



# भारत का राजपत्र The Gazette of India

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EXTRAORDINARY

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प्राधिकार से प्रकाशित

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विद्युत मंत्रालय

संकल्प

नई दिल्ली, 3 अगस्त, 2017

**ग्रिड कनेक्टिड सोलर पीवी विद्युत परियोजनाओं से टैरिफ आधारित प्रतिस्पर्धात्मक बोली प्रक्रिया के ज़रिए बिजली की खरीद के लिए दिशा-निर्देश**

संख्या 23/27/2017-R&amp;R.— 1.प्रस्तावना

## 1.1. पृष्ठभूमि

**1.1.1.** भारत में विद्युत उद्योग में प्रतिस्पर्धा को प्रोत्साहित करना विद्युत अधिनियम, 2003, ('अधिनियम') के महत्वपूर्ण लक्ष्यों में से एक है। वितरण लाइसेंसियों के लिए बिजली की खरीद लागत सबसे बड़ा लागत घटक है। वितरण लाइसेंसियों द्वारा बिजली की प्रतिस्पर्धात्मक खरीद से विद्युत की खरीद की समग्र लागत में कमी आने की संभावना है और इससे विद्युत बाजारों के विकास में मदद मिलेगी। अंतर्राष्ट्रीय स्तर पर, बिजली के थोक बाजारों में प्रतिस्पर्धा से विद्युत के दामों में कमी आयी है और उपभोक्ताओं को महत्वपूर्ण लाभ पहुंचा है।

**1.1.2.** अधिनियम की धारा 61 और 62 एक समुचित आयोग द्वारा शुल्क नियमन और उत्पादन, पारेषण, संचालन शुल्क और बिजली की खुदरा बिक्री के निर्धारण की व्यवस्था करती है। विद्युत अधिनियम 2003 की धारा 178(2) के साथ पठित धारा 61 के परन्तुक के अनुसार नवीकरणीय ऊर्जा स्रोतों से टैरिफ निर्धारण के लिए नियम एवं शर्तें तय करने के लिए केन्द्रीय विद्युत नियामक आयोग (सीईआरसी) द्वारा विनियम, 2012 बनाए गए। इसके अतिरिक्त धारा 63 में कहा गया है कि—

*“धारा 62 में किसी बात के होते हुए भी, समुचित आयोग शुल्क को मंजूरी दे सकता है, बशर्ते शुल्क का निर्धारण केन्द्र सरकार द्वारा जारी दिशा-निर्देशों के अनुसार पारदर्शी बोली प्रक्रिया के ज़रिए किया गया हो।”*

**1.1.3** विद्युत अधिनियम की धारा 10 में प्रावधान है कि उत्पादक कंपनी अधिनियम और इसके अंतर्गत बनाए गए नियमों और विनियमों के अनुसार किसी लाइसेंसि को विद्युत आपूर्ति कर सकती है और धारा 42 की उपधारा (2) के अंतर्गत बनाए गए नियमों के अधीन, किसी उपभोक्ता को विद्युत आपूर्ति कर सकती है।

**MINISTRY OF POWER****RESOLUTION**

New Delhi, the 3rd August, 2017

**Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects****No. 23/27/2017-R&R.—1. PREAMBLE****1.1. Background**

**1.1.1.** Promotion of competition in the electricity industry in India is one of the key objectives of the Electricity Act, 2003 ('Act'). Power purchase costs constitute the largest cost element for distribution licensees. Competitive procurement of electricity by the distribution licensees is expected to reduce the overall cost of procurement of power and facilitate development of power markets. Internationally, competition in wholesale electricity markets has led to reduction in prices of electricity and in significant benefits for consumers.

**1.1.2.** Section 61 & 62 of the Act provide for tariff regulation and determination of tariff of generation, transmission, wheeling and retail sale of electricity by the Appropriate Commission. As per proviso of Section 61 read with Section 178(2) of the Electricity Act, 2003, the Terms and Conditions for Tariff determination from Renewable Energy Sources Regulations, 2012 were framed by the Central Electricity Regulatory Commission (CERC) in February, 2012. Further, section 63 of the Act states that –

*"Notwithstanding anything contained in section 62, the Appropriate Commission shall adopt the tariff if such tariff has been determined through transparent process of bidding in accordance with the guidelines issued by the Central Government."*

**1.1.3.** Section 10 of the Electricity Act provides that a generating company may supply electricity to any licensee in accordance with the Act and rules and regulations made there under and may, subject to the regulations made under sub-section (2) of Section 42, supply electricity to any consumer.

**1.1.4.** The National Tariff Policy, 2016 formulated by the Ministry of Power, has specific guidance on purchase of power generated from renewable energy sources. As per Section 6.4(2), *"States shall endeavor to procure power from renewable energy sources through competitive bidding to keep the tariff low, except from the waste to energy plants. Procurement of power by Distribution Licensee from renewable energy sources, from Solar PV Power Projects above the notified capacity, shall be done through competitive bidding process, from the date to be notified by the Central Government. However, till such notification, any such procurement of power from renewable energy sources projects, may be done under Section 62 of the Electricity Act, 2003."*

**1.2. Objectives****1.2.1. The specific objectives of these Guidelines are as follows:**

- a) To promote competitive procurement of electricity from solar PV power plants, by distribution licensees, to protect consumer interests;
- b) To facilitate transparency and fairness in procurement processes / and to provide for a framework for an Intermediary Procurer as an Aggregator/Trader for the inter-state/intra-state sale-purchase of long-term power.
- c) To provide standardization and uniformity in processes and a risk-sharing framework between various stakeholders, involved in the solar PV power procurement, thereby encouraging investments, enhanced bankability of the Projects and profitability for the investors.

**2. SCOPE OF THE GUIDELINES****2.1. Applicability of Guidelines:**

**2.1.1.** These Guidelines are being issued under the provisions of Section 63 of the Electricity Act, 2003 for long term procurement of electricity by the 'Procurers', from grid-connected Solar PV Power Projects ('Projects'), having size of **5 MW and above**, through competitive bidding.

**Explanation:**

- a) '**Procurer**': The term 'Procurer', as the context may require, shall mean the distribution licensees, or the Authorized Representative(s), or an Intermediary Procurer.
- b) '**Authorised Representative**' of the Procurer: In cases, where the Power Purchase Agreement (PPA) signing agency and the agency carrying out the tendering/bidding process are different, the agency carrying out the

tendering / bidding process shall be deemed to be the Authorized Representative of the 'Procurer' and will on behalf of the Procurer be responsible for fulfilling all the obligations imposed on the 'Procurer' during the bidding phase, in accordance with these Guidelines.

**c) 'Intermediary Procurer' & 'End Procurer':**

- i.** In some cases, an intermediary, between the distribution licensees and the generator ('**Solar Power Generator**'), may be required either to aggregate the solar power purchased from different Solar Power Generators and sell it to the distribution licensee, or to enhance the credit profile. In such cases, the "Procurer" would be a trader, buying power from the Solar Power Generators and selling the same to one or more distribution licensees, such distribution licensees shall be the "End Procurer" and the trader shall be "Intermediary Procurer" for the purpose of these Guidelines.
- ii.** The Intermediary Procurer shall enter into a PPA with the Solar Power Generator and also enter into a Power Sale Agreement (**PSA**) with the End Procurer. The PSA shall contain the relevant provisions of the PPA on a back to back basis. The trading margin, as notified by the Appropriate Commission (or in the absence of such notification, as mutually decided between the Intermediary Procurer and the End Procurer), shall be payable by the End Procurer to the Intermediary Procurer.
- iii.** In such cases, as long as the Intermediary Procurer has followed these Guidelines for procurement of solar power, the End Procurer shall be deemed to have followed these Guidelines for procurement of solar power.

**2.1.2.** Unless explicitly specified in these Guidelines, the provisions of these Guidelines shall be binding on the Procurer/ Intermediary Procurer/ End Procurer and the Authorised Representative of the Procurer. The process to be adopted in event of any deviation proposed from these Guidelines is specified in Clause 18 of these Guidelines.

**2.2. Appropriate Commission:**

**2.2.1.** Subject to the provisions of the Act:

- a)** In case of a single distribution licensee being the Procurer, the Appropriate Commission, for the purpose of these bidding Guidelines, shall be the State Electricity Regulatory Commission of the concerned State where the distribution license is located.
- b)** In case of combined procurement where the distribution licensees are located in more than one State, the Appropriate Commission for the purpose of these bidding Guidelines, shall be the Central Electricity Regulatory Commission.
- c)** For cases involving sale of power from Central Generating Stations, the Appropriate Commission shall be the Central Electricity Regulatory Commission.

**3. PREPARATION FOR INVITING BID AND PROJECT PREPAREDNESS**

**3.1. Conditions to be met by Procurer**

The Procurer shall meet the following conditions:

**3.1.1. Bid Documentation:**

- a)** Prepare the bid documents in accordance with these Guidelines and Standard Bidding Documents (**SBDs**) [consisting of Model Request for Selection (**RfS**) Document, Model Power Purchase Agreement and Model Power Sale Agreement], notified by the Central Government, except as provided in sub clause (c) below.
- b)** Inform the Appropriate Commission about the initiation of the bidding process.
- c)** Seek approval of the Appropriate Commission for deviations, if any, in the draft RfS draft PPA, draft PSA (if applicable) from these Guidelines and/ or SBDs, in accordance with the process described in Clause 18 of these Guidelines.
  - i.** However, till the time the SBDs are notified by the Central Government, for purpose of clarity, if the Procurer while preparing the draft RfS, draft PPA, draft PSA and other Project agreements provides detailed provisions that are consistent with the Guidelines, such detailing will not be considered as deviations from these Guidelines even though such details are not provided in the Guidelines.
  - ii.** Further, in case of an ongoing bidding process, if the bids have already been submitted by bidders

prior to the notification of these Guidelines and/or SBDs, then if there are any deviations between these Guidelines and/or the SBDs and the proposed RfS, PPA, PSA (if applicable), the RfS, PPA and the PSA shall prevail.

- d) Procure the following clearances, as relevant:
- i. In case of procurement from Projects to be located at a site to be specified by the Procurer, clearance by the relevant authority of the draft land lease or other land related agreements consistent with the draft PPA, draft PSA and other Project agreements.
  - ii. Clearance by the End Procurer of the draft RfS, PPA and PSA having details specific to the proposed procurement.
  - iii. clearance by the agency developing the Solar Park [**‘Solar Power Park Developer’ (SPPD)**] for draft Implementation Agreement, consistent with the draft PPA and the draft PSA, in case of a procurement from Projects to be located in Solar Parks specified by the Procurer.

### 3.1.2. Site-related Project preparatory activities including clearances:

In order to ensure timely commencement of supply of electricity being procured and to convince the bidders about the irrevocable intention of the Procurer, it is necessary that various Project preparatory activities as mentioned in Clause 3.2.1 and Clause 3.2.2 of these Guidelines are completed in time.

### 3.2. Arrangements related to site

As specified in the bidding documents to be issued by the Procurers, the Project may be set up either at the Project site specified by the Procurer, or at the Project site selected by the Solar Power Generator.

**3.2.1. Project site specified by the Procurer:** The Procurer may choose to locate the Project at a specified site and the same may be specified by the Procurer in the bidding documents. In such cases, to ensure timely commencement of supply of electricity, the Procurer shall ensure that various Project preparatory activities as indicated below have been initiated by the Procurer before issuance of the RfS. These activities would be required to be completed prior to the PPA being executed.

- a) Land: Identification of 100% (hundred per cent) land and provision of documents/ agreements to indicate in-principle availability of at least 25% (twenty-five per cent) of land at the initiation of bidding, and possession of 90% (ninety per cent) of land within 1 (one) months of the execution of the PPA and the balance 10% (ten per cent), within 2 (two) months thereafter.
- b) No Objection Certificate (NOC)/ Environmental Clearance (if applicable) for the Project.
- c) Forest Clearance (if applicable) for the land for the Project.
- d) Approval for Water from the concerned authority (if applicable) required for the Project.
- e) A letter from the STU/ CTU confirming technical feasibility of connectivity of plant to STU/ CTU substation, except for the cases where the concerned STU / CTU has notified, sub-station wise spare capacities for feasibility of connectivity.

**3.2.2. Project site specified by the Procurer in a Solar Park:** The Procurer may choose to locate the Project in a concentrated zone characterized with proper infrastructure and access to amenities (**‘Solar Park’**) and the same may be specified by the Procurer in the bidding documents. The Solar Park shall be developed as per the “Guidelines for Development of Solar Parks” issued by MNRE as amended from time to time. Notwithstanding this, to ensure timely commencement of supply of electricity, the Procurer shall ensure that various Project preparatory activities as indicated above in clause 3.2.1. (a) to (e), have been initiated and completed by the concerned SPPD as per the timelines mentioned therein. In addition to above, the responsibilities of the Solar Power Park Developer shall flow from the “Guidelines for Development of Solar Parks”, developed by MNRE and Implementation Support Agreement, which defines the relationship between the Solar Power Park Developer and the Solar Power Generator.

**3.2.3. Project site selected by the Solar Power Generator:** In case the Procurer does not specify a site or in a Solar Park and the Project site is selected by the Solar Power Generator, to ensure timely completion and commencement of supply of power, the bidder would be required to submit documents in respect of matters as mentioned below, as per the time schedule specified in the bidding documents:

- a) Land acquisition: Identification of the 100% (hundred per cent) land at the time of bid submission and within 7 (seven) months of the execution of the PPA, submission of documents/ Lease Agreement to establish possession/ right to use 100 % (hundred per cent) of the required land in the name of the Solar Power Generator or its Affiliate. In case the land is in the name of Affiliate, the land should be

transferred in the name of Solar Power Generator prior to Scheduled Commissioning Date (SCD). Wherever leasing of private land is involved, the lease should allow transfer of land to the lenders or Procurer, in case of default of the Solar Power Generator.

- b) No Objection Certificate (NoC)/Environmental clearance (if applicable) for the Project.
- c) Forest Clearance (if applicable) for the land for the Project.
- d) Approval for Water from the concerned authority (if applicable) required for the Project.
- e) A letter from State Transmission Utility (STU)/Central Transmission Utility (CTU) [or Solar Power Park Developer, in case of selected site being a solar park] confirming technical feasibility of connectivity of the plant to STU/CTU substation. If the Project site is located in the same State as the Procurer/End Procurer, State Govt. shall endeavor to provide necessary support to facilitate the connectivity of the plant to STU/CTU substation.

#### 4. BID STRUCTURE

**4.1. Bid Package:** The bids will be designed in terms of a package. The minimum size of a package should be 50 MW, in order to have economies of scale. Notwithstanding this, on due consideration of availability of land and transmission facility, smaller bid packages can be kept in case of North-Eastern States, Special Category States, and Projects outside Solar Parks. The bidder has to quote for an entire package. The Procurer may also choose to specify the maximum capacity that can be allotted to a single bidder including its Affiliates<sup>1</sup> keeping in mind factors such as economies of scale, land availability, expected competition and need for development of the market.

**4.2. Bids in Power/Energy Terms:** The Procurer may choose to invite the bids in (a) Power Capacity (MW) terms or (b) Energy Quantity (kWh or million units i.e. MU) terms.

**4.3. Bidding Parameters:** For procurement of electricity, the Procurer may opt for either ‘Tariff as Bidding Parameter’ or ‘Viability Gap Funding (VGF) as Bidding Parameter’.

**4.3.1. Tariff as the Bidding Parameter:** In this case, the bidding parameter shall be the tariff quoted by the bidder. The Procurer may select either of the following kinds of tariff based Bidding: (a) fixed tariff in Rs./kWh for 25 (twenty-five) years or more or (b) escalating tariff in Rs./kWh with pre-defined quantum of annual escalations fixed in Rs./kWh and number of years from which such fixed escalation will be provided. The Procurer shall specify that the tariff quoted by the bidder cannot be more than the tariff for grid-connected solar PV power plants, notified by the Appropriate Commission, if any, for the financial year in which the bids are invited. The Procurer may disclose in the RfS, the prevailing incentives like the Generation Based Incentive (GBI) or such other incentives, to the Solar Power Generators.

**4.3.2. VGF as the Bidding Parameter:** It involves a mechanism wherein a pre-determined tariff is offered to the Solar Power Generator along with a financial assistance, to enable the Solar Power Generator to supply power at this tariff. For VGF based Bidding, the Procurer shall specify the following before issuance of RfS: (a) Pre-determined tariff payable to the selected Solar Power Generator for the duration of the PPA and the Maximum amount of Viability Gap Funding (VGF) for the Solar Power Generator(s). The bidders shall have to submit their bids quoting the VGF support required by them. The bidders who do not want to avail the VGF support, may offer in their bids, a discounted tariff, lower than the pre-determined tariff offered by the Procurer, The Procurer is required to specify a suitable VGF safeguard mechanism in the RfS and the Project agreements, to provide a framework for the VGF disbursement agency for recovery of VGF amounts in case the Project is not developed and/or operated in accordance with the Project agreements, duly balancing market practice in terms of lender’s requirements.

#### 5. POWER PURCHASE AGREEMENT

The draft PPA proposed to be entered into with the successful bidder and draft PSA (if applicable) shall be issued along with the RfS. Standard provisions to be incorporated as part of this PPA shall include *inter alia* the following, which, unless otherwise specified herein, shall be provided for, on a back to back basis in the PSA:

**5.1. PPA Period:** As the PPA period influences the tariff by determining the period over which the investment is returned to the investor/ SPD, longer PPA is favoured for lower tariffs. The PPA period should thus be not less than 25 (twenty-five) years from the date of the Scheduled Commissioning Date (SCD). The Solar Power

<sup>1</sup> **Affiliate** in relation to a Company shall mean a person who controls, is controlled by, or is under the common control with such Company. The expression ‘control’ shall mean the ownership, directly or indirectly, of more than 50% of the voting shares of such Company or right to appoint majority Directors.

Generators are free to operate their plants after the expiry of the PPA period in case the arrangements with the land and infrastructure owning agencies, the relevant transmission utilities and system operators so provide. It is hereby clarified that in cases where the Project site is specified by the Procurer to be located either in a Solar Park or otherwise, the responsibility of the Procurers to arrange for the land in terms of Clauses 3.2.1 and 3.2.2 shall be limited for the PPA period.

**5.2. Quantum of Power/ Energy to Be Procured:** The procurement of power could either be in power (MW) terms or in energy (kWh or Million Units, i.e. MU) terms.

**5.2.1. Procurement in Power Terms (MW):**

- a) In case of procurement in power (MW) terms, the range of Capacity Utilisation Factor (CUF) will be indicated in the bidding documents. Calculation of CUF will be on yearly basis. In case the project generates and supplies energy less than the energy corresponding to the minimum CUF, the Solar Power Generator will be liable to pay to the Procurer, penalty for the shortfall in availability below such contracted CUF level. The amount of such penalty will be in accordance with the terms of the PPA, which shall ensure that the Procurer is offset for all potential costs associated with low generation and supply of power under the PPA, subject to a minimum of 25% (twenty-five per cent) of the cost of this shortfall in energy terms, calculated at PPA tariff.
- b) In case the availability is more than the maximum CUF specified, the Solar Power Generator will be free to sell it to any other entity provided first right of refusal will vest with the Procurer(s). In case the Procurer purchases the excess generation, the same may be done at 75% (seventy-five per cent) of the PPA tariff, and provision to this effect shall be clearly indicated in the RfS document.

**5.2.2. Procurement in Energy Terms:** In case of procurement in energy (kWh or Million Units, i.e. MU) terms, and not in power (MW) terms, the range of permissible capacity of the plant in terms of MW(AC) shall be clearly specified by the Procurer in the RfS. The Procurer will also specify the **Contracted Energy Quantity (CEQ)**, including a minimum supply obligation below which the developer will be required to pay damages to the Procurer and a guaranteed energy offtake upto which the Procurer will be bound to purchase all energy generated and supplied by the developer. Any excess generation shall be treated in the same manner as specified in clause 5.2.1(b).

**5.2.3. Repowering:** The Solar Power Generators will be free to re-power their plants from time to time during the PPA duration. However, the Procurer will be obliged to buy power only within the range of CUF (or CEQ, as relevant), specified in the PPA. Any excess generation will be dealt as specified in clause 5.2.1(b) of these Guidelines.

**5.3. Payment Security:** The Procurer shall provide adequate payment security measures, as specified below.

**5.3.1. Scenario 1: Direct Procurement by Procurer from Solar Power Generator:**

The Procurer shall provide payment security to the Solar Power Generator through:

- a) **Revolving Letter of Credit (LC)** of an amount not less than 1 (one) months' average billing from the Project under consideration;
- AND,**
- b) **Payment Security Fund**, which shall be suitable to support payment for at least 3 (three) months' billing of all the Projects tied up with such fund;
  - c) In addition to a) & b) above, the Procurer may also choose to provide **State Government Guarantee**, in a legally enforceable form, ensuring that there is adequate security to the Solar Power Generator, both in terms of payment of energy charges and termination compensation if any.

**5.3.2. Scenario 2: Intermediary-Procurer procures from the Solar Power Generator and sells to the End Procurer:**

**a) Payment Security by Intermediary Procurer to the Solar Power Generator:**

The Intermediary Procurer shall provide payment security to the Solar Power Generator through:

- i. **Revolving Letter of Credit (LC)** of an amount not less than 1 (one) months' average billing from the Project under consideration;
- AND**
- ii. **Payment Security Fund**, which shall be suitable to support payment of at least 3 (three) months' billing of all the Projects tied up with such fund.

**b) Payment Security by End Procurer to Intermediary Procurer:**

The End Procurer shall provide payment security to the Intermediary Procurer through:

- i. **Revolving Letter of Credit (LC)** of an amount not less than 1 (one) months' average billing from the Project(s) under consideration;

AND,

- ii. **State Government Guarantee**, in a legally enforceable form, such that there is adequate security, both in terms of payment of energy charges and termination compensation if any. *[for the purpose of this clause, the Tri-Partite Agreement (TPA) signed between Reserve Bank of India, Central Government and State Government shall qualify as State Government Guarantee covering the security for payment of energy charges]*. The Intermediary Procurer shall ensure that upon invoking this guarantee, it shall at once, pass on the same to the Solar Power Generator, to the extent the payments to the Solar Power Generator in terms of the PPA are due.
- iii. In addition to i) & ii) above, the End Procurer may also choose to provide **Payment Security Fund**, which shall be suitable to support payment of at least 3 (three) months' billing of all the Projects tied up with such fund.

It is hereby clarified that the State Government guarantee shall be invoked only after the Intermediary Procurer has been unable to recover its dues under the PPA by means of the Letter of Credit and the Payment Security Fund, if any.

- 5.4. **Force Majeure:** The PPA shall contain provisions with regard to force majeure definitions, exclusions, applicability and available relief on account of Force Majeure, as per the industry standards.

- 5.5. **Generation Compensation for Offtake Constraints:** The Procurer may be constrained not to schedule power on account of unavailability of the Transmission Infrastructure / Grid or in the eventuality of a Backdown.

**5.5.1. Offtake constraints due to Transmission Infrastructure / Grid Unavailability:**

- a) **Generation Compensation in offtake constraint due to Transmission Infrastructure not complete/ ready (Transmission constraint):** After the scheduled commissioning date, if the plant is ready but the necessary power evacuation/ transmission infrastructure is not ready, for reasons not attributable to the Solar Power Generator, leading to offtake constraint, the provision for generation compensation is as follows:

Transmission Constraint	Provision for Generation Compensation
If the plant is ready but the necessary power evacuation/ transmission infrastructure is not ready, leading to offtake constraint	<p>a) The normative CUF of 19% (nineteen per cent) or committed CUF, whichever is lower, and in cases where the contract is in energy terms, proportionate value of CEQ, for the period of grid unavailability, shall be taken for the purpose of calculation of generation loss. Corresponding to this generation loss, the excess generation by the SPD in the succeeding 3 (three) Contract Years, shall be procured by the Procurer at the PPA tariff so as to offset this loss.</p> <p>b) If the transmission delay is directly attributable to the organization building the transmission network and some penalty is imposed on him, then a part of that penalty may be utilized for compensating the generation loss.</p> <p>The mechanism for compensating the developers will be spelt out in the tender documents.</p> <p><i>Contract Year, shall be as defined in PPA.</i></p>

However, it is clarified that if the plant is ready before SCD, but the offtake is constrained because of inadequate/ incomplete power evacuation infrastructure, no compensation shall be permissible.

- b) **Generation Compensation in offtake constraints due to Grid Unavailability:** During the operation of the plant, there can be some periods where the plant can generate power but due to temporary transmission unavailability the power is not evacuated, for reasons not attributable to the Solar Power

Generator. In such cases the generation compensation shall be addressed by the Procurer in following manner:

Duration of Grid unavailability	Provision for Generation Compensation
Grid unavailability in a contract year as defined in the PPA: (only period from 8 am to 6 pm to be counted):	<p><b>Generation Loss = [(Average Generation per hour during the contract year) × (number of hours of grid unavailability during the contract year)]</b></p> <p><i>Where, Average Generation per hour during the contract year (kWh) = Total generation in the contract year (kWh) ÷ Total hours of generation in the contract year</i></p> <p>The excess generation by the SPD equal to this generation loss shall be procured by the Procurer at the PPA tariff so as to offset this loss in the succeeding 3 (three) Contract Years.</p> <p><i>Contract Year, shall be as defined in PPA.</i></p>

Provided that as an alternative to the mechanism provided above in Clause 5.5.1, the Procurer may choose to provide Generation Compensation, in terms of PPA tariff, for the Generation loss as defined in Clause 5.5.1, and for Grid unavailability beyond 50 hours in a Contract Year as defined in the PPA.

### 5.5.2.

**Offtake constraints due to Backdown:** The Solar Power Generator and the Procurer shall follow the forecasting and scheduling process as per the regulations in this regard by the Appropriate Commission. The Government of India, as per Clause 5.2(u) of the Indian Electricity Grid Code (IEGC), encourages a status of “must-run” to solar power projects. Accordingly, no solar power plant, duly commissioned, should be directed to back down by a Discom/ Load Dispatch Centre (LDC). In case such eventuality of Backdown arises, except for the cases where the Backdown is on account of events like consideration of grid security or safety of any equipment or personnel or other such conditions, the Solar Power Generator shall be eligible for a Minimum Generation Compensation, from the Procurer, in the manner detailed below.

Duration of Backdown	Provision for Generation Compensation
Hours of Backdown during a monthly billing cycle.	<p><b>Minimum Generation Compensation =</b></p> <p><b>50% of [(Average Generation per hour during the month) × (number of backdown hours during the month) × PPA Tariff]</b></p> <p><i>Where, Average Generation per hour during the month (kWh) = Total generation in the month (kWh) ÷ Total hours of generation in the month</i></p>

The Generation Compensation is to be paid as part of the energy bill for the successive month after receipt of Regional Energy Accounts (REA). No Trading Margin shall be applicable on this Generation Compensation. Possible conditions for exclusion of Generation Compensation, on account of Backdown purposes, shall be clearly specified in the RfS and the PPA.

## 5.6. EVENT OF DEFAULT AND THE CONSEQUENCES THEREOF

While detailed provisions with regard to the event of default of the concerned parties and its resulting consequences shall be detailed in the SBDs, this clause lays down the broad principles of contractually dealing with the default of the Solar Power Generator and the Procurers (excluding the Intermediary Procurer).

### 5.6.1. Generator Event of Default and the consequences thereof:

- a) In the event the Solar Power Generator is unable to commission the plant within the stipulated time period, or fails to supply power in terms of the PPA, or assigns or novates any of its rights or obligations contrary to the terms of the PPA, or repudiates the PPA, or effectuates a change in control or shareholding of its promoters in breach of the provisions of the PPA, or commits any other acts or omissions as laid down in the PPA and is also unable to cure any of the aforesaid within the cure



period, as may be provided in the PPA, the Solar Power Generator shall be construed to be in default.

- b) Upon being in default, the Solar Power Generator shall be liable to pay to the Procurer, damages, as detailed in the PPA, The Procurer shall have the right to recover the said damages by way of forfeiture of bank guarantee, if any, without prejudice to resorting to any other legal course or remedy.
- c) In addition to the levy of damages as aforesaid, in the event of a default by the Solar Power Generator, the lenders shall be entitled to exercise their rights of substitution, in accordance with the substitution agreement provided in the PPA and in concurrence with the Procurers. However, in the event the lenders are unable to substitute the defaulting Solar Power Generator within the stipulated period, the Procurer may terminate the PPA and acquire the Project assets for an amount equivalent to 90% of the debt due, failing which, the lenders may exercise their mortgage rights and liquidate the Project assets.

#### **5.6.2. Procurer Event of Default and the consequences thereof:**

- a) If the Procurer is in default on account of reasons including inter alia failure to pay the monthly and/or supplementary bills within the stipulated time period or repudiation of the PPA, the defaulting Procurer shall, subject to the prior consent of the Solar Power Generator, novate its part of the PPA to any third party, including its Affiliates within the stipulated period.
- b) In the event the aforesaid novation is not acceptable to the Solar Power Generator, or if no offer of novation is made by the defaulting Procurer within the stipulated period, then the Solar Power Generator may terminate the PPA and at its discretion require the defaulting Procurer to either (i) takeover the Project assets by making a payment of the termination compensation equivalent to the amount of the debt due and the 150% (one hundred and fifty per cent) of the adjusted equity as detailed in the PPA or, (ii) pay to the Solar Power Generator, damages, equivalent to 6 (six) months, or balance PPA period whichever is less, of charges for its contracted capacity, with the Project assets being retained by the Solar Power Generator.

In the event of termination of PPA, any damages or charges payable to the STU/ CTU, for the connectivity of the plant, shall be borne by the Procurer.

### **5.7. CHANGE IN LAW**

**5.7.1.** In the event a Change in Law results in any adverse financial loss/ gain to the Solar Power Generator then, in order to ensure that the Solar Power Generator is placed in the same financial position as it would have been had it not been for the occurrence of the Change in Law, the Solar Power Generator/ Procurer shall be entitled to compensation by the other party, as the case may be, subject to the condition that the quantum and mechanism of compensation payment shall be determined and shall be effective from such date as may be decided by the Appropriate Commission.

**5.7.2.** In these Guidelines, the term Change in Law shall refer to the occurrence of any of the following events after the last date of the bid submission, including (i) the enactment of any new law; or (ii) an amendment, modification or repeal of an existing law; or (iii) the requirement to obtain a new consent, permit or license; or (iv) any modification to the prevailing conditions prescribed for obtaining an consent, permit or license, not owing to any default of the Solar Power Generator; or (v) any change in the rates of any Taxes which have a direct effect on the Project. However, Change in Law shall not include any change in taxes on corporate income or any change in any withholding tax on income or dividends.

### **6. BIDDING PROCESS**

**6.1.** The Procurer shall call for the bids adopting a single stage bidding process to be conducted through Electronic mode (e-bidding). The Procurers may adopt e-reverse auction if it so desires. E-procurement platforms with a successful track record and with adequate safety, security and confidentiality features will be used. In case of a Solar Park specific Project, intimation about the initiation of the bidding process shall be given by the Procurer to the SPPD. The SPPD has to engage actively in the bidding process by providing all the necessary land and infrastructure related details and making the same available in centralized data rooms accessible to bidders.

**6.2.** The Procurer shall invite the Solar Power Generators to participate in the RfS for installation of Solar Photovoltaic Power Plants in terms of these Guidelines.

**6.3.** The bidding documents including the RfS and the draft PPA shall be prepared by the Procurer in consonance with these Guidelines and the SBDs. The Procurer shall also arrange the access of the bidders to the drafts of Implementation Support Agreement and land related agreements, in case the Project is required to be set up in a Solar Park.

- 6.4.** The Procurer shall publish the RfS notice in at least two national newspapers and its own website to accord wide publicity.
- 6.5.** The Procurer shall provide opportunity for pre-bid conference to the prospective bidders, and shall provide written interpretation of the tender documents to any bidder which shall also be made available to all other bidders. All the concerned parties shall rely solely on the written communication. Any clarification or revision to the bidding documents shall be uploaded on the website of the Procurer for adequate information. In the event of the issuance of any revision or amendment of the bidding documents, the bidders shall be provided a period of at least 7 (days) therefrom, for submission of bids.

## **7. RFS DOCUMENT**

The standard provisions to be provided by the Procurer in the RfS shall include the following:

### **7.1. Bid Responsiveness**

The bid shall be evaluated only if it is responsive and satisfies conditions including *inter-alia* ~

- bidder or any of its Affiliates is not a willful defaulter to any lender
- there is no major litigation pending or threatened against the bidder or any of its Affiliates which are of a nature that could cast a doubt on the ability or the suitability of the bidder to undertake the Project.

### **7.2. Qualification requirements to be met by the bidders:**

#### **7.2.1. Technical Criteria:**

The Government would like to encourage competition by way increased participation. However, in order to ensure proper implementation of the Projects, the Procurer may choose to specify Technical Criteria such as past experience of the bidders etc. Such criteria should be set after an assessment of the number of project developers that are expected to meet the criteria so that an adequate level of competition is achieved.

#### **7.2.2. Financial Criteria:**

##### **a) Net-worth:**

- i.** The Procurer shall specify financial criteria in the form of net-worth as a part of the qualification requirement. The net-worth requirement should be at least 20% (twenty per cent) of the CERC Benchmark Capital Cost, if any, for solar PV power projects for the year in which bids are invited or the estimated project cost.
- ii.** The net worth to be considered for the above purpose will be the cumulative net-worth of the bidding company or consortium together with the networth of those Affiliates of the bidder(s) that undertake to contribute the required equity funding and performance bank guarantees in case the bidder(s) fail to do so in accordance with the RfS.
- iii.** It is clarified that the networth to be considered for this clause will be the total networth as calculated in accordance with the Companies Act.

##### **b) Liquidity:**

It is necessary that the bidder has sufficient cash flow/ internal accruals/ any bank reference to manage the fund requirements for the Project. Accordingly, the Procurer may also stipulate suitable parameters such as annual turnover, internal resource generation, bank references/ line of credit, bidding capacity, etc.

### **7.3. Quantum of the Earnest Money Deposit (EMD)**

Quantum of the Earnest Money Deposit (EMD) in the form of a bank guarantee, to be furnished by the bidders. The EMD shall stand forfeited in the event of failure of the Solar Power Generator to execute the PPA within the stipulated time period.

### **7.4. Compliance of FDI Laws by foreign bidders**

In case a Foreign Company is selected as the successful bidder, it shall comply with all the laws and provisions related to Foreign Direct Investment in India.

## 8. BID SUBMISSION AND EVALUATION

- 8.1.** Formation of consortium by bidders shall be permitted, in which case the consortium shall identify a lead member which shall be the contact point for all correspondences during the bidding process. The Procurer may specify technical and financial criteria, and lock in requirements for the lead member of the consortium.
- 8.2.** The Procurer shall constitute committee for evaluation of the bids (**Evaluation Committee**), with at least three members, including at least one member with expertise in financial matters/bid evaluation.
- 8.3.** The bidders may be required to submit non-refundable processing fee and/or project development fee as specified in the RfS.
- 8.4.** The bidders shall be required to submit separate technical and price bids. The bidders shall also be required to furnish necessary bid-guarantee in the form of an EMD along with the bids.
- 8.5.** The technical bids shall be evaluated to ensure that the bids submitted meet the eligibility criteria set out in the RfS document on all evaluation parameters. Only the bids that meet the evaluation criteria set out in the RfS shall be considered for further evaluation on the price bids.
- 8.6.** To ensure competitiveness, the minimum number of qualified Bidders should be two. If the number of qualified bidders is less than two, even after three attempts of bidding, and the Procurer still wants to continue with the bidding process, the same may be done with the consent of the Appropriate Commission.
- 8.7.** The price bid shall be rejected, if it contains any deviation from the tender conditions. No clarifications shall normally be requested from bidders at this stage.
- 8.8. Bid evaluation methodology to be adopted by the Procurer for evaluating the bids:**
- 8.8.1.** The bid evaluation mechanism shall be as follows, depending upon the tariff structure which has been adopted by the Procurers in terms of these Guidelines:
- a) **In the case of Bidding involving Tariff as the parameter**, the comparison of bids shall be on the basis of the bidding criteria as specified in the RfS, i.e. the fixed tariff or the first year tariff. Ranking of the bidders will start from the bidder quoting the “lowest tariff (L1)”.
- b) **In the case of Bidding involving VGF as the parameter**, the bids shall be evaluated based on VGF support quoted. The bidders will have to submit bids quoting a single positive number in INR required by the bidder as VGF support. The bidders cannot quote negative VGF. The bidders, who quote NIL VGF, may submit their bid by offering a discounted tariff, lower than the pre-determined tariff offered by the Procurer. Ranking of the bidders will start from the bidder quoting the “lowest tariff (L1)” to the bidder quoting “maximum VGF (H1)”.
- 8.9.** The detail procedure for evaluation of the bid and selection of the bidder shall be provided for in the RfS.

## 9. INDICATIVE TIME TABLE FOR BID PROCESS

- 9.1.** In the bidding process, a minimum period of 30 (thirty) days shall be allowed between the issuance of RfS documents and the last date of bid submission. The indicative timetable for the bidding process is indicated in Annexure-I. In normal circumstances, the bidding process is likely to be completed in a period of 120 (one hundred twenty) days.
- 9.2.** The Procurer may give extended timeframe than indicated in the Annexure-I and this shall not be construed as deviation to the Guidelines.

## 10. CONTRACT AWARD AND CONCLUSION

- 10.1.** The PPA shall be signed with the successful bidder/ project company or an SPV formed by the successful bidder.
- 10.2.** After the conclusion of bidding process, the Evaluation Committee constituted for evaluation of RfS bids shall critically evaluate the bids and certify as appropriate that the bidding process and the evaluation has been conducted in conformity to the provisions of the RfS.
- 10.3.** For the purpose of transparency, the Procurer shall, after the execution of the PPA, publicly disclose the name(s) of the successful bidder(s) and the tariff quoted by them together with breakup into components, if any. The public disclosure shall be made by posting the requisite details on the website of the Procurer for at least 30 (thirty) days.
- 10.4.** Subject to provisions of the Act, the distribution licensee or the Intermediary Procurer, as the case, shall approach the Appropriate Commission for adoption of tariffs by the Appropriate Commission in terms of Section 63 of the Act.

## 11. BANK GUARANTEES

The Solar Power Generator shall provide the following bank guarantees to the Procurer in terms of the RfS and the PPA:

- 11.1. Earnest Money Deposit (EMD)**, to be fixed by the Procurer [but not to be more than 2% (two percent) of the Solar PV power project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost], to be submitted in the form of a bank guarantee along with response to RfS.
- 11.2. Performance Bank Guarantee (PBG)**, to be fixed by the Procurer [but not to be more than 4% (four percent), in case of site specified by the Procurer, and 5% (five percent), in case of site selected by the Solar Power Generator, of the Project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost] to be submitted at the time of signing of the PPA. In addition to the other remedies, this PBG can be encashed to recover any damages/dues of the Solar Power Generator in terms of the PPA. It is hereby clarified that the damages/dues recovered by the Intermediary Procurer by encashing the PBG, upon the default of the Solar Power Generator under the PPA, shall be passed on by the Intermediary Procurer to the End Procurer in terms of the PSA.

## 12. FINANCIAL CLOSURE

The Solar Power Generator shall attain the financial closure in terms of the PPA, within 7 (seven) months from the date of execution of the Power Purchase Agreement.

Failing the aforesaid, the Procurer shall encash the PBG unless the delay is on account of delay in allotment of land by the Procurer in terms of Clause 3.2.1 and Clause 3.2.2 or delay in allotment of land by the Government not owing to any action or inaction on the part of the Solar Power Generator or caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by the Procurer, on the sole request of the Solar Power Generator, on payment of a penalty as specified in the PPA. This extension will not have any impact on the SCD. Any penalty paid so, shall be returned to the Solar Power Generator without any interest on achievement of successful commissioning within the SCD.

## 13. MINIMUM PAID UP SHARE CAPITAL TO BE HELD BY THE PROMOTER

- 13.1.** The successful bidder, if being a single company, shall ensure that its shareholding in the SPV/project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 1 (one) year from the COD (as defined in Clause 15), except with the prior approval of the Procurer. In the event the successful bidder is a consortium, then the combined shareholding of the consortium members in the SPV/project company executing the PPA, shall not fall below 51% at any time prior to 1 (one) year from the COD, except with the prior approval of the Procurer. However, in case the successful bidder shall be itself executing the PPA, then it shall ensure that its promoters shall not cede control<sup>2</sup> till 1 (one) year from the COD, except with the prior approval of the Procurer. In this case it shall also be essential that the successful bidder shall provide the information about its promoters and their shareholding to the Procurer before signing of the PPA with Procurer.
- 13.2.** Any change in the shareholding after the expiry of 1 (one) year from the COD can be undertaken under intimation to Procurer.
- 13.3.** In the event the Solar Power Generator is in default to the lender(s), lenders shall be entitled to undertake “Substitution of Promoter” in concurrence with the Procurers.

## 14. COMMISSIONING

### 14.1. Part Commissioning:

Part commissioning of the Project shall be accepted by Procurer subject to the condition that the Minimum Capacity for acceptance of first and subsequent part(s) commissioning shall be 50 MW, without prejudice to the imposition of penalty, in terms of the PPA on the part which is not commissioned. However, the SCD will not get altered due to part-commissioning. Irrespective of dates of part commissioning or full commissioning, the PPA will remain in force for a period of 25 (twenty-five) years from the SCD.

### 14.2. Early Commissioning:

The Solar Power Generator shall be permitted for full commissioning as well as part commissioning of the Project even prior to the SCD. In cases of early part-commissioning, till SCD, the Procurer may purchase the generation till SCD, at 75% (seventy-five per cent) of the PPA tariff. However, in case the entire capacity is commissioned prior to SCD, the Procurer may purchase the generation at PPA Tariff.

<sup>2</sup> The expression ‘control’ shall mean the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such Company or right to appoint majority Directors.

**14.3. Commissioning Schedule:**

The Projects shall be commissioned within a period of 13 (thirteen) months from the date of execution of the PPA. However, Projects with a capacity of 250 MW and above, if being developed outside a Solar park, shall be commissioned within a period of 15 (fifteen) months from the date of execution of the PPA. Delay in commissioning, beyond the Scheduled Commissioning Period shall involve penalties on the Solar Power Generator, as detailed out in PPA. In case of site specified by the Procurer, any delay in handing over land to the Solar Power Generator in accordance with the given timelines, shall entail a corresponding extension in financial closure and scheduled commissioning date, provided that the maximum extension shall be limited to a period of 1 year commencing from the expiry of date of handing over of balance 10% of land in terms of Clause 3.2.1 (a).

**15. COMMERCIAL OPERATION DATE (COD):**

Commercial Operation Date (COD) shall be the date on which the commissioning certificate is issued upon successful commissioning of the full capacity of the Project or the last part capacity of the Project as the case may be.

**16. TRANSMISSION CONNECTIVITY**

**16.1.** The Solar Power Plant shall be designed for inter-connection with (a) a Pooling Substation where other projects also inter-connect prior to the STU / CTU substation or, (b) directly with the STU / CTU substation; through a dedicated transmission line at the appropriate voltage level, as specified by the Procurer. The entity responsible for the construction of the relevant substation and transmission lines shall be clearly specified in the bidding documents. Depending on the implementation arrangements and design of the evacuation system, the capital costs of the transmission lines and substations prior to the STU / CTU substation may either be directly paid by the Solar Power Generator, or paid by the SPPD or another implementation agency and claimed from the Solar Power Generator as directly attributed or apportioned and recovered in lump sum or as payments over the years.

**16.2.** In cases, where the Project site is not specified by the Procurer, the responsibility of getting Transmission Connectivity and Access to the transmission system owned by the STU / CTU will lie with the Solar Power Generator and shall be at the cost of Solar Power Generator.

**16.3.** In cases, where the Project site specified by the Procurer is not in a Solar Park, the Procurer could choose to require the Solar Power Generator to bear the responsibility and cost of getting Transmission Connectivity and Access.

**16.4.** In cases where the Procurer specifies a solar park where the Project is to be located, penalties, fines and charges imposed by the CTU/ STU under any statute or regulation in relation to delay in commissioning of Project shall be payable by the Solar Power Generator to the extent the delay is attributable to the Solar Power Generator and the balance by the Procurer.

**16.5.** The Metering Point, which is the point at which energy supplied to the Procurer shall be measured, shall be the low voltage bus bar of the STU / CTU substation. In case of solar parks, the metering point is the final evacuation STU / CTU substation with which the internal transmission from all the pooling substations is connected. All expenses including wheeling charges and losses between the Project and the Metering Point shall be paid by the Solar Power Generators without any reimbursement by the Procurer. All expenses including wheeling charges and losses in relation to the transmission and distribution beyond the Metering Point shall be borne by the Procurers. Arrangements shall be put in place for either the CTU / STU to bill these expenses directly to the Projects in proportion to their capacity or the normative generation from Projects sharing common infrastructure or to bill the SPPD which may recover the same directly from the Procurer or from the Solar Power Generator who may in turn seek re-imburement from the Procurer.

**17. TECHNICAL SPECIFICATIONS**

Procurers shall promote commercially established and operational technologies to minimize the technology risk and to achieve the commissioning of the Projects. The detailed technical parameters, for Solar PV Power Projects to be selected, shall be specified by MNRE from time to time. The current parameters are indicated in Annexure II.

**18. DEVIATION FROM PROCESS DEFINED IN THE GUIDELINES**

In case there is any deviation from these Guidelines and/or the SBDs, the same shall be subject to approval by the Appropriate Commission. The Appropriate Commission shall approve or require modification to the bid documents within a reasonable time not exceeding 90 (ninety) days.

**19. ARBITRATION**

In the event CERC is the Appropriate Commission, any dispute arises claiming any change in or regarding determination of the tariff or any tariff related matters, or which partly or wholly could result in change in tariff, such dispute shall be adjudicated by the CERC. All other disputes shall be resolved by arbitration under the Indian Arbitration and Conciliation Act, 1996. In the event SERC is the Appropriate Commission, then all disputes shall be adjudicated by the SERC or shall be referred for arbitration by the SERC.

**20. CLARIFICATION AND MODIFICATION TO GUIDELINES**

If any difficulty arises in giving effect to any provision of these Guidelines or interpretation of the Guidelines or modification to the Guidelines, Ministry of New & Renewable Energy is empowered to do the same in consultation with Ministry of Power. The decision in this regard shall be binding on all the parties concerned.

SHALINI PRASAD, Addl. Secy.

**Annexure - I****Annexure I - Time Table for Bid Process**

<b>Sl. No.</b>	<b>Event</b>	<b>Elapsed Time from Zero date</b>
1.	Date of issue of RfS Project specific draft Power Purchase Agreements and other draft Project Agreements, and the PSA, if applicable.	Zero date
2.	Bid clarification, conferences, opening of online Data Room to share all Project specific details including site, if specified by Procurer etc. & revision of RfS	**
3.	RfS Bid submission	30 days
4.	Evaluation of bids and issue of LOI	120 days
5.	Signing of PPA and the PSA(if applicable).	150 days

\*\* In case of any change in RfS document, the Procurer shall provide the bidders additional time in accordance with clause 6.5 of these Guidelines.

**Note:** It is clarified that if the Procurer gives extended time for any of the events in the bidding process, on account of delay in achieving the activities required to be completed before the event, such extension of time shall not in any way be deviation from these Guidelines.

**Annexure-II****Annexure II - Technical Requirements for Grid Connected Solar PV Power Plants**

The following are some of the technical measures required to ensure quality of equipment used in grid connected solar photovoltaic power projects:

**1. SPV Modules**

1.1. The SPV modules used in the grid solar power projects must qualify to the latest edition of any of the following IEC PV module qualification test or equivalent BIS standards.

Crystalline Silicon Solar Cell Modules	IEC 61215
Thin Film Modules	IEC 61646
Concentrator PV modules	IEC 62108

1.2. In addition, SPV modules must qualify to IEC 61730 for safety qualification testing at 1000V DC or higher. The modules to be used in a highly corrosive atmosphere throughout their lifetime must qualify to IEC 61701.

**2. Power Conditioners/ Inverters**

The Power Conditioners/ Inverters of the SPV power plants must conform to the latest edition of IEC/ equivalent Standards as specified below:

Efficiency Measurements	IEC 61683
Environmental Testing	IEC 60068 -2/IEC 62093
EM Compatibility (EMC)	IEC 61000-6-2, IEC 61000-6-4 & other relevant parts of IEC 61000
Electrical safety	IEC 62103/ IEC 62109-1&2
Anti-Islanding Protection	IEEE 1547/IEC 62116/UL 1741 or equivalent BIS Standards

**3. Other Sub-systems/ Components:**

Other subsystems/components used in the SPV power plants (Cables, Connectors, Junction Boxes, Surge Protection Devices, etc.) must also conform to the relevant international/national Standards for Electrical Safety besides that for Quality required for ensuring Expected Service Life and Weather Resistance. It is recommended that the Cables of 600-1800 Volts DC for outdoor installations should comply with the BS EN 50618:2014/2pfg 1169/08.2007 for service life expectancy of 25 years.

**4. Authorized Test Centers**

The PV modules/Power Conditioners deployed in the power plants must have valid test certificates for their qualification as per above specified IEC/ BIS Standards by one of the NABL Accredited Test Centers in India. In case of module types like Thin Film and CPV / equipment for which such Test facilities may not exist in India at present, test certificates from reputed ILAC Member Labs abroad will be acceptable.

**5. Warranty**

PV modules used in grid solar power plants must be warranted for output wattage, which should not be less than 90% (ninety per cent) at the end of 10 (ten) years and 80% (eighty per cent) at the end of 25 (twenty-five) years.

**6. Identification and Traceability**

Each PV module used in any solar power project must use a RF identification tag. The following Information must be mentioned in the RFID used on each module (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions.)

- i. Name of the manufacturer of PV Module
- ii. Name of the Manufacturer of Solar cells
- iii. Month and year of the manufacture (separately for solar cells and module)
- iv. Country of origin (separately for solar cells and module)
- v. I-V curve for the module at Standard Test Condition (1000 W/m<sup>2</sup>, AM 1.5, 25<sup>0</sup>C)
- vi. Wattage, I<sub>m</sub>, V<sub>m</sub> and FF for the module
- vii. Unique Serial No and Model No of the module

- viii. Date and year of obtaining IEC PV module qualification certificate
- ix. Name of the test lab issuing IEC certificate
- x. Other relevant information on traceability of solar cells and module as per ISO 9000

Site owners would be required to maintain accessibility to the list of Module IDs along with the above parametric data for each module.

#### **7. Performance Monitoring:**

All grid solar PV power projects must install necessary equipment to continuously measure solar radiation, ambient temperature, wind speed and other weather parameters and simultaneously measure the generation of DC power as well as AC power generated from the plant. They will be required to submit this data to Procurer and MNRE or any other designated agency on line and/or through a report on regular basis every month for the entire duration of PPA. In this regard they shall mandatorily also grant access to Procurer and MNRE or any other designated agency to the remote monitoring portal of the power plants on a 24X7 basis.

#### **8. Safe Disposal of Solar PV Modules:**

The developers will ensure that all Solar PV modules from their plant after their 'end of life' (when they become defective/ non-operational/ non-repairable) are disposed of in accordance with the "e-waste (Management and Handling) Rules, 2011" notified by the Government and as revised and amended from time to time.



F. No. 283/3/2018-GRID SOLAR

भारत सरकार / Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय/ Ministry of New & Renewable Energy

ग्रिड सौर ऊर्जा प्रभाग / Grid Solar Power Division

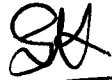
Block No. 14, C.G.O. Complex,  
Lodi Road, New Delhi – 110003

Dated: 02.04.2018

**OFFICE MEMORANDUM**

**Sub: Clarification to Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects, notified on 03.08.2017, under clause 20 of these Guidelines**

1. Reference is invited to the "Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects" notified on 03.08.2017.
2. "As per Clause 5.7.2 of said Guidelines, the term 'Change in Law' includes any change in the rates of any Taxes which have a direct effect on the Project.
3. ***In order to bring more clarity and remove uncertainty, it is hereby clarified that the term 'change in the rates of any taxes' as mentioned in clause 5.7.2 of "Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects" notified on 03.08.2017, includes "change in rates of taxes, duties and cess."***
4. This clarification issues with the concurrence of Ministry of Power vide their O.M. No. 23/27/2017-R&R dated 28.03.2018, and approval of Hon'ble Minister of State (I/C) (Power & NRE).



(Sanjay Karndhar)

Scientist-C

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To

1. **The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi – 110003.**

Copy to:

1. MD, SECI
2. CMD, NTPC
3. Secretaries (including Addl. Chief Secretary/ Principal Secretary), Energy/ Power of all States/UTs
4. PS to Hon'ble Minister (Power & NRE),
5. PPS to Secretary, MNRE
6. PPS to AS, MNRE
7. PPS to AS & FA, MNRE
8. PPS to JS (GKG), MNRE
9. DS (RG), MNRE
10. Dir (NIC), MNRE for uploading on MNRE website

(चौबीस) महीनों की अवधि में चालू हो जानी चाहिए। तथापि, यदि किसी कारण से, दनियत चालू होने की समयावधि को इन दिशा-निर्देशों में दी गई समयावधि से कम रखने की जरूरत है, तो खरीददार ऐसा कर सकता है। चालू करने की निर्धारित तारीख के बाद विलंब से शुरू होने पर सोलर पावर जेनरेटर पर पीपीए में निर्धारित समय-सारणी के प्रावधानों के अनुसार जुमाना लगाने का प्रावधान होगा। अगर सोलर पावर जेनरेटर के लिए खरीददार द्वारा चुने गए स्थान के हस्तांतरण में निर्धारित समय-सारणी के अनुसार विलंब होने पर वित्तीय समापन और पूर्व निर्धारित निष्पादन तारीख भी तदनुसार आगे बढ़ जाएगी, बशर्ते परियोजना पूरी करने की समयावधि खंड 3.2.1(ए) के प्रावधानों के अनुसार बकाया 10 प्रतिशत भूमि के हस्तांतरण की तारीख बीत जाने के बाद से शुरू हो रहे 1 वर्ष की अवधि तक सीमित होगी।"

घनश्याम प्रसाद, मुख्य अभियंता

## MINISTRY OF POWER RESOLUTION

New Delhi, the 14<sup>th</sup> June, 2018

### **Amendment to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects**

**No. 23/27/2017-R&R.—** 1.0 The Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects have been notified under the provisions of Section 63 of the Electricity Act, 2003 vide resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I—Section 1) on 3<sup>rd</sup> August, 2017.

**2.0** The following amendments are hereby made in the said guidelines of 3<sup>rd</sup> August, 2017 namely:-

**2.1 The Para at point No.3.2.3 (a): “Land acquisition:** Identification of the 100% (hundred per cent) land at the time of bid submission and within 7 (seven) months of the execution of the PPA, submission of documents/ Lease Agreement to establish possession/ right to use 100 % (hundred per cent) of the required land in the name of the Solar Power Generator or its Affiliate. In case the land is in the name of Affiliate, the land should be transferred in the name of Solar Power Generator prior to Scheduled Commissioning Date (SCD). Wherever leasing of private land is involved, the lease should allow transfer of land to the lenders or Procurer, in case of default of the Solar Power Generator.”

#### **May be read as under:**

“**Land acquisition:** Within 12(twelve) months of the execution of the PPA, submission of documents/ Lease Agreement to establish possession/ right to use 100 % (hundred per cent) of the required land in the name of the Solar Power Generator or its Affiliate. In case the land is in the name of any other entity, including Affiliate, the land/ land lease rights should be transferred in the name of Solar Power Generator prior to Scheduled Commissioning Date (SCD). Wherever leasing of private land is involved, the lease should allow transfer of land lease rights to the lenders or Procurer, in case of default of the Solar Power Generator.”

#### **2.2 The Para at point No.12: “FINANCIAL CLOSURE**

The Solar Power Generator shall attain the financial closure in terms of the PPA, within 7 (seven) months from the date of execution of the Power Purchase Agreement.

Failing the aforesaid, the Procurer shall encash the PBG unless the delay is on account of delay in allotment of land by the Procurer in terms of Clause 3.2.1 and Clause 3.2.2 or delay in allotment of land by the Government not owing to any action or inaction on the part of the Solar Power Generator or caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by the Procurer, on the sole request of the Solar Power Generator, on payment of a penalty as specified in the PPA. This extension will not have any impact on the SCD. Any penalty paid so, shall be returned to the Solar Power Generator without any interest on achievement of successful commissioning within the SCD.”

**May be read as under:****“ FINANCIAL CLOSURE**

The Solar Power Generator shall attain the financial closure in terms of the PPA, within 12 (twelve) months from the date of execution of the Power Purchase Agreement. However, if for any reason, the time period for attaining financial closure needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same.

Failing the aforesaid, the Procurer shall encash the PBG unless the delay is on account of delay in allotment of land by the Procurer in terms of Clause 3.2.1 and Clause 3.2.2 or delay in allotment of land by the Government not owing to any action or inaction on the part of the Solar Power Generator or caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by the Procurer, on the sole request of the Solar Power Generator, on payment of a penalty as specified in the PPA. This extension will not have any impact on the SCD. Any penalty paid so, shall be returned to the Solar Power Generator without any interest on achievement of successful commissioning within the SCD.”

**2.3 The Para at point No.14.3:****“Commissioning Schedule:**

The Projects shall be commissioned within a period of 13 (thirteen) months from the date of execution of the PPA. However, Projects with a capacity of 250 MW and above, if being developed outside a Solar park, shall be commissioned within a period of 15 (fifteen) months from the date of execution of the PPA. Delay in commissioning, beyond the Scheduled Commissioning Period shall involve penalties on the Solar Power Generator, as detailed out in PPA. In case of site specified by the Procurer, any delay in handing over land to the Solar Power Generator in accordance with the given timelines, shall entail a corresponding extension in financial closure and scheduled commissioning date, provided that the maximum extension shall be limited to a period of 1 year commencing from the expiry of date of handing over of balance 10% of land in terms of Clause 3.2.1 (a).”

**May be read as under:****“Commissioning Schedule:**

The Projects shall be commissioned within a period of 21 (twenty one) months from the date of execution of the PPA. However, Projects with a capacity of 250 MW and above, if being developed outside a Solar park, shall be commissioned within a period of 24 (twenty four) months from the date of execution of the PPA. However, if for some reason, the scheduled commissioning period needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same. Delay in commissioning, beyond the Scheduled Commissioning Period shall involve penalties on the Solar Power Generator, as detailed out in PPA. In case of site specified by the Procurer, any delay in handing over land to the Solar Power Generator in accordance with the given timelines, shall entail a corresponding extension in financial closure and scheduled commissioning date, provided that the maximum extension shall be limited to a period of 1 year commencing from the expiry of date of handing over of balance 10% of land in terms of Clause 3.2.1 (a).”

GHANSHYAM PRASAD , Chief Engineer (R&R)

2.	बोली के बारे में स्पष्टीकरण, कान्फ्रेंस, साइट समेत परियोजना से संबंधित तमाम विशिष्ट विवरणों को साझा करने के लिए ऑनलाइन डेटारूम खोलना (अगर खरीदार द्वारा कहा गया हो) और आरएफएस का संशोधन	**
3.	आरएफएस बोली भेजा जाना	22 दिन
4.	बोलियों का मूल्यांकन और एलओआई जारी करना	110 दिन
5.	पीपीए और पीएसए पर दस्तखत (अगर लागू हो)	140 दिन

\*\*आरएफएस दस्तावेज में किसी भी बदलाव की स्थिति में खरीदार इन दिशानिर्देशों के उपबंध 6.5 के अनुसार बोली लगाने वाले को अतिरिक्त समय देगा।

**नोट :** यह स्पष्ट किया जाता है कि अगर खरीदार बोली लगाने की प्रक्रिया में किसी कार्य में विलंब की वजह से उसे पूरा करने के लिए किसी कार्य के लिए बोलीदाता को अतिरिक्त समय देता है तो इस अतिरिक्त समय को इन दिशानिर्देशों में किसी भी तरह का विचलन नहीं माना जाएगा।

घनश्याम प्रसाद, मुख्य अभियंता

## MINISTRY OF POWER

### RESOLUTION

New Delhi, the 3rd January, 2019

#### **Amendments to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects**

**No. 23/27/2017-R&R.—1.0** The Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects have been notified under the provisions of Section 63 of the Electricity Act, 2003 vide resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section) on 3<sup>rd</sup> August, 2017 and have been amended vide resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section) on 15<sup>th</sup> June, 2018.

**2.0** The following amendments are hereby made in the said guidelines of 3<sup>rd</sup> August, 2017, amended on 15<sup>th</sup> June 2018, namely:-

#### **2.1 The Para at point No. 9:**

##### **“9. INDICATIVE TIME TABLE FOR BID PROCESS**

**9.1.** In the bidding process, a minimum period of 30 (thirty) days shall be allowed between the issuance of RfS documents and the last date of bid submission. The indicative timetable for the bidding process is indicated in Annexure-I. In normal circumstances, the bidding process is likely to be completed in a period of 120 (one hundred twenty) days

**9.2.** The Procurer may give extended timeframe than indicated in the Annexure-I and this shall not be construed as deviation to the Guidelines.”

**May be read as under:**

##### **“9. INDICATIVE TIME TABLE FOR BID PROCESS**

**9.1.** In the bidding process, a minimum period of 22 (twenty two) days shall be allowed between the issuance of RfS documents and the last date of bid submission. The indicative timetable for the bidding process is indicated in Annexure-I. In normal circumstances, the bidding process is likely to be completed in a period of 110 (one hundred ten) days

**9.2.** The Procurer may give extended timeframe than indicated in the Annexure-I and this shall not be construed as deviation to the Guidelines.”

**2.2 The Para at point No. 12:****“12. Financial Closure**

The Solar Power Generator shall attain the financial closure in terms of the PPA, within 12 (twelve) months from the date of execution of the Power Purchase Agreement. However, if for any reason, the time period for attaining the financial closure needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same.

Failing the aforesaid, the Procurer shall encash the PBG unless the delay is on account of delay in allotment of land by the Procurer in terms of Clause 3.2.1 and Clause 3.2.2 or delay in allotment of land by the Government not owing to any action or inaction on the part of the Solar Power Generator or caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by the Procurer, on the sole request of the Solar Power Generator, on payment of a penalty as specified in the PPA. This extension will not have any impact on the SCD. Any penalty paid so, shall be returned to the Solar Power Generator without any interest on achievement of successful commissioning within the SCD.”

**May be read as under:****“12. Financial Closure**

Solar Power Generator shall attain the financial closure in terms of the PPA, within 9 (nine) months from the date of execution of the Power Purchase Agreement, for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park. However, if for any reason, the time period for attaining the financial closure needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same.

Failing the aforesaid, the Procurer shall encash the PBG unless the delay is on account of delay in allotment of land by the Procurer in terms of Clause 3.2.1 and Clause 3.2.2 or delay in allotment of land by the Government not owing to any action or inaction on the part of the Solar Power Generator or caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by the Procurer, on the sole request of the Solar Power Generator, on payment of a penalty as specified in the PPA. This extension will not have any impact on the SCD. Any penalty paid so, shall be returned to the Solar Power Generator without any interest on achievement of successful commissioning within the SCD.”

**2.3 The Para at point No. 14.3:****“14.3. Commissioning Schedule:**

The Projects shall be commissioned within a period of 21 (twenty one) months, from the date of execution of the PPA. However, Projects with a capacity of 250 MW and above, if being developed outside a Solar park, shall be commissioned within a period of 24 (twenty four) months from the date of execution of the PPA. However, if for some reason, the scheduled commissioning period needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same. Delay in commissioning, beyond the Scheduled Commissioning Period shall involve penalties on the Solar Power Generator, as detailed out in PPA. In case of site specified by the Procurer, any delay in handing over land to the Solar Power Generator in accordance with the given timelines, shall entail a corresponding extension in financial closure and scheduled commissioning date, provided that the maximum extension shall be limited to a period of 1 year commencing from the expiry of date of handing over of balance 10% of land in terms of Clause 3.2.1 (a).”

**May be read as under:****“14.3. Commissioning Schedule:**

“The projects shall be commissioned, within a period of 15 (fifteen) months from the date of execution of the PPA, for projects being set up in Solar park, and within a period of 18 (eighteen) months from the date of execution of the PPA, for projects being set up outside Solar park. However, if for some reason, the scheduled commissioning period needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same. Delay in commissioning, beyond the Scheduled Commissioning Period shall involve penalties on the Solar Power Generator, as detailed out in PPA. In case of site specified by the Procurer, any delay in handing over land to the Solar Power Generator in accordance with the given timelines, shall entail a corresponding extension in financial closure and scheduled commissioning date, provided that the maximum extension shall be limited to a period of 1 year commencing from the expiry of date of handing over of balance 10% of land in terms of Clause 3.2.1 (a).”

**2.4 The Annexure-I:****“Annexure I – Time-Table for Bid Process**

<b>Sl. No.</b>	<b>Event</b>	<b>Elapsed Time from Zero date</b>
1.	Date of issue of RfS Project specific draft Power Purchase Agreements and other draft Project Agreements, and the PSA, if applicable.	Zero date
2.	Bid clarification, conferences, opening of online Data Room to share all Project specific details including site, if specified by Procurer etc. & revision of RfS	**
3.	RfS Bid submission	30 days
4.	Evaluation of bids and issue of LOI	120 days
5.	Signing of PPA and the PSA(if applicable).	150 days

\*\* In case of any change in RfS document, the Procurer shall provide the bidders additional time in accordance with clause 6.5 of these Guidelines.

**Note:** It is clarified that if the Procurer gives extended time for any of the events in the bidding process, on account of delay in achieving the activities required to be completed before the event, such extension of time shall not in any way be deviation from these Guidelines.”

**May be read as under:**

**“Annexure I – Time-Table for Bid Process**

<b>Sl. No.</b>	<b>Event</b>	<b>Elapsed Time from Zero date</b>
1.	Date of issue of RfS Project specific draft Power Purchase Agreements and other draft Project Agreements, and the PSA, if applicable.	Zero date
2.	Bid clarification, conferences, opening of online Data Room to share all Project specific details including site, if specified by Procurer etc. & revision of RfS	**
3.	RfS Bid submission	22 days
4.	Evaluation of bids and issue of LOI	110 days
5.	Signing of PPA and the PSA(if applicable).	140 days

\*\* In case of any change in RfS document, the Procurer shall provide the bidders additional time in accordance with clause 6.5 of these Guidelines.

**Note:** It is clarified that if the Procurer gives extended time for any of the events in the bidding process, on account of delay in achieving the activities required to be completed before the event, such extension of time shall not in any way be deviation from these Guidelines.”

GHANSHYAM PRASAD, Chief Engineer

**MINISTRY OF POWER****RESOLUTION**

New Delhi, the 9th July, 2019

**Amendments to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects**

**No. 23/27/2017-R&R.—1.0** The Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects have been notified under the provisions of Section 63 of the Electricity Act, 2003 vide resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section) on 3<sup>rd</sup> August, 2017 and have been amended vide resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section) on 15<sup>th</sup> June, 2018 and resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section) on 7<sup>th</sup> January, 2019.

**2.0** The following amendments are hereby made in the said guidelines of 3<sup>rd</sup> August, 2017, amended on 15<sup>th</sup> June 2018 and 7<sup>th</sup> January, 2019 namely:-

**2.1 The Para at point No. 11.2:**

“**11.2** Performance Bank Guarantee (PBG), to be fixed by the Procurer [but not to be more than 4% (four per cent), in case of site specified by the Procurer, and 5% (five per cent), in case of site selected by the Solar Power Generator, of the Project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost] to be submitted at the time of signing of the PPA. In addition to the other remedies, this PBG can be encashed to recover any damages/dues of the Solar Power Generator in terms of the PPA. It is hereby clarified that the damages/dues recovered by the Intermediary Procurer by encashing the PBG, upon the default of the Solar Power Generator under the PPA, shall be passed on by the Intermediary Procurer to the End Procurer in terms of the PSA.”

**May be read as under:**

“**11.2** Performance Bank Guarantee (PBG), to be fixed by the Procurer [but not to be more than 4% (four per cent), in case of site specified by the Procurer, and 5% (five per cent), in case of site selected by the Solar Power Generator, of the Project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost] to be submitted at the time of signing of the PPA. In addition to the other remedies, this PBG can be encashed to recover any damages/dues of the Solar Power Generator in terms of the PPA. It is hereby clarified that the damages/dues recovered by the Intermediary Procurer by encashing the PBG, upon the default of the Solar Power Generator under the PPA, shall be credited to the Payment Security Fund to be maintained by the Intermediary Procurer under Clause 5.3.2.a.ii. of ‘Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects.’”

**2.2 The Para at point No. 13:****“13. MINIMUM PAID UP SHARE CAPITAL TO BE HELD BY THE PROMOTER**

**13.1.** The successful bidder, if being a single company, shall ensure that its shareholding in the SPV/project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 1 (one) year from the COD (as defined in Clause 15), except with the prior approval of the Procurer. In the event the successful bidder is a consortium, then the combined shareholding of the consortium members in the SPV/project company executing the PPA, shall not fall below 51% at any time prior to 1 (one) year from the COD, except with the prior approval of the Procurer. However, in case the successful bidder shall be itself executing the PPA, then it shall ensure that its promoters shall not cede control<sup>2</sup> till 1 (one) year from the COD, except with the prior approval of the Procurer. In this case it shall also be essential that the successful bidder shall provide the information about its promoters and their shareholding to the Procurer before signing of the PPA with Procurer.

**13.2.** Any change in the shareholding after the expiry of 1 (one) year from the COD can be undertaken under intimation to Procurer.

**13.3.** In the event the Solar Power Generator is in default to the lender(s), lenders shall be entitled to undertake “**Substitution of Promoter**” in concurrence with the Procurers.”

**May be read as under:**

**“13. MINIMUM PAID UP SHARE CAPITAL TO BE HELD BY THE PROMOTER**

**13.1.** The successful bidder, if being a single company, shall ensure that its shareholding in the SPV/project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 3 (three) years from the COD (as defined in Clause 15), except with the prior approval of the Procurer. In the event the successful bidder is a consortium, then the combined shareholding of the consortium members in the SPV/project company executing the PPA, shall not fall below 51% at any time prior to 3 (three) years from the COD, except with the prior approval of the Procurer. Further, the successful bidder shall ensure that its promoters shall not cede control<sup>2</sup> of the bidding company/ consortium till 3 (three) years from the COD, except with the prior approval of the Procurer. In this case it shall also be essential that the successful bidder shall provide the information about its promoters and their shareholding to the Procurer before signing of the PPA with Procurer.

**13.2.** Any change in the shareholding after the expiry of 3 (three) years from the COD can be undertaken under intimation to Procurer.

**13.3.** In the event the Solar Power Generator is in default to the lender(s), lenders shall be entitled to undertake “**Substitution of Promoter**” in concurrence with the Procurers.”

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<sup>2</sup>The expression ‘control’ shall mean the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such Company or right to appoint majority Directors.

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**2.3 The Para at point No. 20:**

**“20. CLARIFICATION AND MODIFICATION TO GUIDELINES**

If any difficulty arises in giving effect to any provision of these Guidelines or interpretation of the Guidelines or modification to the Guidelines, Ministry of New & Renewable Energy is empowered to do the same in consultation with Ministry of Power. The decision in this regard shall be binding on all the parties concerned.”

**May be read as under:**

**“20. CLARIFICATION AND MODIFICATION TO GUIDELINES**

If any difficulty arises in giving effect to any provision of these Guidelines or interpretation of the Guidelines or modification to the Guidelines, Ministry of New & Renewable Energy is empowered to do the same, with the approval of Minister, New & Renewable Energy. The decision in this regard shall be binding on all the parties concerned.”

GHANSHYAM PRASAD, Chief Engineer (R&R)



**MINISTRY OF NEW AND RENEWABLE ENERGY****RESOLUTION**

New Delhi, the 22<sup>nd</sup> October, 2019

**Amendments to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects**

**No. 283/57/2018-GRID SOLAR.— 1.0** The Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects have been notified under the provisions of Section 63 of the Electricity Act, 2003 vide resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section-I) on 3<sup>rd</sup> August, 2017 and have been amended vide resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section-I) on 15<sup>th</sup> June, 2018, resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section-I) on 7<sup>th</sup> January, 2019 and resolution No. 23/27/2017-R&R published in the Gazette of India (Extraordinary) (Part I-Section-I) on 11<sup>th</sup> July, 2019.

**2.0** The following amendments are hereby made in the said guidelines of 3<sup>rd</sup> August, 2017, amended on 15<sup>th</sup> June 2018, 7<sup>th</sup> January, 2019 and 11<sup>th</sup> July, 2019 namely:-

**2.1 The Para at point No. 2.1.1(c):****“2.1.1(c) ‘Intermediary Procurer’ & ‘End Procurer’:**

- i.** In some cases, an intermediary, between the distribution licensees and the generator (‘Solar Power Generator’), may be required either to aggregate the solar power purchased from different Solar Power Generators and sell it to the distribution licensee, or to enhance the credit profile. In such cases, the “Procurer” would be a trader, buying power from the Solar Power Generators and selling the same to one or more distribution licensees, such distribution licensees shall be the “End Procurer” and the trader shall be “Intermediary Procurer” for the purpose of these Guidelines.
- ii.** The Intermediary Procurer shall enter into a PPA with the Solar Power Generator and also enter into a Power Sale Agreement (PSA) with the End Procurer. The PSA shall contain the relevant provisions of the PPA on a back to back basis. The trading margin, as notified by the Appropriate Commission (or in the absence of such notification, as mutually decided between the Intermediary Procurer and the End Procurer), shall be payable by the End Procurer to the Intermediary Procurer.
- iii.** In such cases, as long as the Intermediary Procurer has followed these Guidelines for procurement of solar power, the End Procurer shall be deemed to have followed these Guidelines for procurement of solar power.”

**May be read as under:**

**“2.1.1(c) ‘Intermediary Procurer’ & ‘End Procurer’:**

- i. (a).** In some cases, an intermediary, between the distribution licensees and the generator (‘Solar Power Generator’), may be required either to aggregate the solar power purchased from different Solar Power Generators and sell it to the distribution licensee(s), or to enhance the credit profile. In such cases, the “Procurer” would be a trader, buying power from the Solar Power Generators and selling the same to one or more distribution licensees, such distribution licensees shall be the “End Procurer” and the trader shall be “Intermediary Procurer” for the purpose of these Guidelines.

**(b).** Provided that in case of aggregation of power purchased from different Solar Power Generators, the Intermediary Procurer may sell the solar power to End Procurer(s) at the weighted average of tariffs discovered and finalised for different bids over a period of (1st January to 30th June) or (1st July to 31st December) of any year. However, if required, MNRE may change this duration/ dates. The weighted average shall be calculated for the tariff discovered for all such bids where it has been specifically provided by the intermediary procurer that the bid would be part of the bundle of bids issued during the

specified period for arriving at weighted average tariff to be paid by the final procurer. The bundling (weighted averaging) would be done only for bids issued by the same Intermediary Procurer. The Intermediary Procurer would be the competent authority to certify the weighted average tariff during the period.

(c).The weights to be assigned to each successful bid tariff for calculation of the weighted average shall be the total accepted capacity in the bid for the respective tariffs. That is the weighted average tariff for n bids would be,

$$t_{avg} = (w_1 \times t_1 + w_2 \times t_2 + \dots + w_n \times t_n) \div (w_1 + w_2 + \dots + w_n)$$

where,

$t_{avg}$  = weighted average tariff  
 $w_i$  = capacity won by successful bid 'i'  
 $t_i$  = tariff for successful bid 'i'  
 and 'i' varies from 1 to n

(d).The weighted average tariff for bids from 1st January to 30th June would be called as “**June Tariff**” and that of the bids from 1st July to 31st December would be called as “**December Tariff**”.

(e).In case a project does not get commissioned or permanently stops generating after commissioning, then the capacity of such project shall be deducted and new weighted average tariff will be calculated and made applicable.

(f).For bids involving staggered commissioning or commissioning in tranches, where it has been specifically provided by the intermediary procurer that the bid would be part of the bundle of bids, the first tranche may be bundled with the bids issued in the same January-June or July-December block, as the block of the bid concerned. In such cases, if the Scheduled Commissioning Date (SCD) of the second tranche, as per the bid, is less than 6 months after that of first tranche, the second tranche may be bundled with immediately next block following the block in which first tranche was bundled. In case the SCD of the second tranche, as per the bid, is more than 6 months after that of first tranche, the second tranche may be bundled with next-to-next block following the block in which first tranche was bundled. Same principle may be followed for all subsequent tranches.

(g).For bids issued before 1<sup>st</sup> January 2020, and where the provision of bundling of bids, as per these Guidelines, has been specifically provided, the Intermediary Procurer may sell the solar power to End Procurer(s) following the above provisions of these Guidelines.

ii. (a).The Intermediary Procurer shall enter into a PPA with the Solar Power Generator and also enter into a Power Sale Agreement (PSA) with the End Procurer. The PSA shall contain the relevant provisions of the PPA on a back to back basis, rates shall be as per clause 2.1.1 c. The PSA may be signed initially with rates as “June Tariff” or “December Tariff”, depending where the bid falls, and subsequently, once the values for “June Tariff” or “December Tariff” have been computed the same may be mentioned in the PSA.

(b).The trading margin, of Rs. 0.07/kWh, shall be payable by the End Procurer to the Intermediary Procurer.

iii. As long as the Intermediary Procurer has followed these Guidelines for procurement of solar power, the End Procurer shall be deemed to have followed these Guidelines for procurement of solar power.”

## 2.2 The Para at point No. 3.2.3(a):

“**3.2.3(a):Land acquisition:** Within 12(twelve) months of the execution of the PPA, submission of documents/Lease Agreement to establish possession/right to use 100% (hundred per cent) of the required land in the name of the Solar Power Generator or its Affiliate. In case of land is in the name of any other entity, including Affiliate, the land/ land lease rights should be transferred in the name of Solar Power Generator prior to Scheduled Commissioning Date(SCD). Wherever leasing of private

land is involved, the lease should allow transfer of land lease rights to the lenders or Procurer, in case of default of the Solar Power Generator.”

**May be read as under:**

“**3.2.3(a):Land acquisition:** Submission of documents/Lease Agreement to establish possession/right to use 100% (hundred per cent) of the required land in the name of the Solar Power Generator for a period not less than the complete term of the PPA, on or before the Scheduled Commissioning Date (SCD). Wherever leasing of private land is involved, the lease should allow transfer of land lease rights to the lenders or Procurer, in case of default of the Solar Power Generator.”

**2.3 The Para at point No. 5.3.2(a):**

“**5.3.2(a) Payment Security by Intermediary Procurer to the Solar Power Generator:**

The Intermediary Procurer shall provide payment security to the Solar Power Generator through:

- i. **Revolving Letter of Credit (LC)** of an amount not less than 1 (one) months’ average billing from the Project under consideration;

**AND**

- ii. **Payment Security Fund**, which shall be suitable to support payment of at least 3 (three) months’ billing of all the Projects tied up with such fund.”

**May be read as under:**

“**5.3.2(a) Payment Security by Intermediary Procurer to the Solar Power Generator:**

The Intermediary Procurer shall provide payment security to the Solar Power Generator through:

- i. **Revolving Letter of Credit (LC)** of an amount not less than 1 (one) months’ average billing for the Project under consideration;

**AND**

- ii. **Payment Security Fund**, which shall be suitable to support payment of at least 3 (three) months’ billing of all the Projects tied up with such fund. For the purpose of this Payment Security Fund, the Intermediary may collect Rs 5.0 Lacs/MW (Five Lacs per MW) from Solar Power Generator(s). Such charges shall be stipulated clearly in the RFS and shall go to the Payment Security Fund set up for such Intermediary Procurer.”

**2.4 The Para at point No. 5.3.2(b):**

“**5.3.2(b) Payment Security by End Procurer to Intermediary Procurer:**

The End Procurer shall provide payment security to the Intermediary Procurer through:

- i. **Revolving Letter of Credit (LC)** of an amount not less than 1 (one) months’ average billing from the Project(s) under consideration;

**AND,**

- ii. **State Government Guarantee**, in a legally enforceable form, such that there is adequate security, both in terms of payment of energy charges and termination compensation if any. *[for the purpose of this clause, the Tri-Partite Agreement (TPA) signed between Reserve Bank of India, Central Government and State Government shall qualify as State Government Guarantee covering the security for payment of energy charges].* The Intermediary Procurer shall ensure that upon invoking this

guarantee, it shall at once, pass on the same to the Solar Power Generator, to the extent the payments to the Solar Power Generator in terms of the PPA are due.

- iii. In addition to (i) &(ii) above, the End Procurer may also choose to provide **Payment Security Fund**, which shall be suitable to support payment of at least 3 (three) months' billing of all the Projects tied up with such fund.

It is hereby clarified that the State Government guarantee shall be invoked only after the Intermediary Procurer has been unable to recover its dues under the PPA by means of the Letter of Credit and the Payment Security Fund, if any.”

**May be read as under:**

**“5.3.2(b) Payment Security by End Procurer to Intermediary Procurer:**

The End Procurer shall provide payment security to the Intermediary Procurer through:

- i. **Revolving Letter of Credit (LC)** of an amount not less than 1 (one) months' average billing for the Project(s) under consideration;

**AND,**

- ii. **State Government Guarantee**, in a legally enforceable form, such that there is adequate security, both in terms of payment of energy charges and termination compensation if any. *[for the purpose of this clause, the Tri-Partite Agreement (TPA) signed between Reserve Bank of India, Central Government and State Government shall qualify as State Government Guarantee covering the security for payment of energy charges].* The Intermediary Procurer shall ensure that upon invoking this guarantee, it shall at once, pass on the same to the Solar Power Generator, to the extent the payments to the Solar Power Generator in terms of the PPA are due. Provided that in cases where the End procurer is neither covered by Tri-Partite Agreement (TPA) nor is able to provide the State Government Guarantee, the following, shall be adopted:

*Provision for payment of additional risk premium of Rs 0.10/kWh, by End Procurer to the Intermediary Procurer, and to be credited to the payment security fund maintained by the Intermediary Procurer, to meet such exigencies.*

- iii. In addition to (i) &(ii) above, the End Procurer may also choose to provide **Payment Security Fund**, which shall be suitable to support payment of at least 3 (three) months' billing of all the Projects tied up with such fund.

It is hereby clarified that the State Government guarantee shall be invoked only after the Intermediary Procurer has been unable to recover its dues under the PPA by means of the Letter of Credit and the Payment Security Fund, if any.”

**2.5 The Para at point No. 5.4.:**

**“5.4.Force Majeure:** The PPA shall contain provisions with regard to force majeure definitions, exclusions, applicability and available relief on account of Force Majeure, as per the industry standards.”

**May be read as under:**

**“5.4. Force Majeure**

- 5.4.1. Definition of Force Majeure:** A ‘Force Majeure’ (FM) would mean one or more of the following acts, events or circumstances or a combination of acts, events or circumstances or the consequence(s) thereof, that wholly or partly prevents or unavoidably delays the performance by the Party (the **Affected Party**) of its obligations under the relevant Power Purchase Agreement, but only if and to the extent that such events or circumstances are not

within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices.

#### **5.4.2. Categorisation of Force Majeure Events:**

##### **5.4.2.1. Natural Force Majeure Event**

- a) Act of God, including, but not limited to lightning, drought, fire and explosion (to the extent originating from a source external to the site), earthquake, volcanic eruption, landslide, flood, cyclone, typhoon or tornado if it is declared / notified by the competent state / central authority / agency (as applicable), or verified to the satisfaction of Procurer;
- b) radioactive contamination or ionising radiation originating from a source in India or resulting from another Force Majeure Event mentioned above excluding circumstances where the source or cause of contamination or radiation is brought or has been brought into or near the Power Project by the Affected Party or those employed or engaged by the Affected Party;
- c) the discovery of geological conditions, toxic contamination or archaeological remains on the Project land that could not reasonably have been expected to be discovered through an inspection of the Project land; or
- d) any event or circumstances of a nature analogous to any of the foregoing.

##### **5.4.2.2. Non-Natural Force Majeure Event**

- a) any act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action;
- b) nation/state-wide strike, lockout, boycotts or other industrial disputes which are not directly and solely attributable to the actions of the Affected Party, but does not include strike or labour unrest limited to the Affected Party or its contractors;
- c) nationalisation or any compulsory acquisition by any Indian Governmental Instrumentality/ State Government in national interest or expropriation of any material Project assets or rights of the Generator, as a result of which the Generator or its shareholders are deprived (wholly or partly) of their rights or entitlements under the Power Purchase Agreement. Provided that such action does not constitute remedies or sanctions lawfully exercised by the Procurer or any other Government Authority as a result of any breach of any of the Applicable Laws or the Applicable Permits by the Generator or the Generator related parties;
- d) action of a Government Authority having Material Adverse Effect including but not limited to change in law, only if consequences thereof cannot be dealt with under and in accordance with the provisions of Clause 5.7 of these Guidelines; any unlawful or unauthorised or without jurisdiction revocation of, or delay in, or refusal, or failure to renew or grant without valid cause, any Permits of the Generator or any of the clearance, licence, authorization to be obtained by the Contractors to perform their respective obligations under the relevant PPA and/or the Project Documents; provided that such delay, modification, denial, refusal or revocation did not result from the Generator's or any Contractors inability or failure to comply with any condition relating to grant, maintenance or renewal of such Permits or clearance, licence, authorization, as the case may be.

Clarification: The phrase "Change in Law" would include changes brought out through change in Law, Rules, Regulations or orders of competent authorities.

#### **5.4.3. Force Majeure Exclusions**

**5.4.3.1.** Force Majeure shall not include (i) any event or circumstance which is within the reasonable control of the Parties and (ii) the following conditions, except to the extent that they are consequences of an event of Force Majeure:

- a) Unavailability, late delivery, or changes in cost of the plant, machinery, equipment, materials, spare parts or consumables for the Power Project;
- b) Delay in the performance of any contractor, sub-contractor or their agents;

- c) Non-performance resulting from normal wear and tear typically experienced in power generation materials and equipment;
- d) Strikes at the facilities of the Affected Party;
- e) Insufficiency of finances or funds or the agreement becoming onerous to perform; and
- f) Non-performance caused by, or connected with, the Affected Party's:
  - i. Negligent or intentional acts, errors or omissions;
  - ii. Failure to comply with an Indian Law; or
  - iii. Breach of, or default under this Agreement.

#### **5.4.4. Notification of Force Majeure Event**

**5.4.4.1.** The Affected Party shall give notice to the other Party of any event of Force Majeure as soon as reasonably practicable, but not later than seven (7) days after the date on which such Party knew or should reasonably have known of the commencement of the event of Force Majeure. If an event of Force Majeure results in a breakdown of communications rendering it unreasonable to give notice within the applicable time limit specified herein, then the Party claiming Force Majeure shall give such notice as soon as reasonably practicable after reinstatement of communications, but not later than one (1) day after such reinstatement.

**5.4.4.2.** Provided that such notice shall be a pre-condition to the Affected Party's entitlement to claim relief under the PPA. Such notice shall include full particulars of the event of Force Majeure, its effects on the Party claiming relief and the remedial measures proposed. The Affected Party shall give the other Party regular (and not less than weekly) reports on the progress of those remedial measures and such other information as the other Party may reasonably request about the Force Majeure Event.

**5.4.4.3.** The Affected Party shall give notice to the other Party of (i) the cessation of the relevant event of Force Majeure; and (ii) the cessation of the effects of such event of Force Majeure on the performance of its rights or obligations under the PPA, as soon as practicable after becoming aware of each of these cessations.

#### **5.4.5 Performance Excused**

**5.4.5.1.** The Affected Party, to the extent rendered unable to perform its obligations or part of the obligation thereof under the PPA as a consequence of the Force Majeure Event, shall be excused from performance of the obligations, provided that the period shall not exceed 180 (one hundred and eighty) Days from the date of issuance of the FM Notice. The Parties may mutually agree to extend the period for which performance is excused due to a Force Majeure Event.

**5.4.5.2.** For the time period, as mutually agreed by the Parties, during which the performance shall be excused, the generator shall be entitled for a day to day extension of the period provided for Financial Closure or Scheduled Commissioning Period or the PPA period, as the case may be.

**5.4.5.3.** Provided always that a Party shall be excused from performance only to the extent reasonably warranted by the Force Majeure Event.

**5.4.5.4.** Provided further that, nothing shall absolve the Affected Party from any payment obligations accrued prior to the occurrence of the underlying Force Majeure Event.

#### **5.4.6. No Liability for Other Losses**

Save as otherwise provided in these Guidelines, no Party shall be liable in any manner, whatsoever, to the other Parties in respect of any Loss relating to or arising out of the occurrence or existence of any Force Majeure Event.

#### **5.4.7. Resumption of Performance**

During the period that a Force Majeure Event is subsisting, the Affected Party shall, in consultation with the other Parties, make all reasonable efforts to limit or mitigate the effects of such Force Majeure Event on the performance of its obligations under the PPA. The

Affected Party shall also make efforts to resume performance of its obligations under this Agreement as soon as possible and upon resumption, shall notify other Parties of the same in writing. The other Parties shall afford all reasonable assistance to the Affected Party in this regard.

#### **5.4.8. Termination Due to Force Majeure Event**

##### **5.4.8.1. Termination due to Natural Force Majeure Event**

- a) If, prior to the completion of the 180 (one hundred and eighty) Day period (or any extended period) for a Natural Force Majeure Event commencing from the date of issuance of the Force Majeure Notice, the Parties are of the reasonable view that a Natural Force Majeure Event is likely to continue beyond such 180 (one hundred and eighty) Day period or any extended period agreed in pursuance of Article 5.4.5 (Performance Excused); or that it is uneconomic or impractical to restore the affected Unit, then the Parties may mutually decide to terminate the PPA, and the termination shall take effect from the date on which such decision is taken.
- b) Without prejudice to the provisions of Article 5.4.8.1(a) above, the Affected Party shall, after the expiry of the period of 180 (one hundred and eighty) Days or any other mutually extended period, be entitled to forthwith terminate the PPA in its sole discretion by issuing a notice to that effect.
- c) On termination of the PPA pursuant to Article 5.4.8.1(b):
  - (i) no Termination Compensation shall be payable to the generator.
  - (ii) the Generator shall be eligible for undisputed payments under outstanding Monthly Bill(s), before the occurrence of Force Majeure Event.

##### **5.4.8.2. Termination due to Non-Natural Force Majeure Event**

- a) Upon occurrence of a Non-Natural Force Majeure Event, the Generator shall, at its discretion, have the right to terminate the PPA forthwith after the completion of the period of 180 (one hundred and eighty) Days from the date of the Force Majeure Notice.
- b) Notwithstanding anything in Article 5.4.6, on termination of the PPA pursuant to Article 5.4.8.2(a):
  - (i) the Procurer shall pay to the Generator, 'Force Majeure Termination Compensation' equivalent to the amount of the Debt Due and the 110% (one hundred and ten per cent) of the Adjusted Equity, as defined in these Guidelines, and takeover the Project assets.
  - (ii) the Generator shall be eligible for undisputed payments under outstanding Monthly Bill(s), before the occurrence of Force Majeure Event."

## **2.6 The Para at point No. 5.5.2.:**

**“5.5.2. Offtake constraints due to Backdown:** The Solar Power Generator and the Procurer shall follow the forecasting and scheduling process as per the regulations in this regard by the Appropriate Commission. The Government of India, as per Clause 5.2(u) of the Indian Electricity Grid Code (IEGC), encourages a status of “must-run” to solar power projects. Accordingly, no solar power plant, duly commissioned, should be directed to back down by a Discom/ Load Dispatch Centre (**LDC**). In case such eventuality of Backdown arises, except for the cases where the Backdown is on account of events like consideration of grid security or safety of any equipment or personnel or other such conditions, the Solar Power Generator shall be eligible for a Minimum Generation Compensation, from the Procurer, in the manner detailed below.

<b>Duration of Backdown</b>	<b>Provision for Generation Compensation</b>
Hours of Backdown during a monthly billing cycle.	<p><b>Minimum Generation Compensation =</b></p> <p><b>50% of [(Average Generation per hour during the month) × (number of backdown hours during the month) × PPA Tariff]</b></p> <p>Where, Average Generation per hour during the month (kWh) =</p> <p><math>\frac{\text{Total generation in the month (kWh)}}{\text{Total hours of generation in the month}}</math></p>

The Generation Compensation is to be paid as part of the energy bill for the successive month after receipt of Regional Energy Accounts (REA). No Trading Margin shall be applicable on this Generation Compensation. Possible conditions for exclusion of Generation Compensation, on account of Backdown purposes, shall be clearly specified in the RfS and the PPA.”

May be read as under:

**“5.5.2. Offtake constraints due to Backdown:**

(a). The Solar Power Generator and the Procurer shall follow the forecasting and scheduling process as per the regulations in this regard by the Appropriate Commission. The Government of India, as per Clause 5.2(u) of the Indian Electricity Grid Code (IEGC), provides for status of “must-run” to solar power projects. Accordingly, no solar power plant, duly commissioned, should be directed to back down by a Discom/ Load Dispatch Centre (LDC). In case such eventuality of Backdown arises, including non-dispatch of power due to non-compliance with “Order No. 23/22/2019-R&R dated 28.06.2019 of Ministry of Power regarding Opening and maintaining of adequate Letter of Credit (LC) as Payment Security Mechanism under Power Purchase Agreements by Distribution Licensees” and any clarifications or amendment thereto, except for the cases where the Backdown is on account of events like consideration of grid security or safety of any equipment or personnel or other such conditions, the Solar Power Generator shall be eligible for a Minimum Generation Compensation, from the Procurer, in the manner detailed below.

<b>Duration of Backdown</b>	<b>Provision for Generation Compensation</b>
Hours of Backdown during a monthly billing cycle.	<p><b>Minimum Generation Compensation =</b></p> <p><b>100% of [(Average Generation per hour during the month) × (number of backdown hours during the month) × PPA Tariff]</b></p> <p>Where, Average Generation per hour during the month (kWh) =</p> <p><math>\frac{\text{Total generation in the month (kWh)}}{\text{Total hours of generation in the month}}</math></p>

(b).The Generation Compensation is to be paid as part of the energy bill for the successive month after receipt of Regional Energy Accounts (REA). No Trading Margin shall be applicable on this Generation Compensation. Possible conditions for exclusion of Generation Compensation, on account of Backdown purposes, shall be clearly specified in the RfS and the PPA.

(c).No back-down / curtailment to be ordered without giving formal/ written instruction for the same.

(d).The details of back-down / curtailment, including justifications for such curtailment, to be made public by the concerned Load Dispatch Centre.”



**2.7 The Para at point No. 5.6.1.:****“5.6.1. Generator Event of Default and the consequences thereof:**

- a) In the event the Solar Power Generator is unable to commission the plant within the stipulated time period, or fails to supply power in terms of the PPA, or assigns or novates any of its rights or obligations contrary to the terms of the PPA, or repudiates the PPA, or effectuates a change in control or shareholding of its promoters in breach of the provisions of the PPA, or commits any other acts or omissions as laid down in the PPA and is also unable to cure any of the aforesaid within the cure period, as may be provided in the PPA, the Solar Power Generator shall be construed to be in default.
- b) Upon being in default, the Solar Power Generator shall be liable to pay to the Procurer, damages, as detailed in the PPA. The Procurer shall have the right to recover the said damages by way of forfeiture of bank guarantee, if any, without prejudice to resorting to any other legal course or remedy.
- c) In addition to the levy of damages as aforesaid, in the event of a default by the Solar Power Generator, the lenders shall be entitled to exercise their rights of substitution, in accordance with the substitution agreement provided in the PPA and in concurrence with the Procurers. However, in the event the lenders are unable to substitute the defaulting Solar Power Generator within the stipulated period, the Procurer may terminate the PPA and acquire the Project assets for an amount equivalent to 90% of the debt due, failing which, the lenders may exercise their mortgage rights and liquidate the Project assets.”

**May be read as under:**

**“5.6.1. Generator Event of Default and the consequences thereof:**

- a) In the event the Solar Power Generator is unable to commission the plant within the stipulated time period, or fails to supply power in terms of the PPA, or assigns or novates any of its rights or obligations contrary to the terms of the PPA, or repudiates the PPA, or effectuates a change in control or shareholding of its promoters in breach of the provisions of the PPA, or commits any other acts or omissions as laid down in the PPA and is also unable to cure any of the aforesaid within the cure period, as may be provided in the PPA, the Solar Power Generator shall be construed to be in default.
- b) Upon being in default, the Solar Power Generator shall be liable to pay to the Procurer, damages, as provided in these Guidelines in Clause 14.3 for failure to commission within stipulated time and Clause 5.2.1(a) for failure to supply power in terms of the PPA. For other cases, pay to the Procurer, damages, equivalent to 6 (six) months, or balance PPA period whichever is less, of charges for its contracted capacity. The Procurer shall have the right to recover the said damages by way of forfeiture of bank guarantee, if any, without prejudice to resorting to any other legal course or remedy.
- c) In addition to the levy of damages as aforesaid, in the event of a default by the Solar Power Generator, the lenders shall be entitled to exercise their rights of substitution, in accordance with the substitution agreement provided in the PPA and in concurrence with the Procurers. However, in the event the lenders are unable to substitute the defaulting Solar Power Generator within the stipulated period, the Procurer may terminate the PPA and acquire the Project assets for an amount equivalent to 90% of the debt due, failing which, the lenders may exercise their mortgage rights and liquidate the Project assets.”

**2.8 The Para at point No. 5.6.2.:****“5.6.2. Procurer Event of Default and the consequences thereof:**

- a) If the Procurer is in default on account of reasons including inter alia failure to pay the monthly and/or supplementary bills within the stipulated time period or repudiation of the PPA, the defaulting Procurer shall, subject to the prior consent of the Solar Power Generator, novate its part of the PPA to any third party, including its Affiliates within the stipulated period.

- b) In the event the aforesaid novation is not acceptable to the Solar Power Generator, or if no offer of novation is made by the defaulting Procurer within the stipulated period, then the Solar Power Generator may terminate the PPA and at its discretion require the defaulting Procurer to either (i) takeover the Project assets by making a payment of the termination compensation equivalent to the amount of the debt due and the 150% (one hundred and fifty per cent) of the adjusted equity as detailed in the PPA or, (ii) pay to the Solar Power Generator, damages, equivalent to 6 (six) months, or balance PPA period whichever is less, of charges for its contracted capacity, with the Project assets being retained by the Solar Power Generator.

In the event of termination of PPA, any damages or charges payable to the STU/ CTU, for the connectivity of the plant, shall be borne by the Procurer.”

May be read as under:

**“5.6.2. Procurer Event of Default and the consequences thereof:**

- a) If the Procurer is in default on account of reasons including inter alia failure to pay the monthly and/or supplementary bills within the stipulated time period or repudiation of the PPA, the defaulting Procurer shall, subject to the prior consent of the Solar Power Generator, novate its part of the PPA to any third party, including its Affiliates within the stipulated period.
- b) In the event the aforesaid novation is not acceptable to the Solar Power Generator, or if no offer of novation is made by the defaulting Procurer within the stipulated period, then the Solar Power Generator may terminate the PPA and at its discretion, require the defaulting Procurer to either (i) takeover the Project assets by making a payment of the termination compensation equivalent to the amount of the debt due and the 110% (one hundred and ten per cent) of the adjusted equity as defined below, less Insurance Cover, if any, or, (ii) pay to the Solar Power Generator, damages, equivalent to 6 (six) months, or balance PPA period, whichever is less, of charges for its contracted capacity, with the Project assets being retained by the Solar Power Generator.
- c) In the event of termination of PPA, any damages or charges payable to the STU/ CTU, for the connectivity of the plant, shall be borne by the Procurer.
- d) **Adjusted Equity** means the Equity funded in Indian Rupees and adjusted on the first day of the current month (the “Reference Date”), in the manner set forth below, to reflect the change in its value on account of depreciation and variations in Wholesale Price Index (WPI), and for any Reference Date occurring between the first day of the month of Appointed Date (the date of achievement of Financial Closure) and the Reference Date;
- i. On or before Commercial Operation Date (COD), the Adjusted Equity shall be a sum equal to the Equity funded in Indian Rupees and expended on the Project, revised to the extent of one half of the variation in WPI occurring between the first day of the month of Appointed Date and Reference Date;
  - ii. An amount equal to the Adjusted Equity as on COD shall be deemed to be the base (the “Base Adjusted Equity”);
  - iii. After COD, the Adjusted Equity hereunder shall be a sum equal to the Base Adjusted Equity, reduced by 0.333% (zero point three threethree percent) thereof at the commencement of each month following the COD [*reduction of 1% (one percent) per quarter of an year*] and the amount so arrived at shall be revised to the extent of variation in WPI occurring between the COD and the Reference Date;

For the avoidance of doubt, the Adjusted Equity shall, in the event of termination, be computed as on the Reference Date immediately preceding the Transfer Date; provided that no reduction in the Adjusted Equity shall be made for a period equal to the duration, if any, for which the PPA period is extended, but the revision on account of WPI shall continue to be made.

- e) **Debt Due** means the aggregate of the following sums expressed in Indian Rupees outstanding on the Transfer Date:
- i. The principal amount of the debt provided by the Senior Lenders under the Financing Agreements for financing the Total Project Cost (the 'Principal') but excluding any part of the principal that had fallen due for repayment 2 (two) years prior to the Transfer Date;
  - ii. All accrued interest, financing fees and charges payable under the Financing Agreements on, or in respect of, the debt referred to in sub-clause 5.6.2(e)(i) above until the Transfer Date but excluding: (i) any interest, fees or charges that had fallen due one year prior to the Transfer Date, (ii) any penal interest or charges payable under the Financing Agreements to any Senior Lender, (iii) any pre-payment charges in relation to accelerated repayment of debt except where such charges have arisen due to Utility Default, and (iv) any Subordinated Debt which is included in the Financial Package and disbursed by lenders for financing the Total Project Cost.

Provided that if all or any part of the Debt Due is convertible into Equity at the option of Senior Lenders and/or the Concessionaire, it shall for the purposes of this Agreement be deemed not to be Debt Due even if no such conversion has taken place and the principal thereof shall be dealt with as if such conversion had been undertaken.

Provided further that the Debt Due, on or after COD, shall in no case exceed 80% (eighty percent) of the Total Project Cost."

## 2.9 The Para at point No. 10.:

### "10. CONTRACT AWARD AND CONCLUSION

- 10.1 The PPA shall be signed with the successful bidder/ project company or an SPV formed by the successful bidder.
- 10.2 After the conclusion of bidding process, the Evaluation Committee constituted for evaluation of RfS bids shall critically evaluate the bids and certify as appropriate that the bidding process and the evaluation has been conducted in conformity to the provisions of the RfS.
- 10.3 For the purpose of transparency, the Procurer shall, after the execution of the PPA, publicly disclose the name(s) of the successful bidder(s) and the tariff quoted by them together with breakup into components, if any. The public disclosure shall be made by posting the requisite details on the website of the Procurer for at least 30 (thirty) days.
- 10.4 Subject to provisions of the Act, the distribution licensee or the Intermediary Procurer, as the case, shall approach the Appropriate Commission for adoption of tariffs by the Appropriate Commission in terms of Section 63 of the Act."

### May be read as under:

### "10. CONTRACT AWARD AND CONCLUSION

- 10.1 The PPA shall be signed with the successful bidder/ project company or an SPV formed by the successful bidder.
- 10.2 After the conclusion of bidding process, the Evaluation Committee constituted for evaluation of RfS bids shall critically evaluate the bids and certify as appropriate that the bidding process and the evaluation has been conducted in conformity to the provisions of the RfS.
- 10.3 For the purpose of transparency, the Procurer shall, after the execution of the PPA, publicly disclose the name(s) of the successful bidder(s) and the tariff quoted by them together with breakup into components, if any. The public disclosure shall be made by posting the requisite details on the website of the Procurer for at least 30 (thirty) days.
- 10.4 Subject to provisions of the Act, the distribution licensee or the Intermediary Procurer, as the

case may be, shall approach the Appropriate Commission for adoption of tariffs by the Appropriate Commission in terms of Section 63 of the Act. In case, the Appropriate Commission does not decide upon the same within sixty days of such submission, the tariffs shall be deemed to be have been adopted by the Appropriate Commission.”

**2.10 The Para at point No. 12.:**

**“12. Financial Closure:**

Solar Power Generator shall attain the financial closure in terms of the PPA, within 9 (nine) months from the date of execution of the Power Purchase Agreement, for projects being set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects being set up outside Solar park. However, if for any reason, the time period for attaining the financial closure needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same.

Failing the aforesaid, the Procurer shall encash the PBG unless the delay is on account of delay in allotment of land by the Procurer in terms of Clause 3.2.1 and Clause 3.2.2 or delay in allotment of land by the Government not owing to any action or inaction on the part of the Solar Power Generator or caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by the Procurer, on the sole request of the Solar Power Generator, on payment of a penalty as specified in the PPA. This extension will not have any impact on the SCD. Any penalty paid so, shall be returned to the Solar Power Generator without any interest on achievement of successful commissioning within the SCD.

**May be read as under:**

**“12.0. Financial Closure:**

(a). Solar Power Generator shall attain the financial closure in terms of the PPA, within 9 (nine) months from the date of execution of the Power Purchase Agreement, for projects specified to be set up in Solar park, and within 12 (twelve) months from the date of execution of the Power Purchase Agreement, for projects not specified to be set up in Solar park. However, if for any reason, the time period for attaining the financial closure needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same.

(b). Failing the aforesaid, the Procurer shall encash the PBG unless the delay is on account of delay in allotment of land by the Procurer in terms of Clause 3.2.1 and Clause 3.2.2 or delay in allotment of land by the Government not owing to any action or inaction on the part of the Solar Power Generator or caused due to a Force Majeure. An extension for the attainment of the financial closure can however be considered by the Procurer, on the sole request of the Solar Power Generator, on payment of a penalty as specified in the PPA. This extension will not have any impact on the SCD. Any penalty paid so, shall be returned to the Solar Power Generator without any interest on achievement of successful commissioning within the SCD.

(c). It is presumed that in terms of Clause 10.4 of these Guidelines, the tariff will be adopted by the Appropriate Commission within 60 days of such submission. However, notwithstanding anything contained in these Guidelines, any delay in adoption of tariff by the Appropriate Commission, beyond 60 (sixty) days, shall entail a corresponding extension in financial closure.”

**2.11 The Para at point No. 14.3.:**

**“14.3. Commissioning Schedule:**

The projects shall be commissioned, within a period of 15 (fifteen) months from the date of execution of the PPA, for projects being set up in Solar park, and within a period of 18 (eighteen) months from the date of execution of the PPA, for projects being set up outside Solar park. However, if for some reason, the scheduled commissioning period needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same. Delay in commissioning, beyond the Scheduled Commissioning Period shall involve

penalties on the Solar Power Generator, as detailed out in PPA. In case of site specified by the Procurer, any delay in handing over land to the Solar Power Generator in accordance with the given timelines, shall entail a corresponding extension in financial closure and scheduled commissioning date, provided that the maximum extension shall be limited to a period of 1 year commencing from the expiry of date of handing over of balance 10% of land in terms of Clause 3.2.1 (a).”

**May be read as under:**

**“14.3. Commissioning Schedule:**

(i). The projects shall be commissioned, within a period of 15 (fifteen) months from the date of execution of the PPA, for projects specified to be set up in Solar park, and within a period of 18 (eighteen) months from the date of execution of the PPA, for projects not specified to be set up in Solar park. However, if for some reason, the scheduled commissioning period needs to be kept smaller than that provided in these Guidelines, the Procurer can do the same. Subject to clause no. 5.4 of these Guidelines, delay in commissioning, beyond the Scheduled Commissioning Period shall involve penalties, on the Solar Power Generator, as detailed below:

- a) For Delay in commissioning upto 6 (six) months from SCD, encashment of Performance Bank Guarantee (PBG) on per day basis and proportionate to the capacity not commissioned.
- b) For Delay in commissioning beyond six months from SCD, Generator Event of Default, as per clause 5.6.1 of these Guidelines, shall be considered to have occurred and the contracted capacity shall stand reduced to the project capacity commissioned upto SCD + 6 (six) months. The PPA for the balance capacity not commissioned shall be terminated.

(ii). In case of site specified by the Procurer, any delay in handing over land to the Solar Power Generator in accordance with the given timelines, shall entail a corresponding extension in financial closure and scheduled commissioning date, provided that the maximum extension shall be limited to a period of 1 year commencing from the expiry of date of handing over of balance 10% of land in terms of Clause 3.2.1 (a).

(iii). It is presumed that in terms of Clause 10.4 of these Guidelines, the tariff will be adopted by the Appropriate Commission within 60 days of such submission. However, notwithstanding anything contained in these Guidelines, any delay in adoption of tariff by the Appropriate Commission, beyond 60 (sixty) days, shall entail a corresponding extension in scheduled commissioning date.”

AMITESH KUMAR SINHA, Jt. Secy.

सुरक्षा निधि में जमा कर दी जाएगी। परियोजना के चालू हो जाने के 45 दिनों के भीतर उत्पादक को पीबीजी लौटा दी जाएगी। यदि आंशिक रूप से चालू की जाती है, तो चालू की गई आंशिक क्षमता के अनुरूप ऐसे आंशिक रूप से चालू किये जाने के 45 दिनों के भीतर पीबीजी जारी की जाएगी।

- 11.2.4** यदि सौर विद्युत उत्पादक, विद्युत खरीद समझौते (पीपीए) के सन्दर्भ में सौर विद्युत उत्पादक द्वारा चूक की स्थिति उत्पन्न होने पर बैंक गारंटी के स्थान पर भारतीय अक्षय ऊर्जा विकास एजेंसी लि. (इरेडा) या पावर फाइनेंस लि. (पीएफसी) या आरईसी लि. (आरईसी) से भुगतान के लिए "भुगतान आदेश दस्तावेज"/वचन पत्र प्रस्तुत करने में सक्षम है तो खरीदार सौर विद्युत उत्पादक द्वारा प्रस्तुत की गई निष्पादन बैंक गारंटी (पीबीजी) के रूप में बैंक गारंटी अवमुक्त कर सकता है। सौर विद्युत उत्पादक ऐसे पत्र(त्रों) की मांग उपरोक्त तीनों गैर-बैंकिंग संस्थाओं (इरेडा, पीएफसी और आरईसी) से उचित जमा राशि की पेशकश करके कर सकते हैं ताकि खरीदकर्ता(ओं) को पहले ही किये गए वादे के अनुसार उनकी बैंक गारंटियों के स्थान पर अन्य गारंटी दी जा सके।”

अमितेश कुमार सिन्हा, संयुक्त सचिव

## MINISTRY OF NEW AND RENEWABLE ENERGY

### RESOLUTION

New Delhi, the 25th September, 2020

#### **Amendments to the Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects**

##### **No. 283/57/2018-GRID SOLAR.—**

**1.0** The Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects have been notified under the provisions of Section 63 of the Electricity Act, 2003 *vide* resolution No. 23/27/2017-R&R dated 3<sup>rd</sup> August, 2017, published in the Gazette of India (Extraordinary) (Part I—Section 1), and have been amended *vide* resolution No. 23/27/2017-R&R dated 14<sup>th</sup> June, 2018, resolution No. 23/27/2017-R&R dated 3<sup>rd</sup> January, 2019, resolution No. 23/27/2017-R&R dated 9<sup>th</sup> July, 2019 and resolution No. 283/57/2018-GRID SOLAR dated 22<sup>nd</sup> October, 2019, published in the Gazette of India (Extraordinary) (Part I—Section 1).

**2.0** The following amendments are hereby made in the said guidelines of 3<sup>rd</sup> August, 2017, amended on 14<sup>th</sup> June 2018, 3<sup>rd</sup> January, 2019, 9<sup>th</sup> July, 2019 and 22<sup>nd</sup> October, 2019, namely:-

##### **2.1 The Para at point No. 13:**

#### **“13 MINIMUM PAID UP SHARE CAPITAL TO BE HELD BY THE PROMOTER**

- 13.1** The successful bidder, if being a single company, shall ensure that its shareholding in the SPV/project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 3 (three) years from the COD (as defined in Clause 15), except with the prior approval of the Procurer. In the event the successful bidder is a consortium, then the combined shareholding of the consortium members in the SPV/project company executing the PPA, shall not fall below 51% at any time prior to 3 (three) years from the COD, except with the prior approval of the Procurer. Further, the successful bidder shall ensure that its promoters shall not cede control<sup>2</sup> of the bidding company/consortium till 3 (three) years from the COD, except with the prior approval of the Procurer. In this case it shall also be essential that the successful bidder shall provide the information about its promoters and their shareholding to the Procurer before signing of the PPA with Procurer.

**13.2** Any change in the shareholding after the expiry of 3 (three) years from the COD can be undertaken under intimation to Procurer.

**13.3** In the event the Solar Power Generator is in default to the lender(s), lenders shall be entitled to undertake ‘**Substitution of Promoter**’ in concurrence with the Procurers.”

<sup>2</sup>The expression ‘control’ shall mean the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such Company or right to appoint majority Directors.

**May be read as under:**

**“13 MINIMUM PAID UP SHARE CAPITAL TO BE HELD BY THE PROMOTER**

**13.1** The successful bidder, if being a single company, shall ensure that its shareholding in the SPV/project company executing the PPA shall not fall below 51% (fifty-one per cent) at any time prior to 1 (one) year from the COD (as defined in Clause 15), except with the prior approval of the Procurer. In the event the successful bidder is a consortium, then the combined shareholding of the consortium members in the SPV/project company executing the PPA, shall not fall below 51% at any time prior to 1 (one) year from the COD, except with the prior approval of the Procurer. Further, the successful bidder shall ensure that its promoters shall not cede control<sup>2</sup> of the bidding company/ consortium till 1 (one) year from the COD, except with the prior approval of the Procurer. In this case it shall also be essential that the successful bidder shall provide the information about its promoters and their shareholding to the Procurer before signing of the PPA with Procurer.

**13.2** Any change in the shareholding after the expiry of 1 (one) year from the COD can be undertaken under intimation to Procurer.

**13.3** In the event the Solar Power Generator is in default to the lender(s), lenders shall be entitled to undertake ‘**Substitution of Promoter**’ in concurrence with the Procurers.”

<sup>2</sup>The expression ‘control’ shall mean the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such Company or right to appoint majority Directors.

**2.2 The Para at point No. 7.3:**

**“7.3 Quantum of the Earnest Money Deposit (EMD)**

Quantum of the Earnest Money Deposit (EMD) in the form of a bank guarantee, to be furnished by the bidders. The EMD shall stand forfeited in the event of failure of the Solar Power Generator to execute the PPA within the stipulated time period.”

**May be read as under:**

**“7.3 Quantum of the Earnest Money Deposit (EMD)**

Quantum of the Earnest Money Deposit (EMD) in the form of a bank guarantee/ letter of undertaking to pay/ Payment of Order Instrument, to be furnished by the bidders. The EMD shall stand forfeited in the event of failure of the Solar Power Generator to execute the PPA within the stipulated time period.”

**2.3 The Para at point No. 11:**

**“11. BANK GUARANTEES**

The Solar Power Generator shall provide the following bank guarantees to the Procurer in terms of the RfS and the PPA:

**11.1 Earnest Money Deposit (EMD)**, to be fixed by the Procurer [but not to be more than 2% (two percent) of the Solar PV power project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost], to be submitted in the form of a bank guarantee along with response to RfS.

**11.2 Performance Bank Guarantee (PBG)**, to be fixed by the Procurer [but not to be more than 4% (four per cent), in case of site specified by the Procurer, and 5% (five per

cent), in case of site selected by the Solar Power Generator, of the Project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost] to be submitted at the time of signing of the PPA. In addition to the other remedies, this PBG can be encashed to recover any damages/dues of the Solar Power Generator in terms of the PPA. It is hereby clarified that the damages/dues recovered by the Intermediary Procurer by encashing the PBG, upon the default of the Solar Power Generator under the PPA, shall be credited to the Payment Security Fund to be maintained by the Intermediary Procurer under Clause 5.3.2.a.ii. of 'Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects'."

**May be read as under:**

**“11. GUARANTEES**

The Solar Power Generator shall provide the following guarantees to the Procurer in terms of the RfS and the PPA:

**11.1 Earnest Money Deposit (EMD)**, to be fixed by the Procurer, [but not to be more than 2% (two per cent) of the estimated capital cost of the Solar PV power project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost], to be submitted along with response to RfS, in the form of:

(a) Bank Guarantee(s);

**OR**

(b) "Payment on Order instrument" / Letter of Undertaking, to pay in case situation of default of solar power generator in terms of tender condition arises, from Indian Renewable Energy Development Agency (IREDA)/ Power Finance Corporation Limited (PFC)/ REC Limited (REC).

*"Payment on Order instrument" means Letter of Undertaking from Indian Renewable Energy Development Agency Limited (IREDA) or Power Finance Corporation Limited (PFC) or REC Limited (REC) [the three non-banking financial institutions under Ministry of New & Renewable Energy (MNRE)/ Ministry of Power (MoP)], to pay in case situation of default of solar power generator in terms of tender conditions/Power Purchase Agreement (PPA) arises. Such Letter(s) will have same effect as that of a Bank Guarantee issued by any public sector bank. Such "Payment on Order instrument" would have terms and conditions similar to that of any Bank Guarantee given by any public sector bank and would promise to pay the Procurer on demand within stipulated time. Solar power generators can seek such Letters(s) by offering due security to the above mentioned three non-banking financial institutions mentioned above (IREDA, PFC & REC). Procurer(s) shall not accept the instrument of 'Letter of Undertaking' as described above or in any other form, from any other non-banking financial institutions or bank, except IREDA, PFC & REC.*

**11.2 Performance Bank Guarantee (PBG)/ Performance Guarantee (PG)**

**11.2.1** Performance Guarantee (PG), to be fixed by the Procurer [but not to be more than 4% (four per cent), in case of site specified by the Procurer, and 5% (five per cent), in case of site selected by the Solar Power Generator, of the Project cost, as determined by CERC, if any, for the financial year in which the bids are invited or the estimated project cost] to be submitted at the time of signing of the PPA, in the form of:

(a) Bank Guarantee(s);

**OR**

(b) "Payment on Order instrument"/Letter of Undertaking to pay in case situation of default of solar power generator in terms of Power Purchase Agreement (PPA) arises, from Indian Renewable Energy Development Agency (IREDA)/Power Finance Corporation Limited (PFC) and REC Limited (REC);



- 11.2.2** Performance Bank Guarantee (PBG) wherever mentioned in these guidelines shall refer to Performance Guarantee (PG) in the form of Bank Guarantee or alternatives provided thereto as per these Guidelines.
- 11.2.3** In addition to the other remedies, this PBG can be encashed to recover any damages/dues of the Solar Power Generator in terms of the PPA. It is hereby clarified that the damages/dues recovered by the Intermediary Procurer by encashing the PBG, upon the default of the Solar Power Generator under the PPA, shall be credited to the Payment Security Fund to be maintained by the Intermediary Procurer under clause 5.3.2.a.ii of 'Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects'. PBG shall be returned to the generator within 45 days of the commissioning of the project. In case of part commissioning, PBG, corresponding to the part capacity commissioned, should be released within 45 days of such part-commissioning.
- 11.2.4** Procurer(s) may release the Bank Guarantees submitted by a Solar Power Generator as 'Performance Bank Guarantee (PBG)' if the Solar Power Generator is able to replace the same with "Payment on Order instrument"/Letter(s) of Undertaking from Indian Renewable Energy Development Agency Limited (IREDA) or Power Finance Corporation Limited (PFC) or REC Limited (REC) to pay in case situation of default of Solar Power Generator in terms of Power Purchase Agreement (PPA) arises. Solar Power Generators can seek such Letters(s) by offering due security to the above mentioned three non-banking financial institutions (IREDA, PFC & REC) for seeking replacement of their Bank Guarantees already pledged with the Procurer(s)."

AMITESH KUMAR SINHA, Jt. Secy.