation 49 of the Conduct of Business, to file review petition can be extended under Regulation 59 thereof.
- q) Even under Section 5 of the Limitation Act, an application may be admitted after the prescribed period if the applicant satisfies the

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- Court that he had sufficient cause for not making the application within such period.
- r) The following Regulations sufficiently empower this Commission to admit the present petition and to review or modify its aforesaid order dated 30.03.2010 even though the limitation period for filing review may have expired.
 - 55. Saving of inherent power of the Commission.
 - (1) Nothing in these Regulations shall be deemed to limit or otherwise affect the inherent power of the Commission to make such orders as may be necessary for meetings the ends of justice or prevent the abuse of the process of the Commission.
 - (2) Nothing in these Regulations shall bar the Commission from adopting a procedure, which is at variance with any of the provisions of 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.
 - (3) Nothing in these Regulations shall, expressly or impliedly, bar the Commission to deal with any matter or exercise any power under the Act for which no Regulations have been framed, and the Commission may deal with such matters, powers and functions in a manner it thinks fit.
- s) In support of its contention raised in the petition, the petitioner relied upon a ruling reported in 2010 SCC (1338) by the Hon'ble Supreme Court of India.
- 3. Upon hearing the counsel for the petitioner on 24.08.2011, Commission decided to take the petition on to its file vide its order dated 06.01.2012.
- 4. Notice was issued to the respondents and on 21.05.2012 a 'reply' was filed on behalf of the respondent, inter-alia stating that
- a) Approval of evacuation guidelines is covered by the provision mentioned u/s 86 (1) (e) of Electricity Act, 2003. Hence, the said order shall be applicable till modified or amended. The Commission approved the limit of 10 MW duly considering the less load availability in DISCOMs.

For Pujaa Shree Green Renewable Energy Won Privata Limited

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- b) As per the directions of Commission, a meeting was conducted on 16.05.2012 between the representatives of the petitioner as well as the respondent herein on power evacuation issues and it is jointly decided that:
 - (i) The developer shall have the discretion in choosing the conductor for connecting wind generator to the pooling substation of the developer subject to the CEIG approval.
 - (ii) The developer is allowed to inject a maximum of 10 MW from pooling substation of the wind generator to the existing 33 / 11 kV DISCOM substation.
 - (iii) The developers connecting at 33 kV level to the EHT SS, the maximum injection is limited upto 25 MW in case of single conductor 33 kV Bus and up to 40 MW in case of double conductor 33 kV Bus, subject to transformation capacity. Injection of power may be in one or more circuits depending up on availability of bays in that substation and loading per circuit not exceeding 25 MW.
 - (iv) Injection of power by wind developer from pooling substation to EHT substation at EHT level may be as per system studies.
- c) In the order dated 30.03.2010 it is approved by the Commission, that the limit of power to be transferred at specific voltage level is characterized by current carrying capacity of the conductor and voltage regulation and as such, there was requirement to specify the permissible capacity on specific conductor at specific voltage. During the meeting with the petitioner, it is agreed to allow choice of selecting the conductor upto the pooling substation to be left to the discretion of developer.
- d) The wind power projects are having low capacity utilization factor. As such , the licensees have proposed higher norms for wind power capacity flow at 33 kV level connecting to HTSS higher than the norms stipulated in the earlier orders.
- e) Commission may take appropriate decision for modification of amendments in the existing guidelines.
- f) In order to harness the available wind potential helpful in meeting the RPPO, it was jointly agreed to modify the existing guidelines with respect to conductor type and permissible capacity as mentioned at para 2 (b) supra.
- g) Commission may pass appropriate orders formulating the normative parameters and its values.

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- On 21.05.2012 Secretary General of the petitioner association filed an 5. affidavit mentioning the meeting conducted by the representatives of the respondent with those of the petitioner and requested the Commission to review and modify its order dated 30.03.2010 and (i) to allow discretion to wind energy developers and choosing the conductor for connecting wind generator to the Pooling sub-station of the developer subject to CEIG approval (ii) to allow the wind energy developers to inject the maximum of 10 MW from pooling substation of the wind generator to the existing 33 / 11 kV DISCOM sub-station (iii) to provide that the developers connecting at 33 kV level to the EHT SS, the maximum injection be limited upto 25 MW in case of single conductor, 33 kV Bus and upto 40 MW in case of double conductor, 33 kV Bus, subject to transformation capacity and that injection of power may be in one or more circuits depending upon availability of bays in that sub-station and loading per circuit not exceeding 25 MW (iv) to provide that injection of power by wind developer from pooling sub-station to EHT sub-station at EHT level may be as per system studies.
- Heard the counsel for the parties concerned.
- 7. The petitioner filed the above said petition for placing on record minutes of meeting held on 16th May, 2012 as follows:
- a) The Commission during the hearing held on 23rd April, 2012 and further during the hearing held on 14th May, 2012, graciously indicated to the petitioner and the respondents to hold meeting and discuss the impending modifications to this to this Commission's order dated 30th March, 2010 for allowing Wind Energy Generators to exercise their choice of installing conductors inline with the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010.
- b) Based on the above, Counsel appearing for Andhra Pradesh Distribution Company Ltd., during the hearing on 14th May, 2012 undertook to withdraw the reply dated 3rd May, 2012 filed by the said respondent in order to give effect to and comply with the aforesaid oral directions of this Commission.

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- c) Pursuant to the above, a meeting was organized on 16th May, 2012 by APTRANSCO in a Technical Committee comprising of Director (Grid Operation / APTRANSCO, Director (Transmission) / APTRANSCO, Director (Projects) / APTRANSCO, JMD (Distribution) / APTRANSCO, member from APPCC-JMD (HRD, Comml, IPC & IT) / APTRANSCO and representatives for the petitioner Indian Wind Energy Association. The following were agreed in the aforesaid meeting:
 - i) The developer shall have the discretion in choosing the conductor for connecting wind generator to the pooling substation of the developer subject to the CEIG approval.
 - ii) The developer is allowed to inject a maximum of 10 MW from pooling substation of the wind generator to the existing 33 / 11 kV DISCOM substation.
 - iii) The developers connecting at 33 kV level to the EHT SS, the maximum injection is limited upto 25 MW in case of single conductor 33 kV Bus and upto 40 MW in case of double conductor 33 kV Bus, subject to transformation capacity. Injection of power may be in one or more circuits depending upon availability of bays in that substation and loading per circuit not exceeding 25 MW.
 - iv) Injection of power by wind developer from pooling substation to EHT substation at EHT level may be as per system studies.

A copy of the aforesaid Minutes of Meeting duly signed by the all the aforesaid constituents of the Technical Committee is filed.

- 8. The petitioner has prayed that the Commission may
- a) be pleased to review and modify its order dated 20th March, 2010 to allow discretion to the Wind Energy Developers in choosing the conductor for connecting Wind Generator to the pooling substation of the developer subject CEIG approval.
- b) be pleased to review and modify its order dated 30th March, 2010 to allow the Wind Energy Developers to inject the maximum of 10 MW from Pooling Sub-Station of the Wind Generator to the existing 33 / 11 kV DISCOM Sub-Station.

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- c) be pleased to review and modify its order dated 30th March, 2010 to provide that the developers connecting at 33 kV level to the EHT SS, the maximum injection be limited upto 25 MW in case of single conductor, 33 kV Bus and upto 40 MW in case of double conductor, 33 kV Bus, subject to transformation capacity and that injection of power may be in one or more circuits depending upon availability of bays in that Sub-station and loading per circuit not exceeding 25 MW;
- d) be pleased to review and modify its order dated 30th March, 2010, to provide that injection of power by Wind Developer from pooling Sub-station to EHT Sub-station at EHT level may be as per system studies;
- e) be pleased to pass any other order as may be just and necessary in the facts and circumstances of the present case.
- 9. Now the point for consideration is, whether the petitioner is entitled to seek a review of the order of the Commission dated 20.03.2010? If so in what manner?
- 10. The respondent has submitted a Memo withdrawing the reply filed by the respondent on 16.05.2012 by stating that they will file the same after negotiations by modifying the same, if necessary.
- 11. The respondent has not filed any reply of modifications but the petitioner has filed an affidavit narrating the negotiations and conclusions arrived at by the Committee as per the directions of the Commission. The minutes of meeting held on 16.05.2012 have been accepted and signed by both the sides viz., the representatives of APTRANSCO as well as the InWEA.
- 12. In view of the above circumstances, the Commission hereby reviews the order dt.30.03.2010 and in partial modification of the guidelines contained therein, hereby orders that:
 - i) The developer shall have the discretion in choosing the conductor for connecting wind generator to the pooling substation of the developer subject to the CEIG approval.

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For Pujae Shres Green Renewable Energy Won Private Limited

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- ii) The developer is allowed to inject a maximum of 10 MW from pooling substation of the wind generator to the existing 33 / 11 kV DISCOM substation.
- iii) The developers connecting at 33 kV level to the EHT SS, the maximum injection is limited upto 25 MW in case of single conductor 33 kV Bus and upto 40 MW in case of double conductor 33 kV Bus, subject to transformation capacity. Injection of power may be in one or more circuits depending upon availability of bays in that substation and loading per circuit not exceeding 25 MW.
- iv) Injection of power by wind developer from pooling substation to EHT substation at EHT level may be as per system studies.
- 13. Hence, this petition is ordered accordingly.

The order is signed on this 11th day of July, 2012.

Sd/-(R.ASHOKA CHARY) MEMBER

Sd/-(C.R.SEKHAR REDDY) MEMBER

Sd/-(A.RAGHOTHAM RAO) CHAIRMAN

For Pujaa Shree Green Renewable Energy Won Private Limited

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ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

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Commission Secretary, APERC, Abox, 50 Floors, # 11-4 Bott, Singareni Bhayan, Red Hilla, Lakdi ka-pul, Uyderabad 500 004.

The Chairman & Managing Director, APCPDCL, 6-1-50, 5th floor, Corporate Office, Mint Compound, Hyderabad 500 004.

Lt. No.APERC/Sccy/Dir(Engg)/DD(Trans)/E:625,14/2014-1 Dt.04,06.2014

Su,

Sub: APERC - Guidelines on power evacuation from Wind Power Projects - Clarifications - Issued.

Ref:- 1) Lr.No.CGM(Comml & RAC)/SE/IPC/F:D.No.79/14 Dt 11.04.2014

2) APERC Order dated 30.03.2010 in O.P. No.40 of 2010

3) APERC Order dated 11.07.2012 in O.P. No.7 of 2012

In the letter 1st cited, APCPDCL has requested the Commission to insue necessary clarifications with regard to quantum of power to be evacuated on each size of the conductor (viz., 55 Sqmm, 100 Sqmm, 150 Sqmm, Panther, etc.) at 33 kV voltage level, as given in Annexure-I of the APERC Order dated 30.03.2010 in O.P. No.40 of 2010.

After careful examination of the issue, in the partial modification of guidelines order issued in O.P. No.7 of 2012 the Commission grants discretion to the developer for choosing the conductor for connecting wind generator to the pooling substation of the developer, subject to the CEIG approval. No further clarifications on conductor size in this connection are required.

Further, it is clarified that the term "per circuit" mentioned at paragraph 12(iii) of the order dated 11.07.2012 in O.P. No.7 of 2012 can be interpreted as "per feeder".

This is issued with the concurrence of the Commission.

Yours faithfully,

Commission Secretary

Copy to:

The Chairman & Managing Director, APTransco, Vidyut Soudha, Hyderabad -82.

PS to the Chairman/APERC

PS to the Member (A)/APERC

PS to the Member (R)/APERC

For Pujaa Shree Green Renewable Energy Won Private Limited

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PART-II EXTRAORDINARY PUBLISHED BY AUTHORITY

No. 56]

HYDERABAD, FRIDAY, JULY 31, 2015.

NOTIFICATIONS BY HEADS OF DEPARTMENTS, Etc.

ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

Terms and Conditions for Tariff Determination for Wind Power Projects in the State of Andhra Pradesh for the period FY2015-16 to FY2019-20

Regulation No. 01 / 2015

In exercise of the powers conferred by Sections 61 and 86 read with Section 181 of the Electricity Act, 2003 (Central Act 36 of 2003), and all other powers enabling it in this behalf and after previous publication, the Andhra Pradesh Electricity Regulatory Commission hereby makes the following regulations, namely:

1. Short title and commencement:

- (1) These regulations may be called the Andhra Pradesh Electricity Regulatory Commission (Terms and Conditions for Tariff determination for Wind Power Projects) Regulations, 2015.
- (2) These regulations shall come into force from the date of their publication in the official Gazette and, unless reviewed earlier or extended by the Commission, shall remain in force up to 31st March, 2020.

2. Definitions and Interpretation:

- (1) In these regulations, unless the context otherwise requires,-
 - (a) 'Act' means the Electricity Act, 2003 (Central Act 36 of 2003);
 - (b) 'Capital cost' means the capital cost as defined in Regulation 10;
 - (c) 'CERC' means the Central Electricity Regulatory Commission;
 - (d) 'CERC RE Tariff Regulations' means Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012, as amended from time to time.
 - (e) 'Commission' means the Andhra Pradesh Electricity Regulatory Commission;
 - (f) 'Control Period' means the period during which the norms for determination of tariff specified in these regulations shall remain valid;

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- (g) 'Inter-connection Point' means the line isolator on outgoing feeder on HV side of the pooling sub-station i.e., the sub-station at project site of wind farm which consists of step-up transformer(s) and associated switchgear and to the LV side of which, multiple generating unit(s) i.e., wind turbine generators are connected;
- (h) 'MAT' means Minimum Alternate Tax;
- (i) 'MNRE' means the Ministry of New and Renewable Energy, Government of India;
- (j) 'Non-Conventional Energy' means the grid quality electricity generated from non-conventional energy sources;
- (k) 'Non-Conventional Energy Power Plants' means the power plants other than the conventional power plants generating grid quality electricity from non-conventional energy sources;
- (I) 'Non-Conventional Energy Sources' means non-conventional sources such as mini hydel, wind, biomass, bagasse, industrial waste, urban or municipal waste and other such sources as approved by the MNRE;
- (m) 'Operation and Maintenance expenses' or 'O&M expenses' means the expenditure incurred on operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, repairs, spares, consumables, insurance and overheads;
- (n) 'Project' means a generating station or the evacuation system;
- (o) 'Tariff period' means the period for which tariff is to be determined by the Commission on the basis of norms specified in these Regulations;
- (p) 'Useful Life' in relation to a wind power project means Twenty Five years from the date of commercial operation (COD);
- (q) 'Year' means a financial year.

(2) Save as aforesaid and unless repugnant to the context or the subject-matter otherwise requires, words and expressions used in these regulations but not defined herein and defined in the Act or the Andhra Pradesh Electricity Reform Act, 1998 (State Act 30 of 1998) or the Rules or Regulations made thereunder shall have the meanings assigned to them respectively therein.

3. Scope and extent of application:

These Regulations shall apply to the wind power projects to be commissioned within the State of Andhra Pradesh for generation and sale of electricity wholly or partly to the Distribution licensees within State of Andhra Pradesh subsequent to the date of notification of these Regulations and where tariff for a generating station or a unit thereof based on wind energy source, is to be determined by the Commission under section 62 read with section 86 of the Act.

Chapter 1: General Principles

4. Control Period:

The Control Period under these Regulations ends by 31st March, 2020. First year of the Control Period shall commence from the date of notification of these Regulations and shall cover upto the end of the financial year 2015-16:

Provided that the tariff determined as per these Regulations for the wind power projects commissioned during the Control Period, shall continue to be applicable for the entire duration of the Tariff Period as specified in Regulation 5 below.

5. Tariff Period:

(a) The Tariff Period for wind power projects shall be equal to the useful life of the projects as defined under Regulation 2 (p).

For Pujaa Shree Green Ranewable Energy Won Private Limited

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Tariff period under these Regulations shall be considered from the date of commercial operation of the wind power projects.

6. Proceedings for determination of Tariff:

The Commission shall notify the generic preferential tariff on suo-motu basis at the beginning of each year of the Tariff Period for wind power projects for which norms have been specified under these

Provided further that for FY2015-16, the generic preferential tariff on suo-motu basis, shall be notified soon after the publication of the regulations in the official gazette to be applicable with effect from the date of these regulations coming into force.

7. Tariff Structure:

The tariff for wind power projects shall be single part tariff consisting of the following cost components:

- (a) Return on equity;
- (b) Interest on loan capital;
- (c) Depreciation:
- (d) Interest on working capital;
- (e) Operation and Maintenance expenses;

8. Levellized Tariff:

Levellized Tariff is calculated by carrying out levellization for 'useful life' considering the discount factor for time value of money.

The discount factor considered for this purpose is equal to the weighted average cost of capital on the basis of normative debt-equity ratio (70:30) specified under Regulation 11. Considering the normative debt-equity ratio and weighted average of the rates of interest and post tax return on equity, the discount factor is calculated. Interest rate for the loan component (i.e.70%) of Capital Cost is considered as explained under Regulation 12. For equity component (i.e. 30%), post tax Return on Equity (ROE) of 16% is considered as explained in Regulation 14.

9. Despatch principles for electricity generated from Wind Power Projects:

All Wind Power Projects shall be treated as 'MUST RUN' power plants and shall not be subjected to 'Merit Order Despatch principles' (MOD):

Provided that where the sum of generation capacity of the plants connected at the interconnection point to the transmission or distribution system is 10 MW and above and interconnection point is 33 kV and above, such Wind Power Generation Plants shall be subjected to scheduling and despatch code as specified in Indian Electricity Grid Code (IEGC) - 2010 and/or A.P. State Electricity Grid Code (APSEGC)

Chapter 2: Financial Principles

10. Capital Cost and Capital Cost Indexation Mechanism:

The norms for the Capital cost shall be generally inclusive of all capital work including plant and machinery, civil work, erection and commissioning, financing and interest during construction (IDC) and

The capital cost for FY2015-16 shall be '600 lakhs / MW.

The capital cost indexation mechanism as prescribed in the CERC RE Tariff Regulations, 2012 shall be considered as indicated below for arriving at the capital cost of the wind power projects for each year of the Control Period beyond FY2015-16, which shall be notified at the beginning of each financial year.

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The following indexation mechanism shall be applicable for adjustments in capital cost over the control period beyond FY2015-16 with the changes in Wholesale Price Index for Steel and Electrical Machinery.

$$CC_{(n)} = P&M_{(n)}^* (1+F1+F2+F3)$$

$$P&M_{(n)} = P&M_{(0)} * (1+d_{(n)})$$

$$d_{(n)} = [a^*\{(SI_{(n+1)}/SI_{(0)}) - 1\} + b^*\{(EI_{(n+1)}/EI_{(0)}) - 1\}]/(a+b)$$

Where,

CC (n) = Capital Cost for nth year

P&M_(n) = Plant and Machinery Cost for nth year

P&M₍₀₎ = Plant and Machinery Cost for the base year

Note: $P\&M_{(0)}$ is to be computed by dividing the base capital cost (for the first year of the control period i.e., FY2015-16) by (1+F1+F2+F3)

 $d_{(n)}$ = Capital Cost escalation factor for year (n) of control period

 $SI_{(n-1)}$ = Average WPI Steel Index prevalent for calendar year ending in (n-1) financial year of the control period

 $SI_{(0)}$ = Average WPI Steel Index prevalent for the calendar year ending in financial year (0) at the beginning of the control period i.e, January 2014 to December, 2014

El_(n-1) = Average WPI Electrical Machinery Index prevalent for calendar year ending in (n-1) financial year of the control period

El₍₀₎ = Average WPI Electrical and Machinery Index prevalent for the calendar year ending in financial year (0) at the beginning of the control period i.e., January 2014 to December, 2014

a = Constant to be determined by Commission from time to time, for weightage to Steel Index

b = Constant to be determined by Commission from time to time, for weightage to Electrical Machinery Index

F1 = Factor for Land and Civil Work

F2 = Factor for Erection and Commissioning

F3 = Factor for IDC and Financing Cost

The constants 'a' and 'b' and factors 'F1', 'F2' and 'F3' are specified and these would be determined by the Commission from time to time.

11. Debt Equity Ratio:

The debt equity ratio shall be 70:30.

12. Loan and Finance Charges:

- (1) Loan Tenure: For the purpose of determination of tariff, loan tenure of Ten years shall be considered.
- (2) Interest Rate:
 - (a) The loans arrived at in the manner indicated in the Regulation 11 shall be considered as gross normative loan for calculation of interest on loan. The normative loan outstanding as on April 1st of every year shall be worked out by deducting the cumulative repayment up to March 31st of previous year from the gross normative loan.
- (b) For the purpose of computation of tariff, the normative interest rate shall be considered as average State Bank of India (SBI) Base rate prevalent during the first six months of the previous year plus 300 basis points.

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Notwithstanding any moratorium period availed by the generating company, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the annual depreciation allowed.

13. Depreciation:

- (1) The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission. The Salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the Capital Cost of the asset.
- (2) Depreciation per annum shall be based on 'Differential Depreciation Approach' using 'straight line' method over two distinct periods comprising loan tenure and period beyond loan tenure over the useful life. The depreciation rate for the first ten years of the Tariff Period shall be 7% per annum and 1.33% for the remaining useful life of the project from 11th year onwards.
- (3) Depreciation shall be chargeable from the first year of commercial operation.

14. Return on Equity:

- (1) The value base for the equity shall be 30% of the capital cost as determined under Regulation 11.
- (2) The normative Return on Equity shall be 16% with MAT/income tax as pass through.

15. Interest on Working Capital:

- (1) The Working Capital requirement shall be computed as follows:
 - (a) Operation and Maintenance expenses for one month,
- Receivables equivalent to 2 (two) months of energy charges for sale of electricity calculated on the normative Capacity Utilisation Factor (CUF),
- (c) Maintenance of spares at 15% of Operation and Maintenance expenses.
- (2) Interest on Working Capital shall be computed at the interest rate equivalent to the average State Bank of India Base Rate prevalent during the first six months of the previous year plus 350 basis points.

16. Operation and Maintenance Expenses:

- 'Operation and Maintenance expenses' shall comprise repair and maintenance (R&M), establishment including employee expenses, and administrative and general expenses including
- Operation and maintenance expenses for the first year of the control period shall be '8.57
- (3) Normative O&M expenses allowed during first year of these Regulations (i.e. FY 15-16) shall be escalated at the rate of 5.72% per annum over balance of the control period.

17. Rebate:

- (1) For payment of bills of the generating company through letter of credit, a rebate of 2% shall be
- (2) Where payments are made other than through letter of credit within a period of one month of presentation of bills by the generating company, a rebate of 1% shall be allowed.

18. Sharing of Clean Development Mechanism (CDM) benefits:

The proceeds of carbon credit from approved CDM project shall be shared between generating company and concerned beneficiaries in the following manner, namely-

For Pujaa Shree Orean Renewable Energy Won Private Limited

- (a) 100% of the gross proceeds on account of CDM benefit is to be retained by the project developer in the first year after the date of commercial operation of the generating station;
- (b) In the second year, the share of the beneficiaries shall be 10% which shall be progressively increased by 10% every year till it reaches 50%, whereafter the proceeds shall be shared in equal proportion, by the generating company and the beneficiaries.

19. Taxes and Duties:

- (a) Tariff determined under these regulations shall be exclusive of taxes and duties as may be levied by the Government:
 - Provided that the taxes and duties levied by the Government shall be allowed as pass through on actually incurred basis.
- (b) Income tax/MAT is a pass through and is to be paid by the Distribution Licensees to the developer upon receipt of the claim from the developer. This is over and above the tariff determination made herein.
- (c) Electricity Duty is a pass through and is to be paid by the Distribution Licensees to the developer upon receipt of the claim from the developer. This is over and above the tariff determination made herein.

20. Subsidy or incentive by the Government:

The Commission shall take into consideration any incentive or subsidy offered by the Central or State Government, including accelerated depreciation (AD) benefit, if availed by the generating company, for the Wind Power Projects while determining the tariff under these Regulations.

Provided that the following principles shall be considered for ascertaining income tax benefit on account of accelerated depreciation, if availed, for the purpose of tariff determination:

- (a) Assessment of benefit shall be based on normative capital cost, accelerated depreciation, rate as per relevant provisions under the Income Tax Act and Corporate Income Tax Rate.
- (b) Capitalization of Wind Power Projects during second half of the fiscal year. Per unit levellized accelerated depreciation benefit has to be computed considering the post-tax weighted average cost of capital as discount factor (as explained in Regulation 8).

Chapter 3: Technology specific parameters for Wind Power Projects

21. Capacity Utilization Factor:

The Capacity Utilization Factor (CUF) for the control period shall be 23.5%.

Chapter 4: Miscellaneous

22. Deviation from Norms:

Tariff for sale of electricity by the Wind Power Project may also be determined in deviation from the norms specified in these Regulations subject to the condition that the levallized tariff over the useful life of the project on the basis of the norms in deviation does not exceed the levallized tariff calculated on the basis of the norms specified in these Regulations:

Provided that the reasons for deviation from the norms specified under these Regulations shall be recorded in writing.

23. Power to Relax:

The Commission may, by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected, relax any of the providing so these Regulations on its own motion or on an application made before it by an interested in them.

For Pujaa Shree Green Renewable Energy Won Priva & Limited

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24. Issue of Orders and Practice Directions:

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

25. Power to Amend:

The Commission may, at any time, vary, alter, modify or amend any provisions of these Regulations.

26. Power to Remove Difficulties:

If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may, by general or specific order, make such provisions not inconsistent with the provisions of the Act, as may appear to be necessary for removing the difficulty.

27. OTHERS

- (i) Evacuation Guidelines: The Evacuation Guidelines / practice directions issued by the Commission from time to time shall be applicable for all the wind power projects established since these regulations coming into force.
- (ii) Model PPAs: The model Power Purchase Agreements earlier approved by the Commission shall be applicable to all the wind power projects established since these regulations coming into force also to the extent they are in consonance with these regulations.

Dr. A. SRINIVAS, Commission Secretary (1/c).

Hyderabad, 31-07-2015

Printed and Published by the Commissioner of Printing, Govt. of Andhra Pradesh, at Govt. Regional Press, Kurool.

For Pujaa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGER

APSPDCL :: TIRUPATI



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SLNo 19856 Date 30-09-2016, Rs.100/-Name, CILKARUNAKAR, S/O. LATE RAMUI U, R/O.HYD. FOR WHOM: AXIS ENERGY VENTURES INDIA PVT. LTD. 112154

KONDA KAVITHA Licenced Strinp Vendor SVL No: 16-04 06/2016 II.No. 8-2-460/64, Road No.4 Sukdev Nagar, Banjara Hills, Hyderabad

PROJECT-IMPLEMENTATION-AGREEMENT

THIS AGREEMENT ("Agreement") is executed on the 03rd day of the month of October, 2016

ANDHRA PRADESH SOUTHERN POWER DISTRIBUTION COMPANY LIMITED, a company duly incorporated under the Companies Act 1956, having its registered office at D.No:19-13-65/A, Srinivasapuram, Tiruchanoor Road, Tirupati - 517503, Chittoor District, Andhra Pradesh, India represented by its authorised signatory, The Chief General Manager/P&MM&IPC (hereinafter referred to as "APSPDCL", which term shall mean and include its successors in interest, group companies, associates and assigns);

AND

ANDHRA PRADESH EASTERN POWER DISTRIBUTION COMPANY LIMITED, a company duly incorporated under the Companies Act 1956, having its registered office at P&T Colony, Seethammadhara, Visakhapatnam-530 013, India represented by its authorised signatory, The Chief General Manager/Plg, PP & RA, (hereinafter referred to as "APEPDCL", which term shall mean and include its successors in interest, group companies, associates and assigns);

B.V. Shauthi Sich

EXECUTIVE DIRECTOR HRD & Planning PTRANSCO, Vidyut Soudha, HYDERABAD - 500 082.

or Pujaa Shree Green Energy Won PAHAFIGHINGRAL MANAGER

Planning, Power Purchase & RA A.P.E.P.D.C. Ltd.

rised Signatory

CHIEN GENERAL MANAGER P & MM & IPC

APSPDCL :: TIRUPATI

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED, a company duly incorporated under the Companies Act 1956, having its Corporate Office at Vidyut Soudha, Khairatabad, Hyderabad-500082, India represented by its authorised signatory, Executive Director/HRD & Planning, (hereinafter referred to as "APTRANSCO", which term shall mean and include its successors in interest, group companies, associates and assigns);

AND

SUZLON ENERGY LIMITED, a company duly incorporated under the Companies Act 1956, having its registered office at 5 Shrimali Society, Near Shri Krishna Complex, Navrangpura, Ahmedabad — 380009, Gujarat, India and its Corporate Office at "One Earth" Building, Hadapsar, Pune-411028, Maharashtra, India represented by its authorised signatory Dr. Vinnakota Bapeshwar Rao, President, (hereinafter referred to as "Suzlon", which term shall mean and include its successors in interest, group companies, associates and assigns);

Suzion along with its associates is engaged in the business of manufacturing wind turbine generators and developing wind and solar power projects through engineering, procurement and supply model for various independent power producers.

AND

AXIS ENERGY VENTURES INDIA PRIVATE LIMITED, a company duly incorporated under the Companies Act 1956, having its registered office at 2nd Floor, Plot no.3, House No. 6-3-680/8/3, PMR Plaza, Thakur Mansion Lane, Somajiguda, Hyderabad — 500082, represented by its authorised signatory Mr. K. Ravi Kumar Reddy, Chairman and Managing Director (hereinafter referred to "Axis" which term shall mean and include its successors in interest, group companies, associates and assigns),

Axis, is one of the largest independent power producers in India with primary focus in development and operations of Renewable Energy Projects

APSPDCL, APEPDCL are hereinafter to be jointly referred to as "First Party". APTRANSCO to be referred to as "Second Party" and Suzlon and Axis are hereinafter jointly referred to as "Third Party". "First Party", "Second Party" and "Third Party" shall be referred to collectively as Parties.

WHEREAS:

A. Suzlon and Axis envisaged developing jointly the Renewable Energy Projects (as defined hereinafter) in the state of Andhra Pradesh and accordingly on September 03, 2015 a proposal was submitted to GoAP for development of 4000 MW of Renewable Energy Projects in the state of Andhra Pradesh along with manufacturing facilities. GoAP has issued government order G.O.Ms No. 15 dated November 27, 2015 ("GO") in this regard (attached herewith as Annexure 1).

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HRD & Planning
APTRANSCO, Vidyut Soudha,
HYDERABAD - 500 082.

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

CHIEF GENERAL MANAGER
P & MM & IPC
APSPDCL :: TIRUPATI

CHIEF GENERAL MANAGER

Planning, Power Purchase & RA

Energy Won PWISAK JAN PANAM - 13

Authorised Signatory

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CHIEF GENERAL MANAGER

APSPDCL :: TIRUPATI

- B. The Third Party in pursuance of said GO, have executed Memorandum of Understanding dated December 04, 2015 ("MoU") with GoAP, attached herewith as Annexure 2. As per the MoU, Suzlon and Axis have agreed to jointly participate in developing the Renewable Energy Projects (comprising of wind power projects (3000 MW) and wind-solar hybrid power projects (1000 MW) projects) for an aggregate capacity of about 4000 MW ("Renewable Energy Projects") and Suzlon shall additionally develop facilities for manufacturing blade, tower, nacelle/generator at multiple locations such as Anathapuram and Nellore districts or such other districts identified subsequently ("Manufacturing Facilities").
- C. In terms of the MoU, the GoAP and the Third Party executed the Project Implementation Agreement dated January 11, 2016 ("PIA") (attached herewith as Annexure 3) incorporating the terms and conditions for implementation of Renewable Energy Projects.
- D. Further, In terms of the PIA, the NREDCAP and the Third Party executed the Project Agreement dated February 3, 2016 ("Project Agreement") (attached herewith as Annexure 4) incorporating the terms and conditions for implementation of Renewable Energy Projects in a time bound manner in coordination with APTRANSCO and APDISCOMs.
- E. Further Vide Letter dated March 28, 2016 (attached herewith as Annexure 5), Principal Secretary to the Government of Andhra Pradesh, (Energy, I&I and CRDA) directed APSPDCL and APEPDCL to take necessary further action to sign Power Purchase Agreements in respect of 4000MW of Renewable energy projects (in the format approved by APERC) from time to time and purchase the entire capacity of power generated from the Renewable Energy Projects based on the tariff determined by the APERC.
- F. And also by Letter dated March 28, 2016 (attached herewith as Annexure 6) Principal Secretary to the Government of Andhra Pradesh, (Energy, I&I and CRDA) directed APTRANSCO to take necessary action to create required transmission infrastructure for evacuation of power generated from Renewable Energy Projects on priority basis.
- G. Further to the letter attached as Annexure 5, APSPDCL has written a letter dated 30.05.2016 to APERC requesting to permit for entering into advance PPAs with the Third Party. Subsequently Principal Secretary to GoAP, Energy, I & I Department, vide letter dated 11.08.2016 has directed APTRANSCO and APDISCOMs to take necessary approvals from APERC by submitting long term forecast plan, resource plan and power procurement plan before entering into the PPAs. In response to above APERC communicated vide letter dated 02.09.2016 to The CGM (P&MM&IPC), APSPDCL Tirupathi that "APPCC, APTRANSCO and APDISCOMS are at liberty to consider and determine the response to the issues involved and the matter in which they decide to proceed further in accordance with law. While doing so, the contents of the letter from The Principal Secretary to GoAP, Energy, I & I Department, addressed to CMD/APTRANSCO and CMDs/APDISCOMS dated 11.08.2016 may also be kept in view". All the above letters (3 No.s) are attached here with as Annexure 7.

H. The Coordination Committee meeting was held on 27.07.2016 at Vijayawada (Minutes of Meeting attached herewith as Annexure 8), wherein the Committee directed APTRANSCO for creation of Power Evacuation facilities for the above said Renewable Energy Projects.

NOW THEREFORE, PARTIES HEREIN HAVE AGREED TO THE FOLLOWING.

INTERPRETATIONS

P 8 1914 The nomenclature of this Agreement, heading and paragraph numbers are only for the APSPICE . Tonyenience of reference.

CHIEF GENERAL MANAGER
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EXECUTIVE DIRECTOR
HRD & Planning
APTRANSCO, Vidyut Soudha,
HYDERABAD - 500 082.

For Axis Energy Ventures India Pvt. Ltd.

LE CHARAL MANAGER

P & MM & IPC APSPDCL :: TIRUPATI

Authorised Signatory

- 1.2 Reference to persons and words denoting natural persons shall include bodies, corporate, partnerships, joint ventures, statutory and other authorities and entities.
- 1.3 Reference to any enactment, ordinance or regulation or any provision thereof shall include any amendment thereof or any replacement in whole or in part.
- 1.4 Reference to Recitals, Clauses, or Sub-Clauses shall unless the context otherwise requires, be deemed to include the Recitals, Clause or Sub-Clauses of this Agreement.
- 1.5 The words importing singulars shall include plurals and vice-versa as the case may be.
- 1.6 Terms beginning with capital letters and defined as per this Agreement shall have the same meaning ascribed thereto.
- 1.7 Any reference at any time to any agreement, deed, instrument, license or document of any description shall be construed as reference, to that agreement, deed, instrument, license or other document as amended varied, supplemented, modified or suspended at the time of such reference provided that this Clause shall not operate so as to increase liability or obligations of any Party hereunder or pursuant hereto in any manner whatsoever.
- 1.8 Any agreement, consent, approval, authorization, notice, communication, information or report required under or pursuant to this Agreement from or report required under or pursuant to this Agreement from or by any party shall be valid and effectual only if it is in writing and under the hands of duly authorized representative of such party in this behalf and not otherwise. 1.9 Any reference to any period commencing "from" a specified day or date and "till" or "until" a specified day or date shall include both such days' or dates.
- 1.10 The words / expressions used in this Agreement shall bear the same meaning as assigned to them in the context in which these have been used in this Agreement.

2. DEFINITIONS

2.1 In this Agreement, the various terms shall have the following meanings, except where the context otherwise requires, definitions and other terms expressed in the singular shall also include the plural and vice versa, namely:-

"Arbitration Act" means the Arbitration and Conciliation Act, 1996 and shall include modifications to or any re-enactment thereof as in force from time to time;

"Dispute" shall have the meaning as specified in Clause 7;

"Effective Date" shall mean the date of signing of this Agreement;

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EXECUTIVE DIRECTOR
HRD & Planning
APTRANSCO, Vidyut Soudha,
HYDERABAD - 500 082

CHIEF GENERAL MANAGER
P & MM & IPC

APSPDCL :: TIRUPATI

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

CHIEF GENERAL MANAGER

Energy Won Private W.P.E.P.D.C. Ltd.

orised Signatory

CHIEF GENERAL MANAGER P & MM & IPC

APSPDCL :: TIRUPATI

"Force Majeure" shall have the meaning as ascribed thereto in Clause 5;

"GoAP" shall mean the state government of the Andhra Pradesh;

"Gol" shall mean Government of India;

"Individual Project" shall mean each renewable energy project set up as part of the Renewable Energy Projects based on allotment issued by NREDCAP to M/s, Suzlon Energy Limited and/or M/s. Axis Energy Ventures India Limited;

"Interconnection Facilities" shall have the meaning ascribed in the APERC approved PPA format from time to time.

"Interconnection Point" means the point or points where the Project and the APDISCOM(s) (APSPDCL/APEPDCL)/APTRANSCO grid system are interconnected. For the Renewable Energy Projects, interconnection point is at the EHV side of the pooling substation. The metering for the Project will be provided at the interconnection point as per the directions given by APERC from time to time.

"Project Implementation Agreement" means this Agreement together with the Schedules attached herein and any amendments made thereto in accordance with the provisions herein contained;

"Power Evacuation Facilities" means the facilities to be created for evacuation of the power from the Renewable Energy Projects in line with APERC guidelines from time to time.

"Power Purchase Agreement" shall mean a contractual agreement to be signed with APDISCOM(s), for sale of power generated from the Renewable Energy as may be approved by APERC from time to time.

"Renewable Energy Projects" shall mean that the Renewable Energy Projects (comprising of wind power projects (3000 MW) and wind-solar hybrid power projects (1000 MW) projects) for an aggregate capacity of about 4000 MW as to be executed by the Third Party in accordance with the PIA.

CLAUSE 3

TERMS OF THE AGREEMENT

3.1 Effectiveness

This Agreement shall come into force from the Effective Date.

3.2 Term of the Agreement

This Agreement shall remain in force for a period of 7 (Seven) years from the Effective Date, and will remain in force till the execution of the entire PPAs and Power Evacuation facilities for an aggregate capacity of 4000MW (Wind - 3000MW and Wind - Solar Hybrid -1000MW) of the Renewable Energy Projects.

EXECUTIVE DIRECTOR For Axis Energy Ventures India Pvt. Ltd.

HRD & Planning APTRANSCO, Vidyut Soudhau

HYDERABAD - 500 082.

Chairman & Managing Director

CHIEF GENERAL MANAGER P & MM & IPC APSPDCL :: TIRUPATI

For Pulaa Shren HEPGENERALWANAGER Energy Womanhing, Power Barchase & RA A.P.E.P.D.C. Ltd.

SAKHAPATNAM - 13 thorised Signatory

CHIEF GENERAL MANAGER P & MN & IPC

APSPDCL :: TIRUPATI

3,3 APSPDCL and APEPDCL:

APSPDCL and APEPDCL agree that the principal objective of this Agreement is to record the intent of the Parties to execute Power Purchase Agreements as approved by APERC from time to time and also to extend the necessary support for timely completion of the Renewable Energy Projects and therefore agrees to provide the support to the Third Party as set out in this Agreement.

3.4 APTRANSCO agree that the principal objective of this Agreement is to record the intent of the Parties to extend necessary support for timely completion of the Renewable Energy Projects and therefore agrees to provide the support to the Third Party as set out in this Agreement.

CLAUSE 4

EXECUTION OF POWER PURCHASE AGREEMENT

4.1 First Party agrees to execute Power Purchase Agreements with the Third Party in the format attached as Annexure 9 and as may be approved by APERC, and purchase the entire capacity of the power generated from the Renewable Energy Projects at tariff determined by the Andhra Pradesh Electricity Regulatory Commission in accordance with Section 61, Section 62, Section 86 of Electricity Act, 2003 and any regulations made there under. The terms of the PPA will be as approved by commission from time to time.

Provided that finalization of capacity for entering into PPA by First Party with Third Party from time to time shall be based on the NREDCAP prioritization, duly considering the balance targeted RPPO and the Policies of GoAP, and the project capacity as per the Annexure-10.

- 4.2 The Second Party hereby confirm and agrees to evacuate power produced from the Renewable Energy Projects. The power generated from the Renewable Energy Projects shall be provided with adequate power evacuation facilities by the Second Party for evacuation of power from the Interconnection Point of Renewable Energy projects as per the procedure in vogue and in compliance of APERC orders.
- 4.3 Out of the said 4000 MW of Renewable Energy Projects, 2800 MW will be evacuated through existing grid infrastructure and/or green energy corridor which is created/to be created by Second Party for evacuating Wind/Solar power projects and for remaining 1200 MW of Renewable Energy Projects power evacuation infrastructure will be taken up by the Third Party through PPP model on behalf of the Second Party. The Second Party will constitute a committee along with the Third party and work out the modalities and guidelines for finalization of PPP model.

EXECUTIVE DIRECTOR HRD & Planning APTRANSCO, Vidyut Soudha. HYDERABAD - 500 082.

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

P & WIM & IPC

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A.P.E.P.D.C. Ltd. VISAKHAPATNAM - 13

CHIEF GENERAL MANAGER P & MNI & IPC

APSPDCL :: TIRUPATI

CHIEF GENERAL MANAGER APSPDCL :: TIRUPATI

FORCE MAJEURE

- Force Majeure shall mean any event or circumstance or combination of events or 5.1 circumstances that wholly or partly prevent or unavoidably delay the Party claiming Force Majeure (hereinafter referred to as the "Affected Party") in the performance of its obligations under this Agreement and which act or event:
- is beyond the reasonable control of and not arising out of the fault of the Affected Party; 5.1.1
- the Affected Party has been unable to prevent by the exercise of due diligence and reasonable 5.1.2 efforts, skill and care, including through expenditure of reasonable sums of money; and
- has a materially adverse effect on the Renewable Energy Projects. 5.1.3

Such events include any acts of GoAP/APDISCOMs/APTRANSCO either in its sovereign or its contractual capacity, war, civil war, insurrection, riots, revolutions, fires, floods, epidemics, quarantine restrictions, freight embargoes, radioactivity and earthquakes.

- 5.2 Upon the occurrence of any Force Majeure Event:
- The date for achieving the specific obligations shall be extended by the period for which such 5.2.1 Force Majeure event subsists and the Term shall be proportionately extended; and
- The Parties shall bear their respective costs and no Party shall be required to pay to the other 5.2.2 Party any costs arising out of any Force Majeure Event.

CLAUSE 6

GOVERNING LAW

The rights and obligations of the Parties under or pursuant to this Agreement shall be 6.1 governed by and construed according to the applicable laws. This Agreement shall be subject to the jurisdiction of the competent courts at capital city of Andhra Pradesh.

CLAUSE 7

RESOLUTION OF DISPUTES

7.1 Good Faith Negotiations

> All disputes, disagreement or difference between the Parties (each a "Dispute"), arising out of or in relation to the construction or operation of the Renewable Energy Projects, shall be resolved through the following dispute resolution procedure:

Either Party shall give to the other a written notice setting out the material particulars of Disputes and requiring an authorized Senior Executive Officer each from the APTRANSCO/APDISCOMs and Suzlon/Axis, to meet in person at the capital city of Andhra Pradesh or at any other mutually agreed place within 20 (twenty) working days of the date of Pradesh or at any other mutually agreed place within 20 (twenty) working they receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such notice by the relevant party to attempt negotiation in good faith and using their receipt of such as a such as a

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EXECUTIVE DIRECTOR HRD & Planning APTRANSCO, Vidyut Soudha, HYDERABAD - 500 082.

CHIEF GENERAL MANAGER

Chairman & Managing Director

GENERAL MANAGER P & MM & IPC APSPDCL :: TIRUPATI

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P & MIN & IPC APSPOCL :: THRUPATI

> A.P.E.P.D.C. Ltd. CAKHADATNAM - 13

rised Signatory

- 7.1.2 If the Dispute is not resolved as evidenced by the terms of the settlement being reduced to writing and signed by the Senior Executive Officers of both the Parties within 30 (thirty) working days after the date of receipt of the Notice described in Clause 7.1.1, then the parties may resolve the same in accordance with Clause 7.1.3.
- 7.1.3 If the Dispute is not resolved at the meeting of the Senior Executive Officers of both the Parties, the Chairman and Managing Director, APTRANSCO/APDISCOMs and the Chairman of Suzlon/ Axis shall meet at the capital city of Andhra Pradesh or any other mutually agreed place within 30 (thirty) working days after the expiry of the period as mentioned in Clause 7.1.2, to attempt negotiations in good faith and using their best endeavours at all times to resolve the dispute within a further period of 30 (thirty) days and if the Dispute is still not resolved as evidenced by the terms of the settlement being reduced to writing and signed by the authorised representatives of both the Parties, the provisions of the Clause 7.2 or 7.3 shall apply, unless the said period is mutually extended.
- 7.2 Any Disputes not resolved between the Parties in accordance with Clause 7.1, and if that dispute is falling under the purview of the APERC jurisdiction then same will be referred to the APERC for adjudication.
- 7.3 All other Disputes which do not come under the jurisdiction of APERC and could not be resolved between the Parties in accordance with Clause 7.1, shall be settled by way of arbitration in accordance with the provision of Arbitration and Conciliation Act, 1996 including any statutory modification or variation thereof, by reference to an arbitrator panel of 3 (three) arbitrators, one to be appointed by the First Party or the Second Party, one to be appointed by Third Party and the third to be appointed by the two arbitrators so appointed, who shall act as Chairperson of the Arbitral Tribunal. All the expenses of the arbitration shall be borne and paid by the Parties to the dispute in equal proportion. The arbitrators shall give a speaking Award.
- 7.4 The Award rendered in any arbitration commenced hereunder shall be final and binding.
- 7.5 The arbitration proceedings shall take place at capital city of Andhra Pradesh only and the Courts of the state of Andhra Pradesh alone have jurisdiction to this purpose.
- 7.6 The right to arbitrate disputes under this Agreement shall survive the expiry of term or the Termination of this Agreement.

AMENDMENTS

8.1 No amendments or waiver of any provision of this Agreement and no consent to any departure by either party here form, shall in any event be effective unless the same shall be writing and signed by each of the Parties.

EXECUTIVE DIRECTOR
HRD & Planning
APTRANSCO, Vidyut Soudha,
HYDERABAD - 500 082.

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

P & MM & IPC APSPDCL :: TIRUPATI

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uthorised SIGA P.E.P.D.C. Ltd.
VISAKHAPATNAM - 13

CHIEF GENERAL MANAGER
P & MM & IPC
APSPDCL :: TIRUPATI

COMMUNICATION

- 9.1 Any communication/notice by one Party to the other under this Agreement shall be deemed to be served if sent by cable, fax or E-mail followed by a confirmation letter delivered by hand or by registered mail to the respective addresses.
 - 9.2 Communication should be addressed as below:

For First Party

APSPDCL

The Chief General Manager/P&MM&IPC, Andhra Pradesh Southern Power Distribution Company Limited D.No:19-13-65/A, Srinivasapuram, Tiruchanoor Road, Tirupathi-517503, Chittoor District, Andhra Pradesh.

APEPDCL

The Chief General Manager/Plg, PP & RA, Andhra Pradesh Eastern Power Distribution Company Limited P & T Colony, Seethammadhara, Vishakapatnam-530 013, Andhra Pradesh. For Second Party

APTRANSCO

The Executive Director/ HRD & Plg., Transmission Corporation of Andhra Pradesh Limited Vidyuth Soudha, Khiarathabad, Hyderabad-500082.

For Third Party

The Chairman and Managing Director, Suzlon Energy Limited, One Earth" Building, Hadapsar, Pune-411028, Maharashtra, India Tel. No.: +91-20-67022000/61356135/67202500

Fax No.: +91-20-67022100/67022200

Email id: emd@suzlon.com

Axis

The Chairman and Managing Director, Axis Energy Ventures India Private Limited, 2nd Floor, Plot no.3, House No. 6-3-680/8/3, PMR Plaza, Thakur Mansion Lane, Somajiguda, Hyderabad - 500 082

Tel No.: +91 040 23412312/23412313 Fax No.: +91 040 23412314

Email id: ravi@axisenergy.in

(Mr.

EXECUTIVE DIRECTOR HRD & Planning APTRANSCO, Vidyut Soudha, HYDERABAD - 500 082.

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

CHIEF GENERAL MANAGER P & MM & IPC APSPDCL :: TIRUPATI

CHIEF GENERAL MANAGER P & MW & DC APSPOCE : TIEUPATI

For Pujaa Shree Green Renewable

Energy Won Private Limited HIEF GENERAL MANAGER Manning, Power Purchase & RA

horiseA.P.B.P.D.C. Ltd. VISAKHAPATNAM - 13

MISCELLANEOUS

10.1 Relationship of the Parties

This agreement shall not be interpreted or construed or create an association, joint venture or partnership between the Parties or to impose any partnership obligation or right upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other party.

10.2 Third Parties

This agreement is intended solely for the benefit of the Parties hereto. Nothing in this agreement shall be construed to create any duty, to standard of care with reference to, or any liability to, any person not a party to this Agreement.

10.3 Severability

If for any reason whatever any provision of this Agreement is or becomes invalid, illegal or unenforceable or is declared by any court of competent jurisdiction or any other instrumentality to be invalid, illegal or unenforceable, the validity, legality or enforceability of the remaining provisions shall not be affected in any manner, and the Parties will negotiate in good faith with a view to agreeing one or more provisions which may be substituted for such invalid, unenforceable or illegal provisions, as nearly as is practicable to such invalid, Illegal or unenforceable provision. Failure to agree upon any such provisions shall not be subject to dispute resolution under the Agreement or otherwise.

10.4 Survival

The termination or expiry of this Agreement shall not affect the accrued rights, obligations and liabilities of either party under this agreement, nor shall it affect any continuing obligations, which this Agreement provides, whether expressly or by necessary implication.

IN WITNESS, the Parties hereto have executed and delivered this Agreement at on the date first written above.

For and on behalf of APSPDCL The Chief General Manager/P&MM&IPC

CHIEF GENERAL MANAGER P & MM & IPC

APSPDCL :: TIRUPATI

MY EXECUTIVE DIRECTOR HRD & Planning APTRANSCO, Vidyut Soudha, HYDERABAD - 500 082.

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

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CHIEF GENERAL MANAGER P & MM & IPC APSPDCL :: TIRUPATI

or Pujaa Shree Gra Energy Won P anning, Power Purchase & RA A.P.E.P.D.C. Ltd.

AKHAPATNAM - 10

	For and on behalf of APEPDCL
CHIEF GENERAL MANAGER Planning, Power Purchase & RA	bwt 10
A.P.E.P.D.G. Ltd. VISAKHAPATNAM - 13	The Chief General Manager/Plg, PP & RA

EXECUTIVE DIRECTOR	For and on behalf of APTRANSCO
HRD & Planning APTRANSCO, Vidyut Soudha, HYDERABAD - 500 082.	B.V. Shaultin Selher
Tribulation Con Cont.	Executive Director/HRD & Ping.

ENERGY	For and on behalf of SUZLON ENERGY LIMITED
(Time)	Pyckni
100 89	PRESIDENT

For and on behalf of AXIS ENERGY VENTURES INDIA PRIVATE LIMITED
For Axis Energy Ventures India Pvt. Ltd.
The Chairman and Managing Director Chairman & Managing Director
Chairman & Managing

Witness:

2. (Seenowrs)

2. Joya Prakash. F.

Suzlon Energy Ltd.,

Hyderabad.,

For Pulsa Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGER P & MM & IPC APSPDGL :: TIRUPATI

18

LIST OF ANNEXURES

ANNEXURE 1

G.O.Ms No. 15 dated November 27, 2015

ANNEXURE 2

MoU dated December 04, 2015 executed between the GoAP and Third Party.

ANNEXURE 3

Project Implementation Agreement (PIA) dated January 11, 2016.

ANNEXURE4

Project Agreement dated February 03, 2016.

ANNEXURE 5

Letter dated March 28, 2016, of Principal Secretary to the GoAP, (Energy, I&I and CRDA).

ANNEXURE 6

Letter dated March 28, 2016, of Principal Secretary to the GoAP, (Energy, I&I and CRDA).

ANNEXURE 7

Letter No. APSPDCL/TPT/GM/IPC/F./D.NO/ 484/2016 dated 30.05,2016 of CGM APSPDCL to The Secretary APERC.

Letter No. 1050/POWER.I (1)/2016, dated 11. 08. 2016, of The Principal Secretary to the GoAP, (Energy, I&I and CRDA).

Letter No. APERC/JD(PPP)/DD(P&PP)/F.No.E-509/D.No.687/2016, dated 02.09.2016 from The Secretary APERC to CGM APSPDCL.

ANNEXURE 8

Minutes of Meeting of Coordination committee dated: 01.08.2016.

ANNEXURE 9

Power Purchase Agreement format approved by APERC.

ANNEXURE 10

In plementation schedule of Renewable Energy Projects in accordance with PIA.

CHIEF GENERAL MANAGER

P & MM & IPC APSPDGL :: TIRUPATI

CHIEF GENERAL

HRD & Planning

APTRANSCO, Vidyut Soudha, Pulsa Shree Graga CReson was to

Planning, Power Purchase & R A.P.E.P.D.C. Ltd. VISAKHAPATNAM - 13

sed Signatory

For Axis Energy Ventures India Pvt. Ltd.

Chairman & Managing Director

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P & MM & IPC APSPDCL :: TIRUPATI



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Serial No:111 Purchased By :

SPN VENKATJAISIMHA S/O P NARASING RAO HYDERABAD Denomination: 100

For: PUJAA SHREE RENEWBLE ENERGY WON PVT LTD PUNE

Date02-01-2019

Stamp 6/ no CK 126913

Sub Registrar

Ex. Offico Stamp Vendor SRO Tirupathi (R.0)

Amendment dated. 2019 entered between APSPDCL and M/s. Pujaa Shree Green Renewable Energy Won Private Limited, to the Power Purchase Agreement (PPA) dated 02.11.2018

This Amendment to Power Purchase Agreement dated 02.11.2018 ("Amendment Agreement") is being entered into this day of January, 2019 between: Southern Power Distribution Company of AP Limited (DISCOM), incorporated by the Government of Andhra Pradesh in accordance with the Andhra Pradesh Electricity Reform Act 1998 (Act No.30 of 1998), under the provisions of Companies Act, 1956, having its office at 19-13-65/A, Ragavendra Nagar, Kesavayana Gunta, Tiruchanoor Road Tirupati, Pin-517501,AP, India, hereinafter referred to as the "DISCOM" (which expression shall, unless repugnant to the context or meaning thereof, include its successors and assigns) as first party, and M/s. Pujaa Shree Green Renewable Energy Won Private Limited, a company incorporated under companies Act,1956, having registered office at SF No.594/2, Manikarar Thottam Varapatti, Sultanpet (Post) Coimbatore – 641 669, India, hereinafter referred to as the "Wind Power Producer" (which

For Pujas Shree Green Renewable Energy Won Private Limited

Authorised Signatory

CHIEF GENERAL MANAGAR
PROJECTS & IPC
APSPDCL:: TIRUPATHI

expression shall, unless repugnant to the con-text or meaning thereof, include its successors and assigns) as second party. The first party and the second party shall hereinafter individually be referred as "Party" and collectively as "Parties".

WHEREAS, the Wind Power Producer is setting up the New and Renewable Energy Project i.e., the 2.1 MW capacity Wind power project at Belguppa in Anantapuram District, Andhra Pradesh (hereafter called the Project,) with a proposal of 0.0105 MW for Auxiliary Consumption and 2.0895 MW for export to grid for Sale to DISCOM.

WHEREAS, the Parties had executed power purchase agreement dated 02.11.2018 ("PPA") in relation to sale of power from the Project to the DISCOM.

WHEREAS, the Hon'ble APERC has communicated certain remarks in respect of the PPAs vide Lr.No.APERC/JD(PPP)/DD(PPP)/F.No.E-1152/ D.No.1006/18, Dt. 06.12.2018

WHEREAS, in view of the above, the Parties have discussed and agreed to amend few provisions of the PPA and in consideration of the foregoing premises and their mutual covenants herein and under the PPA, and for other valuable consideration, the receipt and sufficiency of which are acknowledged, the Parties, intending to be legally bound hereby agree as follows:

1. Article 1.15 of the PPA shall stand revised and replaced with the following:

"Pooling or Receiving Substation: means 33KV/220 KV SS constructed. owned and maintained by the Wind Power Producer at Belguppa in Anantapuram District for the sole purpose of evacuating energy generated by the Project to the Grid System and for facilitating interconnection between the transmission lines emanating from the Project and the Grid System. As indicated in the Preamble, the Pooling Substation will be common for all Wind power projects connected to the Pooling Substation."

or Pulsa. Shree Green Renewable Energy Won Priyate Limited

Authorised Signatory

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APSPDCL : : TIRUPATHA

2. Article 2.2 of the PPA shall stand revised and replaced with the following:

"The Wind Power Producer shall be paid tariff for energy delivered at the interconnection point for sale to DISCOM, which shall be at the tariff rate as determined by APERC in accordance with section 61, Section 62, Section 86 of Electricity Act, 2003 and the principles contained in the provisions of the Central Electricity Regulatory Commission (Terms and Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2017 and the orders of APERC, without considering Accelerated Depreciation for a period of 25 years from the Commercial Operation Date."

3. Article 9.1 of the PPA shall stand revised and replaced with the following:

"The Wind Power Producer shall achieve Commercial Operation Date within two years from the date of consent for this Agreement is granted by APERC, default of which, the Agreement is liable for termination and the same can be done at the option of the DISCOM with due notice."

4. SCHEDULE IV of the PPA shall stand revised and replaced with the following:

"Annexure – I to the Commission's order dated 30-03-2010 in O.P. No. 40 of 2010 and Commission's Order dated 11-07-2012 in O.P. No. 7 of 2012 and letter dated 04-06-2014 and the Central Electricity Regulatory Commission (Terms and Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2017."

- 5. This Amendment Agreement shall form an integral part of the PPA and except as stated herein above all other terms and conditions of the PPA shall remain unaltered and shall apply to this Amendment Agreement.
- 6. This Amendment Agreement shall be effective upon execution and shall be enforceable subject to receipt of the consent of Andhra Pradesh Electricity Regulatory Commission under Section 21 of the A.P. Electricity Reform Act, 1998.

Energy Won Private Limited

thorised Signatory

PROJECTS & IPC
APSPDCL: TIRUPATH

CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

No.: 1/21/2017-Reg.Aff./(RE-Tariff - 2017-20)/CERC Dated: 17th April 2017

NOTIFICATION

In exercise of powers conferred under Section 61 read with Section 178 (2)(s) of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

1. Short title and commencement

- These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2017.
- 2) These regulations shall come into force on 1.4.2017, and unless reviewed earlier or extended by the Commission, shall remain in force for a period of 3 years from the date of commencement.

2. Definitions and Interpretation

- 1) In these regulations, unless the context otherwise requires,
 - a) 'Act' means the Electricity Act, 2003 (36 of 2003);
 - b) 'Auxiliary energy consumption' or 'AUX' in relation to a period in case of a generating station means the quantum of energy consumed by auxiliary equipment of the generating station, and transformer losses

- within the generating station, expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station;
- c) 'Biomass' means wastes produced during agricultural and forestry operations (for example straws and stalks) or produced as a by-product of processing operations of agricultural produce (e.g., husks, shells, deoiled cakes, etc); wood produced in dedicated energy plantations or recovered from wild bushes/weeds; and the wood waste produced in some industrial operations;
- d) **'Biomass gasification'** means a process of incomplete combustion of biomass resulting in production of combustible gases consisting of a mixture of Carbon monoxide (CO), Hydrogen (H₂) and traces of Methane (CH₄), which is called producer gas;
- e) 'Biogas' means a gas created when organic matter like crop residues, sewage and manure breaks down in an oxygen-free environment (ferments);
- f) **'Capital cost'** means the capital cost as defined in regulations 12, 25, 28, 33, 44, 52,57, 62, 70 and 77;
- g) **'Commission'** means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;
- h) **'Conduct of Business Regulations' means** the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 as amended from time to time;
- 'Control Period or Review Period' means the period during which the norms for determination of tariff specified in these regulations shall remain valid;
- j) 'Gross calorific value' or 'GCV' in relation to a fuel used in generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one liter of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be;
- k) 'Gross station heat rate' or 'SHR' means the heat energy input in

- kCal required to generate one kWh of electrical energy at generator terminals of a thermal generating station;
- 'Hybrid Solar Thermal Power Plant' means the solar thermal power plant that uses other forms of energy input sources along with solar thermal energy for electricity generation, and wherein not less than 75% of electricity is generated from solar energy component;
- m) 'Installed capacity' or 'IC' means the summation of the name plate capacities of all the units of the generating station or the capacity of the generating station (reckoned at the generator terminals), approved by the Commission from time to time:
- n) 'Inter-connection Point' shall mean interface point of renewable energy generating facility with the transmission system or distribution system, as the case may be:
 - i. in relation to wind energy projects and solar photovoltaic Projects, inter-connection point shall be line isolator on outgoing feeder on HV side of the pooling sub-station;
 - ii. in relation to small hydro power, biomass power and non fossil fuel based cogeneration power projects and solar thermal Power Projects the, inter-connection point shall be line isolator on outgoing feeder on HV side of generator transformer;
- o) 'MNRE' means the Ministry of New and Renewable Energy of the Government of India;
- p) 'Municipal solid waste' or 'MSW' means and includes commercial and residential wastes generated in a municipal or notified areas in either solid or semi-solid form excluding industrial hazardous wastes but including treated bio-medical wastes;
- q) 'Non-firm power' means the power generated from renewable sources, the hourly variation of which is dependent upon nature's phenomenon like sun, cloud, wind, etc., that cannot be accurately predicted;
- r) 'Non fossil fuel based co-generation' means the process in which

more than one form of energy (such as steam and electricity) are produced in a sequential manner by use of biomass provided the project may qualify to be a co-generation project if it fulfills the eligibility criteria as specified in clause (4) of Regulation 4;

- s) 'Operation and maintenance expenses' or 'O&M expenses' means the expenditure incurred on operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, repairs, spares, consumables, insurance and overheads;
- t) **'Project'** means a generating station or the evacuation system upto inter-connection point, as the case may be, and in case of a small hydro generating station includes all components of generating facility such as dam, intake water conductor system, power generating station and generating units of the scheme, as apportioned to power generation;
- u) 'Refuse derived fuel' or 'RDF' means segregated combustible fraction of solid waste other than chlorinated plastics in the form of pellets or fluff produced by drying, de-stoning, shredding, dehydrating, and compacting combustible components of solid waste that can be used as fuel:
- v) **'Renewable Energy'** means the grid quality electricity generated from renewable energy sources;
- w) 'Renewable Energy Power Plants' means the power plants other than the conventional power plants generating grid quality electricity from renewable energy sources;
- x) 'Renewable Energy Sources' means renewable sources such as small hydro, wind, solar including its integration with combined cycle, biomass, bio fuel cogeneration, urban or municipal waste and other such sources as approved by the MNRE;
- y) **'Small Hydro'** means Hydro Power projects with a station capacity up to and including 25 MW;
- z) **'Solar PV power'** means the Solar Photo Voltaic power project that uses sunlight for direct conversion into electricity through Photo Voltaic

technology;

- aa) 'Solar Thermal power' means the Solar Thermal power project that uses sunlight for direct conversion into electricity through Concentrated Solar Power technology based on either line focus or point focus principle;
- bb) 'Tariff period' means the period for which tariff is to be determined by the Commission on the basis of norms specified under these Regulations;
- cc) 'Useful Life' in relation to a unit of a generating station including evacuation system shall mean the following duration from the date of commercial operation (COD) of such generation facility, namely:-

(a) Wind energy power project	25 years
(b) Biomass power project with	
Rankine cycle technology	20 years
(c) Non-fossil fuel cogeneration project	20 years
(d) Small Hydro Plant	35 years
(e) Municipal Solid Waste (MSW)/ and	
Refuse Derived Fuel (RDF) based	
power project	20 years
(f) Solar PV/Solar thermal power project	25 years
(g) Biomass Gasifier based power project	20 years
(h) Biogas based power project	20 years

- dd) 'Year' means a financial year.
- (2) Save as aforesaid and unless repugnant to the context or if the subject- matter otherwise requires, words and expressions used in these regulations and not defined, but defined in the Act, or the Indian Electricity Grid Code or the Central Electricity Regulatory Commission (Terms and conditions of Tariff) Regulations, 2014 shall have the meanings assigned to

them respectively in the Act or the Indian Electricity Grid Code or the Central Electricity Regulatory Commission (Terms and conditions of Tariff) Regulations, 2014.

3. Scope and extent of application

These regulations shall apply in all cases where tariff, for a generating station or a unit thereof commissioned during the Control Period and based on renewable sources of energy, is to be determined by the Commission under Section 62 read with Section 79 of the Act.

Provided that in cases of Wind, Small Hydro projects, Biomass power based on Rankine cycle, non-fossil fuel based cogeneration projects, Solar PV, Solar Thermal power projects, Biomass gasifier, Biogas power project, Municipal solid waste and Refuse derived fuel based power projects, these regulations shall apply subject to the fulfillment of eligibility criteria specified in Regulation 4 of these Regulations.

4. Eligibility Criteria

- a) **Wind power project** using new wind turbine generators, located at the sites approved by State Nodal Agency/State Government.
- b) **Small hydro project** located at the sites approved by State Nodal Agency/ State Government using new plant and machinery, and installed power plant capacity to be lower than or equal to 25 MW at single location.
- c) Biomass power project based on Rankine cycle technology Biomass power projects using new plant and machinery based on Rankine cycle technology and using biomass fuel sources, without use of fossil fuel.
- d) **Non-fossil fuel based co-generation project**: The project shall qualify to be termed as a non-fossil fuel based co-generation project, if it is using new plant and machinery and is in accordance with the definition and also meets the

qualifying requirement outlined below:

Topping cycle mode of co-generation – Any facility that uses non-fossil fuel input for the power generation and also utilizes the thermal energy generated for useful heat applications in other industrial activities simultaneously.

Provided that for the co-generation facility to qualify under topping cycle mode, the sum of useful power output and one half the useful thermal output be greater than 45% of the facility's energy consumption, during season.

Explanation- For the purposes of this clause,

- (a) 'Useful power output' is the gross electrical output from the generator. There will be an auxiliary consumption in the cogeneration plant itself (e.g. the boiler feed pump and the FD/ID fans). In order to compute the net power output it would be necessary to subtract the auxiliary consumption from the gross output. For simplicity of calculation, the useful power output is defined as the gross electricity (kWh) output from the generator.
- (b) '<u>Useful Thermal Output'</u> is the useful heat (steam) that is provided to the process by the cogeneration facility.
- (c) 'Energy Consumption' of the facility is the useful energy input that is supplied by the fuel (normally bagasse or other such biomass fuel).
- (d) 'Topping Cycle' means a co-generation process in which thermal energy produces electricity followed by useful heat application.
- e) **Solar PV and Solar Thermal Power Project** Based on technologies approved by MNRE.
- f) Biomass Gasifier based Power Project The project shall qualify to be termed as a biomass gasifier based power project, if it is using new plant and machinery and having a Grid connected system that uses 100% producer gas engine, coupled with gasifier technologies approved by MNRE.
- g) **Biogas based Power Project** The project shall qualify to be termed as a biogas based power project, if it is using new plant and machinery and having

- grid connected system that uses 100% Biogas fired engine, coupled with Biogas technology for co-digesting agriculture residues, manure and other bio waste as may be approved by MNRE.
- h) Municipal solid waste (MSW) based power projects The project shall qualify to be termed as a Municipal solid waste (MSW) based power project if it is using new plant and machinery based on Rankine cycle technology and using Municipal solid waste (MSW) as fuel sources
- i) Refuse derived fuel (RDF) based power projects The project shall qualify to be termed as a Refuse derived fuel (RDF) based power project, if it is using new plant and machinery based on Rankine cycle technology and using Refuse derived fuel (RDF) as fuel sources

Chapter 1: General Principles

5. Control Period or Review Period

The Control Period or Review Period under these Regulations shall be of three (3) years, of which the first year shall be the financial year 2017-18.

Provided further that the tariff determined as per these Regulations for the RE projects commissioned during the Control Period, shall continue to be applicable for the entire duration of the Tariff Period as specified in Regulation 6 below.

Provided also that the revision in Regulations for next Control Period shall be undertaken six months prior to the end of the first Control Period and in case Regulations for the next Control Period are not notified until commencement of next Control Period, the tariff norms as per these Regulations shall continue to remain applicable until notification of the revised Regulations subject to adjustments as per revised Regulations.

6. Tariff Period

- a) The Tariff Period for Renewable Energy power projects will be same as their Useful Life as defined in Regulation 2 (1) (cc)
- b) Tariff period under these Regulations shall be considered from the date of commercial operation of the renewable energy generating stations.
- c) Tariff determined as per these Regulations shall be applicable for Renewable Energy power projects, for the duration of the Tariff Period as stipulated under Clause (a) and (b).

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7. Project Specific tariff

- a) Project specific tariff, on case to case basis, shall be determined by the Commission for the following types of projects:
 - i. Solar PV and Solar Thermal;
 - Wind Energy (including on-shore and off-shore);
 - iii. Biomass Gasifier based projects; if a project developer opts for project specific tariff;
 - iv. Biogas based projects; if a project developer opts for project specific tariff;
 - Municipal Solid Waste and Refuse Derived Fuel based projects with Rankine cycle technology;
 - vi. Hybrid Solar Thermal Power Projects;
 - vii. Other hybrid projects include renewable–renewable or renewable–conventional sources, for which renewable technology is approved by MNRE;
 - viii. Any other new renewable energy technologies approved by MNRE.
- b) Determination of Project specific tariff for generation of electricity from such renewable energy sources shall be in accordance with such terms and conditions as stipulated under relevant Orders of the Commission.
- c) No annual generic tariff shall be determined for the technologies mentioned in Clause (a) of this Regulation. Financial and Operational norms as may be specified would be the ceiling norms while determining the project specific tariff.

Provided that the financial norms as specified under Chapter-2 of these Regulations, except for capital cost, shall be ceiling norms while determining the project specific tariff.

8. Petition and proceedings for determination of tariff

(1) The Commission shall determine the generic tariff on the basis of suo-motu petition six months in advance at the beginning of each year of the Control

period for renewable energy technologies for which norms have been specified under the Regulations.

- (2) A petition for determination of project specific tariff shall be accompanied by such fee as may be determined by regulations and shall be accompanied by:
 - a) Information in forms 1.1, 1.2, 2.1 and 2.2 as the case may be, and as appended in these regulations;
 - b) Detailed project report outlining technical and operational details, site specific aspects, premise for capital cost and financing plan etc.
 - c) A statement of all applicable terms and conditions and expected expenditure for the period for which tariff is to be determined.
 - d) A statement containing full details of calculation of any subsidy and incentive received, due or assumed to be due from the Central Government and/or State Government. This statement shall also include the proposed tariff calculated without consideration of the subsidy and incentive.
 - e) Any other information that the Commission requires the petitioner to submit.
- (3) The proceedings for determination of tariff shall be in accordance with the Conduct of Business Regulations.

9. Tariff Structure

The tariff for renewable energy technologies shall be single part tariff consisting of the following fixed cost components:

- (a) Return on equity;
- (b) Interest on loan capital;
- (c) Depreciation;
- (d) Interest on working capital;
- (e) Operation and maintenance expenses;

Provided that for renewable energy technologies having fuel cost component, like biomass power projects and non-fossil fuel based cogeneration, single part

tariff with two components, fixed cost component and fuel cost component, shall be determined.

10. Tariff Design

- (1) The generic tariff shall be determined considering the year of commissioning of the project, on levellised basis for the Tariff Period. Provided that for renewable energy technologies having single part tariff with two components, tariff shall be determined on levellised basis considering the year of commissioning of the project for fixed cost component while the fuel cost component shall be specified on year of operation basis.
- (2) For the purpose of levellised tariff computation, the discount factor equivalent to Post Tax weighted average cost of capital shall be considered.
- (3) Levellisation shall be carried out for the 'useful life' of the Renewable Energy project.
- (4) The above principles shall also apply for project specific tariff.

11. Despatch principles for electricity generated from Renewable Energy Sources:

- (1) All renewable energy power plants except for biomass power plants with installed capacity of 10 MW and above, and non-fossil fuel based cogeneration plants shall be treated as 'MUST RUN' power plants and shall not be subjected to 'merit order despatch' principles.
- (2) The biomass power generating station with an installed capacity of 10 MW and above and non-fossil fuel based co-generation projects shall be subjected to scheduling and despatch code as specified under Indian Electricity Grid Code (IEGC) and Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2014 including amendments thereto.

CERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2017

(3) Scheduling of wind and solar energy shall be governed as per the aforesaid provisions of Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Third Amendment) Regulations, 2015 and Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) (Second Amendment) Regulations, 2015 as amended from time to time.

Chapter 2: Financial Principles

12. Capital Cost

The norms for the Capital cost as specified in the subsequent technology specific chapters shall be inclusive of all capital work including plant and machinery, civil work, erection and commissioning, financing and interest during construction, and evacuation infrastructure up to inter-connection point.

Provided that for project specific tariff determination, the generating company shall submit the break-up of capital cost items along with its petition in the manner specified under Regulation 8.

13. Debt Equity Ratio

- (1) For generic tariff to be determined based on suo-motu petition, the debt equity ratio shall be 70:30.
- (2) For Project specific tariff, the following provisions shall apply:-

If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan.

Provided that where equity actually deployed is less than 30% of the capital cost, the actual equity shall be considered for determination of tariff:

Provided further that the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment.

14. Loan and Finance Charges

(1) Loan Tenure

For the purpose of determination of tariff, loan tenure of 13 years shall be considered.

(2) Interest Rate

- (a) The loans arrived at in the manner indicated in Regulation 13 shall be considered as gross normative loan for calculation for interest on loan. The normative loan outstanding as on April 1st of every year shall be worked out by deducting the cumulative repayment up to March 31st of previous year from the gross normative loan.
- (b) For the purpose of computation of tariff, normative interest rate of two hundred (200) basis points above the average State Bank of India Marginal Cost of Funds based Lending Rate (MCLR) (one year tenor) prevalent during the last available six months shall be considered.
- (c) Notwithstanding any moratorium period availed by the generating company, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the annual depreciation allowed.

15. Depreciation

- (1) The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission. The Salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the Capital Cost of the asset.
- (2) Depreciation rate of 5.28% per annum for first 13 years and remaining depreciation to be spread during remaining useful life of the RE projects considering the salvage value of the project as 10% of project cost shall be considered.
- (3) Depreciation shall be chargeable from the first year of commercial operation.

Provided that in case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis.

16. Return on Equity

- (1) The value base for the equity shall be 30% of the capital cost or actual equity (in case of project specific tariff determination) as determined under Regulation 13.
- (2) The normative Return on Equity shall be 14%, to be grossed up by prevailing Minimum Alternate Tax (MAT) as on 1st April of previous year for the entire useful life of the project.

17. Interest on Working Capital

- (1) The Working Capital requirement in respect of Wind energy projects, Small Hydro Power, Solar PV and Solar thermal power projects shall be computed in accordance with the following:
 - a) Operation & Maintenance expenses for one month;
 - b) Receivables equivalent to 2 (Two) months of energy charges for sale of electricity calculated on the normative Capacity Utilisation Factor (CUF);
 - c) Maintenance spare @ 15% of operation and maintenance expenses
- (2) The Working Capital requirement in respect of Biomass power projects with Rankine Cycle technology, Biogas, Biomass Gasifier based power projects, non-fossil fuel based Co-generation, Muncipal Solid Waste and Refuse Derived Fuel projects shall be computed in accordance with the following clause:
 - a) Fuel costs for four months equivalent to normative Plant Load Factor (PLF);
 - b) Operation & Maintenance expense for one month;
 - Receivables equivalent to 2 (Two) months of fixed and variable charges for sale of electricity calculated on the target PLF;
 - d) Maintenance spare @ 15% of operation and maintenance expenses

(3) Interest on Working Capital shall be at interest rate equivalent to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months for the determination of tariff.

18. Calculation of CUF/PLF:

The number of hours for calculation of CUF/PLF (wherever applicable) for various RE technologies shall be 8766.

19. Operation and Maintenance Expenses

- (1) 'Operation and Maintenance or O&M expenses' shall comprise repair and maintenance (R&M), establishment including employee expenses, and administrative and general expenses.
- (2) Operation and maintenance expenses shall be determined for the Tariff Period based on normative O&M expenses specified by the Commission subsequently in these Regulations for the first Year of Control Period.
- (3) Normative O&M expenses allowed during first year of the Control Period (i.e. FY 2017-18) under these Regulations shall be escalated at the rate of 5.72% per annum over the Tariff Period.

20. Rebate.

- (1) For payment of bills of the generating company through letter of credit, a rebate of 2% shall be allowed.
- (2) Where payments are made other than through letter of credit within a period of one month of presentation of bills by the generating company, a rebate of 1% shall be allowed.

21. Late payment surcharge

In case the payment of any bill for charges payable under these regulations is

delayed beyond a period of 60 days from the date of billing, a late payment surcharge at the rate of 1.25% per month shall be levied by the generating company.

22. Sharing of CDM Benefits

- (1) The proceeds of carbon credit from approved CDM project shall be shared between generating company and concerned beneficiaries in the following manner, namely-
 - a) 100% of the gross proceeds on account of CDM benefit to be retained by the project developer in the first year after the date of commercial operation of the generating station;
 - b) In the second year, the share of the beneficiaries shall be 10% which shall be progressively increased by 10% every year till it reaches 50%, where after the proceeds shall be shared in equal proportion, by the generating company and the beneficiaries.

23. Subsidy or incentive by the Central / State Government

The Commission shall take into consideration any incentive or subsidy offered by the Central or State Government, including accelerated depreciation benefit if availed by the generating company, for the renewable energy power plants while determining the tariff under these Regulations.

Provided that the following principles shall be considered for ascertaining income tax benefit on account of accelerated depreciation, if availed, for the purpose of tariff determination:

- i) Assessment of benefit shall be based on normative capital cost, accelerated depreciation rate as per relevant provisions under Income Tax Act and corporate income tax rate.
- ii) Capitalization of RE projects during second half of the fiscal year. Per unit benefit shall be derived on levellised basis at discount factor equivalent to

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weighted average cost of capital.

24. Taxes and Duties

Tariff determined under these regulations shall be exclusive of taxes and duties as may be levied by the appropriate Government:

Provided that the taxes and duties levied by the appropriate Government shall be allowed as pass through on actual incurred basis.

Chapter 3: Technology specific parameters for Wind Energy

25. Capital Cost

The Commission shall determine only project specific capital cost and tariff based on prevailing market trends for wind energy project.

26. Capacity Utilisation Factor (CUF)

(1) CUF norms for this control period shall be as follows:

Annual Mean Wind Power Density (W/m ²)	CUF
Upto 220	22%
221-275	24%
276-330	28%
331-440	33%
> 440	35%

- (2) The annual mean wind power density specified in sub-regulation (1) above shall be measured at 100 meter hub-height.
- (3) For the purpose of classification of wind energy project into particular wind zone class, as per MNRE guidelines for wind measurement, wind mast either put-up by NIWE or a private developer and validated by NIWE, would be normally extended 10 km from the mast point in all directions for uniform terrain and limited to appropriate distance in complex terrain with regard to complexity of the site. Based on such validation by NIWE, state nodal agency should certify zoning of the proposed wind farm complex.

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27. Operation and Maintenance (O & M) Expenses

The Commission shall determine only Project Specific O&M Expenses based on the prevailing market information.

Chapter 4: Technology specific parameters for Small Hydro Project

28. Capital Cost

(1) The normative capital cost for small hydro projects during first year of Control Period (FY 2017-18) shall be as follows:

Region	Project Size	Capital Cost (Rs. Lakh/ MW)
Llimanahal Dradaah Llttarakhand	Below 5 MW	1000
Himanchal Pradesh, Uttarakhand, West Bengal and North Eastern States	5 MW to 25 MW	900
	Below 5 MW	779
Other States	5 MW to 25 MW	707

(2) Capital Cost Indexation Mechanism

The Capital Cost for SHP as specified for first year of control period will remain valid for the entire duration of the control period unless reviewed earlier by the Commission.

29. Capacity Utilisation Factor

CUF for the small hydro projects located in Himachal Pradesh, Uttarakhand, West Bengal and North Eastern States shall be 45% and for other States, CUF shall be 30%.

Explanation: For the purpose of this Regulation normative CUF is net of free power to the home state if any, and any quantum of free power if committed by the developer over and above the normative CUF shall not be factored into the tariff.

30. Auxiliary Consumption

Normative Auxiliary Consumption for the small hydro projects shall be 1.0%.

31. Operation and Maintenance Expenses

(1) Normative O&M expenses for the first year of the Control period (i.e. FY 2017-18 shall be as follows.

Region	Project Size	O&M Expense (Rs. Lakh/ MW)
Himachal Pradesh, Uttarakhand, West Bengal and North Eastern States	Below 5 MW	36
	5 MW to 25 MW	27
Other States	Below 5 MW	29
	5 MW to 25 MW	21

(2) Normative O&M expenses allowed under these Regulations shall be escalated at the rate of 5.72% per annum for the Tariff Period for the purpose of determination of levellised tariff.

Chapter 5: Technology specific parameters for Biomass Power Projects based on Rankine Cycle Technology

32. Technology Aspect

The norms for tariff determination specified hereunder are for biomass power projects based on Rankine cycle technology application using air-cooled or water-cooled condenser.

33. Capital Cost

(1) The Commission proposes to determine normative capital cost for FY 2017-18 for Biomass Projects as under;

Biomass Rankine Cycle Projects	Capital Cost (FY 2017-18) (Rs. lakhs/ MW)
Project [other than rice straw and juliflora (plantation) based project] with water cooled condenser	559.03
Project [other than rice straw and Juliflora(plantation) based project] with air cooled condenser	600.44
For rice straw and juliflora (plantation) based project with water cooled condenser	610.80
For rice straw and juliflora (plantation) based project with air cooled condenser	652.20

(2) Capital Cost Indexation Mechanism

The Capital Cost for Biomass Power Projects based on Rankine Cycle Technology as specified for first year of the control period will remain valid for the entire

duration of the control period unless reviewed earlier by the Commission.

34. Plant Load Factor

- (1) Threshold PLF for determining fixed charge component of Tariff shall be:
 - a) During Stabilisation: 60%
 - b) During the remaining period of the first year (after stabilization): 70%
 - c) From 2 Year onwards: 80 %
- (2) The stabilisation period shall not be more than 6 months from the date of commissioning of the project.

35. Auxiliary Consumption

The auxiliary power consumption factor shall be as follows:-

- a) For the project using water cooled condenser:
 - i. During first year of operation: 11%
 - ii. From 2nd year onwards: 10%
- b) For the project using air cooled condenser:
 - i. During first year of operation: 13%
 - ii. From 2nd year onwards : 12%

36. Station Heat Rate

The Station Heat Rate for biomass power projects shall be:

- a) For projects using travelling grate boilers: 4200 kCal/kWh
- b) For projects using AFBC boilers: 4125 kCal/ kWh

37. Operation and Maintenance Expenses

(1) Normative O&M expenses for the first year of the Control period (i.e. FY

2017-18 shall be Rs. 40 Lakh per MW.

(2) Normative O&M expenses allowed at the commencement of the Control Period (i.e. FY 2017-18) under these Regulations shall be escalated at the rate of 5.72% per annum.

38. Fuel Mix

- (1) The biomass power plant shall be designed in such a way that it uses different types of non-fossil fuels available within the vicinity of biomass power project such as crop residues, agro-industrial residues, forest residues etc. and other biomass fuels as may be approved by MNRE.
- (2) The Biomass Power Generating Companies shall ensure fuel management plan to ensure adequate availability of fuel to meet the respective project requirements.

39. Use of Fossil Fuel

The use of fossil fuels shall not be allowed.

Provided that for the biomass power projects commissioned on or before 31.03.2017, the use of fossil fuels to the extent of 15% in terms of calorific value on annual basis shall be allowed for the tariff period from the date of commissioning.

40. Monitoring Mechanism for the use of fossil fuel

- (1) The Project developer shall furnish a monthly fuel usage statement and monthly fuel procurement statement duly certified by Chartered Accountant to the beneficiary (with a copy to appropriate agency appointed by the Commission for the purpose of monitoring the fossil and non-fossil fuel consumption) for each month, along with the monthly energy bill.
- (2) Non-compliance with the condition of fossil fuel usage by the project developer,

during any financial year, shall result in withdrawal of applicability of tariff as per these Regulations for such biomass based power project.

41. Calorific Value

The Calorific Value of the biomass fuel used for the purpose of determination of tariff shall be at 3100 kCal/kg.

42. Fuel Cost

Biomass fuel price during first year of the Control Period (i.e. FY 2017-18) shall be as specified in the table below and shall be escalated at 5% to arrive at the base price for subsequent years of the Control Period, unless specifically reviewed by Commission. For the purpose of determining levellized tariff, a normative escalation factor of 5% per annum shall be applicable on biomass prices.

State	FY2017-18 (Rs./MT)
Andhra Pradesh	2873.22
Haryana	3270.39
Maharashtra	3344.85
Punjab	3420.56
Rajasthan	2854.60
Tamil Nadu	2826.05
Uttar Pradesh	2922.86
Other States	3073.05

<u>Chapter 6: Technology specific parameters for Non-fossil fuel based</u> <u>Cogeneration Projects</u>

43. Technology Aspect

A project shall qualify as a non-fossil fuel based Co-generation project, if it is in accordance with the eligibility criteria as specified under Regulation 4(d).

44. Capital Cost

The normative capital cost for the non-fossil fuel based cogeneration projects shall be Rs. 492.5 Lakh/MW for high boiler pressure projects for the first year of Control Period (i.e. FY 2017-18), and will remain valid for the entire duration of the control period unless reviewed earlier by the Commission.

45. Plant Load Factor

- (1) For the purpose of determining fixed charge, the PLF for non- fossil fuel based cogeneration projects shall be computed on the basis of plant availability for number of operating days considering operations during crushing season and off-season as specified under clause (2) below and load factor of 92%.
- (2) The number of operating days for different States shall be as follows:

State	Operating Days	Plant Load Factor (%)
Uttar Pradesh and Andhra Pradesh	120 days (crushing) + 60 days (off-season) =180days operating days	45%
Tamil Nadu and Maharashtra	180 days (crushing) + 60 days (off-season) = 240 days operating days	60%
Other States	150 days (crushing) + 60 days (off-season) = 210 days operating days	53%

46. Auxiliary Consumption

The auxiliary power consumption factor shall be 8.5% for the computation of tariff.

47. Station Heat Rate

The Station Heat Rate of 3600 kCal / kWh for power generation component alone shall be considered for computation of tariff for non-fossil fuel based Cogeneration projects.

48. Calorific Value

The Gross Calorific Value for Bagasse shall be considered as 2250 kCal/kg. For the use of biomass fuels other than bagasse, calorific value as specified under Regulation 41 shall be applicable.

49. Fuel Cost

(1) The price of Bagasse for first year of the Control Period (i.e. FY 2017-18) shall be as specified in the table below and shall be escalated at 5% to arrive at the base price for subsequent years of the Control Period, unless specifically reviewed by Commission. For the purpose of determining levellized tariff, a normative escalation factor of 5% per annum shall be applicable on bagasse prices.

State	Bagasse Price FY2017-18 (Rs. / MT)
Andhra Pradesh	1622.16
Haryana	2307.26
Maharashtra	2273.75
Punjab	2030.49
Tamil Nadu	1747.51
Uttar Pradesh	1809.57
Other States	1964.71

(2) For use of biomass other than bagasse in co-generation projects, the biomass prices as specified under Regulation 42 shall be applicable.

50. Operation and Maintenance Expenses

- (1) Normative O&M expenses during first year of the Control period (i.e. FY 2017-18) shall be Rs. 21.13 Lakh per MW.
- (2) Normative O&M expenses allowed at the commencement of the Control Period (i.e. FY 2017-18) under these Regulations shall be escalated at the rate of 5.72% per annum.

Chapter 7: Technology specific parameters for Solar PV Power Project

51. Technology Aspects

Norms for Solar Photovoltaic (PV) power projects under these Regulations shall be applicable for grid connected PV systems that directly convert solar energy into electricity and are based on technologies such as crystalline silicon or thin film etc. as may be approved by MNRE.

52. Capital Cost

The Commission shall determine only project specific capital cost and tariff based on prevailing market trends for Solar PV projects.

53. Capacity Utilisation Factor

The CUF for Solar PV project shall be 19%.

Provided that the Commission may deviate from above norm in case of project specific tariff determination in pursuance of Regulation 7 and Regulation 8.

54. Operation and Maintenance Expenses

The Commission shall determine only project specific O&M expenses based on prevailing market trends for Solar PV project.

55. Auxiliary Consumption

The auxiliary consumption factor shall be 0.25% of gross generation.

Provided that the Commission may deviate from the above norm in case of project specific tariff determination in pursuance of Regulation 7 and Regulation 8.

Chapter 8: Technology specific parameters for Solar Thermal Power Project

56. Technology Aspects

Norms for Solar thermal power under these Regulations shall be applicable for Concentrated solar power (CSP) technologies viz. line focusing or point MNRE, focusing, as may be approved by and uses direct concentrating it to reach higher energy sunlight, several times densities and thus higher temperatures whereby the heat generated is used to operate a conventional power cycle to generate electricity.

57. Capital Cost

The Commission shall determine only project specific capital cost and tariff based on prevailing market trends for Solar Thermal project.

58. Capacity Utilisation Factor

The CUF for solar thermal project shall be 23%.

Provided that the Commission may deviate from the above norm in case of project specific tariff determination in pursuance of Regulation 7 and Regulation 8.

59. Operation and Maintenance Expenses

The Commission shall determine only project specific O&M expenses based on prevailing market trends for Solar Thermal project.

60. Auxiliary Consumption

The auxiliary consumption factor shall be 10%.

Provided that the Commission may deviate from the above norm in case of project specific tariff determination in pursuance of Regulation 7 and Regulation 8.

Chapter 9: Technology specific parameters for Biomass Gasifier Power Projects

61. Technology Aspect

The norms for tariff determination specified hereunder are for biomass gasifier based power projects.

62. Capital Cost

The normative capital cost for the biomass gasifier power projects based on Rankine cycle shall be Rs. 592.88 Lakh/MW (FY 2017-18 during first year of Control Period) and shall be same for subsequent years unless specifically ordered by the Commission. After taking into account of capital subsidy of Rs 150.00 lakhs/MW, net project cost shall be Rs. 442.88 Lakh/MW for FY 2017-18.

63. Plant Load Factor

Threshold PLF for determining fixed charge component of tariff shall be 85%.

64. Auxiliary Consumption

The auxiliary power consumption factor shall be 10% for the determination of tariff.

65. Specific fuel consumption

Normative specific fuel consumption shall be 1.25 kg per kWh.

66. Operation and Maintenance Expenses

(1) Normative O&M expenses for the first year of the Control period (i.e. FY 2017-18) shall be Rs. 52.83 Lakh per MW

(2) Normative O&M expenses allowed at the commencement of the Control Period (i.e. FY 2017-18) under these Regulations shall be escalated at the rate of 5.72% per annum.

67. Fuel Mix

- (1) The Biomass Gasifier based power plant shall be designed in such a way that it uses different types of non-fossil fuels available within the vicinity of biomass power project such as crop residues, agro- industrial residues, forest residues etc. and other biomass fuels as may be approved by MNRE.
- (2) The Biomass Gasifier based Power Generating Companies shall ensure fuel management plan to ensure adequate availability of fuel to meet the respective project requirements.

68. Fuel Cost

Biomass fuel price for the Biomass gasifier based power project applicable for FY 2017-18 shall be the same as for Biomass based power project (Rankine cycle) as mentioned in Regulation 42.

Chapter 10: Technology specific parameters for Biogas based Power Projects

69. Technology Aspect

The norms for tariff determination specified hereunder are for grid connected biogas based power projects that uses 100% Biogas fired engine, coupled with Biogas technology for co-digesting agriculture residues, manure and other bio waste as may be approved by MNRE.

70. Capital Cost

The normative capital cost for the biogas based power shall be Rs. 1185.76 Lakh/MW (FY 2017-18 during first year of Control Period) and will remain valid for the entire duration of the control period unless reviewed earlier by the Commission After taking into account of capital subsidy of Rs. 300 Lakhs/MW, net project cost is Rs. 885.76 Lakh/MW.

71. Plant Load Factor

Threshold PLF for determining fixed charge component of Tariff shall be 90%.

72. Auxiliary Consumption

The auxiliary power consumption factor shall be 12% for the determination of tariff.

73. Operation and Maintenance Expenses

- (1)Normative O&M expenses for the first year of the Control period i.e. FY 2017-18 shall be Rs. 52.83 Lakh per MW
- (2) Normative O&M expenses allowed at the commencement of the Control Period (i.e. FY 2017-18) under these Regulations shall be escalated at the rate of 5.72% per annum.

74. Specific Fuel Consumption

Normative specific fuel consumption shall be 3 kg of substrate mix per kWh.

75. Fuel Cost (Feed stock Price)

Feed stock price during first year of the Control Period (i.e. FY 2017-18) shall be Rs. 1228.72 /MT and shall be escalated at 5% to arrive at the base price for subsequent years of the Control Period, unless specifically reviewed by Commission. For the purpose of determining levellized tariff, a normative escalation factor of 5% per annum shall be applicable.

<u>Chapter 11: Technology specific parameters for Power Projects using Municipal Solid Waste / Refuse Derived Fuel and based on Rankine cycle technology</u>

76. Technology Aspect

The norms for tariff determination specified hereunder are for power projects which use municipal solid waste (MSW) and refuse derived fuel (RDF) and are based on Rankine cycle technology application, combustion or incineration, Bio-methanation, Pyrolysis and High end gasifier technologies.

77. Capital Cost

The Commission shall determine only project specific capital cost and tariff based on prevailing market trends for MSW/RDF projects.

78. Plant Load Factor

(1) Threshold PLF for determining fixed charge component of tariff for the power projects which use MSW and RDF shall be:

	PLF	MSW	RDF
a)	During Stabilisation	65%	65%
	During the remaining period of the first year		
b)	(after stabilization)	65%	65%
c)	From 2 nd year onwards	75%	80%

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

79. Auxiliary Consumption

The auxiliary power consumption for MSW/RDF based power projects shall be 15%.

80. Station Heat Rate

The Station Heat Rate for MSW/RDF based power projects shall be 4200 kcal/kWh.

81. Operation and Maintenance Expenses

The Commission shall determine only project specific O&M expenses based on prevailing market trends for MSW/RDF projects.

82. Calorific Value

The Calorific Value of the RDF fuel used for the purpose of determination of tariff shall be at 2500 kcal/kg.

83. Fuel Cost

RDF price during FY 2017-18 shall be Rs 1,800 per MT and shall be escalated at 5% to arrive at the base price for subsequent years of the Control Period, unless specifically reviewed by Commission. For the purpose of determining levellized tariff, a normative escalation factor of 5% per annum shall be applicable.

No fuel cost shall be considered for determination of tariff for the power projects using MSW.

Chapter 12: Miscellaneous

84. Deviation from norms

Tariff for sale of electricity generated from a generating station based on renewable energy sources, may also be agreed between a generating company and a licensee, in deviation from the norms specified in these regulations subject to the conditions that the levellised tariff over the useful life of the project on the basis of the norms in deviation does not exceed the levellised tariff calculated on the basis of the norms specified in these regulations.

85. Power to Relax

The Commission may by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected, may relax any of the provisions of these Regulations on its own motion or on an application made before it by an interested person.

Sd/-

(Sanoj Kumar Jha) Secretary

APPENDIX

Form-1.1: Form Template for (Wind Power or Small Hydro Project or Solar PV/Solar thermal)

S.No.	Assumption Head	Sub-Head	Sub-Head(2)	Unit	Parameter
1.	Power Generation	Capacity	Installed Power Generation Capacity Capacity Utilization Factor Commercial Operation Date Useful Life	MW % nnn/yyyy years	
2.	Project Cost	Capital Cost/MW	Normative Capital Cost Capital Cost Capital Subsidy, If any Net Capital Cost	Rs. Lakh/MW Rs. Lakh Rs. Lakh Rs. Lakh	
3.	Financial Assumptions	Debt Equity Debt Component	Tariff Period Debt Equity Total Debt Amount Total Equity Amount Loan Amount Moratorium Period Repayment Period (incld Moratorium)	Years % % % Rs. Lakh Rs. Lacs Years Years	
		Equity Component Depreciation	Interest Rate Equity amount Return on Equity for first 10 years Return on Equity 11th year onwards Discount Rate Depreciation Rate for 1st 12 yrs. Depreciation Rate 13th years onward Generation Based Incentives.	Rs. Lacs % p.a. % p.a. % p.a. %	
		Incentives	If any Period for GBI	Years	
#:	Operation & Maintenance	Normative O&M expense O&M expense per annum Escalation factor for O&M expense		Rs. Lakh/MW Rs. Lakh	
5	Working Capital	O&M expense Maintenance Spare Receivables Interest on Working Capital	(%) of O&M expenses)	Month s % Month s % p.a.	

Form-1.2: Form Template for (Biomass Power, Municipal Solid Waste, Refuse Derived Fuel or Non-fossil fuel based Cogen)

S.No.	Assumption Head	Sub-Head	Sub-Head(2)	Unit	Parameter			
L	Power Generation	Capacity	Installed Power Generation Capacity Auxiliary Consumption factor PLF (during stablisation upto 6 months) PLF (during 1st year stablisation) PLF (2nd year onwards) Commercial Operation Date Useful Life	nonths) PLF (during 1st				
28	Project Cost	Capital Cost/MW	Normative Capital Cost Capital Cost Capital Subsidy, If any Net Capital Cost	Rs. Lakh/MW Rs. Lakh Rs. Lakh Rs. Lakh				
35.	Financial Assumptions	Debt Equity Debt Component Equity Component Depreciation Incentives	Tariff Period Debt Equity Total Debt Amount Total Equity Amount Loan Amount Moratorium Period Repayment Period (incld Moratorium) Interest Rate Equity amount Return on Equity for first 10 years Return on Equity 11th year onwards Discount Rate Depreciation Rate for 1st 12 yrs. Depreciation Rate 13th years anward Generation Based Incentives, If any Period for GBI	Rs. Lakh Rs. Lacs Years Years Years No. Lacs No. p.a. No. p.a. No. p.a. No. p.a. No. p.a. Year				
4 77	Operation & Mamienance	Normative O&M expense O&M expense per annum Escalation factor for O&M expense		Rs. Lakh-MW Rs. Lakh				

-	Working Capital	O&M expense Maintenance Spare Receivables Interest on Working Capital	(%) of O&M expenses)	Mont lis "e Mont lis "e p.a.
[6.	Fuel related assumptions	Station Heat Rate Fuel types & mix	During stabilisation post stabilisation Biomass fuel type-1 Biomass fuel type-2 Minicipal Solid Waste fuel Refuse Derived Fuel fossil fuel (coal) GCV of Biomass fuel type-1 GCV of Biomass fuel type-2 GCV of Municipal Solid Waste fuel GCV of Refuse Derived Fuel GCV of Refuse Derived Fuel GCV of Refuse Derived Fuel GCV of fossil fuel (coal) Biomass Price (fuel type-1)/yr-1 Biomass Price (fuel type-2)/yr-1 Municipal Solid Waste Price /yr-1 Refuse Derived Fuel Price /yr-1 fossil fuel price (coal) /yr-1 fuel price escalation factor	kCal-Kwh kCal-Kwh % % % % % % % kCal-Kwh kCal-Kwh kCal-Kwh kCal-Kwh kCal-Kwh RS-MT

Form-2.1: Form Template for (Wind Power or Small Hydro Project or Solar PV/Solar thermal): Determination of Tariff Components

Units Generation	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Installed Capacity	MW																									I
Net Generation	MU																									I
Tariff Components (Fixed charge)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
O&M Expenses	Rs Lakh																									1
Depreciati on	Rs Lakh																									1
Interest on term loan	Rs Lakh																									
Interest on working Capital	Rs Lakh																									1
Return on Equity	Rs Lakh																									1
Total Fixed Cost	Rs Lakh																									
	•	•	•	•	•				•		•	•	•	•	•	•		•		•		•		•		
Per Unit Tariff components	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
PU O&M Expenses	Rs/kWh																									
PU Depreciation	Rs/kWh																									
PU Interest on term loan	Rs/kWh																									
PU Interest on working Capital	Rs/kWh																									
PU Return on Equity	Rs/kWh																									1
PU Tariff Components	Rs/kWh																									
	•																									
Levellised Tariff	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Discount Factors																										
Discounted Tariff components	Rs/kWh																									
Levellised Tariff	Rs/kWh												•			•	•		•							

Form-2.2: Form Template for (Biomass Power, Municipal Solid Waste, Refuse Derived Fuel or Non-fossil fuel based Cogen): Determination of Tariff Components

Levellised Tariff (total)

Units Generation	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Installed Capacity	MW																									
Net Generation	MU																									
Tariff Components (Fixed charge)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
O&M Expenses	Rs Lakh																									
Depreciation	Rs Lakh																									
Interest on term loan	Rs Lakh																									
Interest on working Capital	Rs Lakh																									1
Return on Equity	Rs Lakh																									
Total Fixed Cost	Rs Lakh																									
			•	•			•					'		'				'						'		
Tariff Components (Variable charge)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Biomass fuel type-1	Rs Lakh																									
Biomass fuel type-2	Rs Lakh																									1
Fossil fuel (coal)	Rs Lakh																									
Municipal Solid Waste	Rs Lakh																									1
Refuse Derived Fuel	Rs Lakh																									
Sub-total (Fuel Costs)	Rs Lakh																									
Fuel cost allocable to power	%																									1
Total Fuel Costs	Rs Lakh																									
Per Unit Tariff components (fixed)	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
PU O&M Expenses	Rs/kWh																									
PU Depreciation	Rs/kWh																									1
PU Interest on term loan	Rs/kWh																									
PU Interest on working Capital	Rs/kWh																									
PU Return on Equity	Rs/kWh																									1
PU Tariff Components (Fixed)	Rs/kW h																									
PU Tariff Components (Variable)	Rs/kW h																									
PU Tariff Components (Total)	Rs/kW h																									
. , ,																										
Levellised Tariff	Unit	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6	Yr-7	Yr-8	Yr-9	Yr-10	Yr-11	Yr-12	Yr-13	Yr-14	Yr-15	Yr-16	Yr-17	Yr-18	Yr-19	Yr-20	Yr-21	Yr-22	Yr-23	Yr-24	Yr-25
Discount Factors																										11.11
Discounted Tariff components (fixed)	Rs/kWh																									
Discounted Tariff components (variable)	Rs/kWh																									
Discounted Tariff components (total)	Rs/kWh																									<u> </u>
Levellise d Tariff (fixed)	Rs/kW h			l			l																			