



Registration and Stamp Department Madhya Pradesh

Certificate of Stamp Duty

E-Stamp Details

E-Stamp Code: 01010506092019000175
Total E-Stamp Amount: 500
Govt. Stamp Duty (Rs.): 500 Municipality Duty (Rs.): 0
Janpad Duty (Rs.): 0 Upkar Amount (Rs.): 0
Exempted Amount(Rs.): 0
E-Stamp Type: NON-JUDICIAL
Issue Date & Time: 06/09/2019 10:01:40
Service Provider or Issuer Details: SAVITA NILESH BORDE/SP014842705201800017
SP/SRO/DRO/HO Details: VISION ENTERPRISES, D-12, PRAGATI NAGAR, NEAR NAGAR NIGAM BURHANPUR
MP 4503319479809038 BURHANPUR BURHANPUR

Deed Details

Deed Type: Agreement or Memorandum of an agreement
Deed Instrument: If not otherwise provided for- Five hundred rupees
Purpose: Agreement or Memorandum of an agreement

First Party Details

Organization Name: Cleantech Solar Energy (India) Private Limited 401
Address: 1st party Name :-Cleantech Solar Energy (India) Private Limited 401-A, Shree Guru
Harikrishna Bhavan, Dr. Charat Singh Colony, A.K. Road, Andheri (East)
Mumbai-400093(Maharashtra) through Bhopal Madhya Pradesh BHOPAL Madhya Pradesh
INDIA
Number of Persons: 1

Second Party Details

Organization Name: Indian Institute of Management, Indore Prabandh Sh
Address: Indian Institute of Management, IndorePrabandh Shikhar, Rau-Pithampur Road,
Indore-453556 INDORE Madhya Pradesh INDIA
Number of Persons: 1

1st party Name :-Cleantech Solar Energy (India) Private Limited 401-A, Shree Guru Harikrishna Bhavan, Dr. Charat Singh
Colony, A.K. Road, Andheri (East) Mumbai-400093(Maharashtra) through Bhopal Madhya Pradesh
AND 2nd party Name :-Indian Institute of Management, IndorePrabandh Shikhar, Rau-Pithampur Road, Indore-453556

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BORDE
Date: 2019.09.06 10:01:43
IST





Registration and Stamp Department Madhya Pradesh

Certificate of Stamp Duty

E-Stamp Details

E-Stamp Code 01010506092019000169
Total E-Stamp Amount 500
Govt. Stamp Duty (Rs.) 500 Municipality Duty (Rs.) 0
Janpad Duty (Rs.) 0 Upkar Amount (Rs.) 0
Exempted Amount (Rs.) 0
E-Stamp Type NON-JUDICIAL
Issue Date & Time 06/09/2019 09:59:42
Service Provider or Issuer Details SAVITA NILESH BORDE/SP014842705201800017
SP/SRO/DRO/HO Details VISION ENTERPRISES, D-12, PRAGATI NAGAR, NEAR NAGAR NIGAM BURHANPUR
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AND 2nd party Name :- Indian Institute of Management, Indore Prabandh Shikhar, Rau-Pithampur Road, Indore-453556

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Date: 2019.09.06 09:59:46
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POWER PURCHASE AGREEMENT (PPA)

For

PROCUREMENT OF 485 kWp SOLAR POWER ON LONG TERM BASIS

(Under RESCO Model)

Between

Cleantech Solar Energy (India) Private Limited
(Power Producer)

And

Indian Institute of Management, Indore
(Procurer)

15TH October, 2019



This Power Purchase Agreement is signed on the 15th Day of OCTOBER of 2019 at INDORE.

Between

Cleantech Solar Energy (India) Private Limited, a Company submitting the Bid incorporated under the Appropriate Act /any other relevant laws as applicable, having its registered office at 401A, Shree Guru Harkrishna Bhavan, Dr. Charat Singh Colony, A. K. Road, Andheri (East), Mumbai - 400093, Maharashtra, (hereinafter referred to as "Power Producer", which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns) as a Party of the first part;

And

Indian Institute of Management Indore, having its registered office at Prabandh Shikhar, Rau-Pithampur Road, Indore - 453556, Madhya Pradesh, India (hereinafter referred to as "Procurer", which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and assigns) as a Party of the second part.

The Power Producer and Procurer are individually referred to as 'Party' and collectively referred to as 'Parties'.

Whereas:

- A. Nodal Agency has identified the Procurer for procuring the grid interactive rooftop solar PV Project.
- B. After meeting the eligibility requirements, the Power Producer has been selected by Nodal Agency for development of solar power Project, generation and sale of solar energy.
- C. The Power Producer has been notified by Nodal Agency for "Design, engineering, supply, installation, erection, testing & Commissioning along with Comprehensive Operation and Maintenance (O&M) of the Grid Connected Rooftop Solar Project for Sale of Solar Power for a period of 25 Operational Years" and has been awarded 485 kWp of capacity in as per technical specification & other details of the RFP no. MPUVN/GCRT-RESCO 2018-19/2575 dated 12th September 2018 and this PPA.
- D. Pursuant to the issuance of Letter Inviting Consent for Agreement (LICA) by Nodal Agency for signing of PPA and other agreement, if any, the Power Producer has agreed to set-up solar PV Project based on Photovoltaic technology of 485 kWp capacity at the Premises of Procurer at Indian Institute of Management Indore.
- E. The Power Producer is engaged in the business of building and operating power plants, including grid interactive rooftop solar PV Project.



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RESCO Phase-II Power Purchase Agreement

- F. The Power Producer has agreed to sign this PPA with Procurer to sell solar power from the Project to Procurer as per the terms and conditions of this PPA read in conjunction with those of RFP.
- G. Procurer has agreed to purchase such solar power from Power Producer for consumption within Premise.
- H. Procurer agrees to procure entire power from the Power Producer up to the PPA Capacity at Tariff offered by Power Producer and finalized through the selection process as per the terms of RFP.
- I. The Parties, hereby, agree to execute this PPA setting out the terms and conditions for the sale of power by Power Producer to Procurer.

Now therefore, in consideration of the premises and mutual agreements, covenants and conditions set forth herein, it is hereby agreed by and between the Parties as follows:



ARTICLE 1: DEFINITIONS AND INTERPRETATION

1.1 Definitions

The terms used in this PPA, unless as defined below or repugnant to the context, shall have the same meaning as assigned to them by the Electricity Act, 2003 and the rules or regulations framed there under, including those issued / framed by the Appropriate Commission (as defined hereunder), as amended or re-enacted from time to time.

"Act" or "Electricity Act, 2003"	shall mean the Electricity Act, 2003 and include any amendments and substitution from time to time;
"Agreement"	shall mean agreement executed thereof between Power Producer and Procurer for power purchase, and permission for use of whole Premise or part thereof and other related documents, including the schedules, amendments, modification and supplements made in writing by the parties from time to time;
"Affected Party"	shall have meaning as per ARTICLE 10:
"Appropriate Commission"	shall mean the State Electricity Regulatory Commission referred to in section 82 of the Electricity Act 2003 (as amended from time to time);
"Bid"	shall mean technical Bid or/ and Financial Bid submitted by a Bidder, in response to RFP, in accordance with the terms and conditions of the RFP;
"Bid Documents" or "Bidding Documents"	means the RFP No. MPUVN/GCRT-RESCO 2018-19/2575 dated 12 th September, 2018 along with all its attachments or/ and any amendments thereto or clarifications thereof.
"Bill Dispute Notice"	shall mean the notice issued by a Party raising a Dispute regarding a Monthly Bill or a Supplementary Bill issued by the other Party;
"Business Day"	shall mean with respect to Power Producer and Procurer, a Day other than Sunday/ public holiday or a statutory holiday, on which the banks remain open for business in Bhopal;
"Capacity Utilisation Factor" or "CUF"	(CUF) in a Year shall mean the ratio of the output of the SPV Power Plant in a Year versus installed Project capacity x 365 x 24. (CUF = Cumulative Project output in kWh / (installed Project capacity in kWp x 24 x 365)); However, for demonstration of successful Completion, CUF shall mean the ratio of the output of the SPV Power Plant in a day versus installed Project capacity x 1 x 24, adjusted to seasonality as per provisions of Article 4.10.
"CERC"	shall mean the Central Electricity Regulatory Commission of India, constituted under sub – section (1) of Section 76 of the Electricity Act, 2003, or its successors;
"Category 1, Category 2 and Category 3"	shall mean as categories notified under Madhya Pradesh Policy for Decentralized Renewable Energy System, 2016 and its amendment



	and substitution from time to time.
"Change in Law"	shall have the meaning ascribed thereto in ARTICLE 11: of this PPA;
"Completion"	As defined in Article 5.2.2 of this PPA.
"Commissioning"	shall have the meaning ascribed in ARTICLE 5: of this PPA;
"Commercial Operation Date" or "COD"	shall mean the Day when full PPA Capacity of the Project is commissioned;
"Competent Authority"	shall mean Managing Director of MPUVNL, himself and/or a person or group of persons nominated by him for the mentioned purpose herein;
"Competent Court of Law"	shall mean any court or tribunal or any similar judicial or quasi-judicial body in India that has jurisdiction to adjudicate upon issues relating to this PPA;
"Consents, Clearances and/ or Permits" or "Consents"	shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the purpose of setting up of the generation facilities and/ or supply of power;
"Consumer(s)"	shall mean any person who is supplied electricity for his own use by a licensee or the Government or by any other person engaged in the business of supplying electricity to the public under the Act or any other law for the time being in force and includes any person whose Premises are, for the time being, connected for the purpose of receiving electricity with the works of a Distribution Licensee, the Government or such other person, as the case may be. Users who have merely wheeling/ supply arrangements with the licensee are also covered as Consumers;
"Construction Period"	shall mean the period between the Effective Date and COD of full PPA Capacity;
"Consultation Period"	shall mean the period of sixty (60) Days or such other longer/ shorter period as the Parties may agree, commencing from the date of issuance of a Power Producer Preliminary Default Notice or Procurer Preliminary Default Notice as provided in ARTICLE 12: of this PPA, for consultation between the Parties to mitigate the consequence of the relevant event having regard to all the circumstances;
"Day(s)"	shall mean a 24 (twenty four) hour period beginning at 00:00 hours Indian Standard Time and ending at 23:59:59 hours Indian Standard Time;
"Delivery Point(s)"	shall mean such points, at such a location mutually agreed by the parties, in line with applicable policy/ regulation/ rules, where solar power is delivered by the Power Producer from the Project to the Procurer, in such a way as to enable measurement of gross energy generated by Project. Multiple Delivery Points are possible even in



	case of a single Project;
"Deemed Generation"	shall mean energy (in units or kWh) deemed to have been generated per day average from the Project in the same month of previous Year or, if the period of consideration is within the first twelve (12) Months of Operation, the deemed generation per day will be equal to multiplication of PPA Capacity (kWp) and 3.6; where in if the affected period between 6 am to 6 pm, it could be prorated for on hourly basis by considering 12 hours of operation;
"Designated Bank Account"	Shall mean a bank account opened as stated by the lender, which will be used only for transactions, related the assets funded by the lender.
"Discom" or "Discom(s)"	shall mean the local distribution utility providing electric distribution and interconnection services to Procurer at the Premises of Procurer;
"Dispute"	shall mean any dispute or difference of any kind between Procurer and the Power Producer, in connection with or arising out of this PPA including but not limited to any issue on the interpretation and scope of the terms of this PPA or/ and relevant provisions of RFP;
"DREO"	shall mean District Renewable Energy Officer, an authorized representative of Nodal Agency;
"Due Date"	shall have the same meaning ascribed thereto in Article 8.3 of this PPA;
"Effective Date"	shall have the meaning ascribed thereto in Article 2.1 of this PPA;
"Electricity Laws"	shall mean the Electricity Act, 2003 and the rules and regulations made there under from time to time along with amendments thereto and replacements thereof and any other Law pertaining to electricity including regulations framed by the Appropriate Commission;
"Event of Default"	shall mean the events as defined in ARTICLE 12: of this PPA;
"Expiry Date"	shall mean the 25 th anniversary of the Scheduled Commercial Operation Date of the Project for full PPA Capacity, considering the extensions granted, if any, by Nodal Agency;
"Financing Agreements"	shall mean the agreements pursuant to which the Power Producer has sought financing for the Project including the loan agreements, security documents, notes, indentures, security agreements, letters of credit and other documents, as may be amended, modified, or replaced from time to time, but without in anyway increasing the liabilities of Procurer;
"First Operational Year"	shall mean the period commencing from the Initial Part Commissioning and expiring at the end of the Calendar Month in which Project completes twelve (12) Months from the COD;
"Force Majeure" or "Force Majeure Event"	shall have the meaning ascribed thereto in ARTICLE 10: of this PPA;
"Functional / Technical"	means the technical requirements and parameters described in of this

Specifications"	Technical Specifications of PPA and as provided in Grid Code relating to the operation, maintenance and dispatch of the Project;
"Grid Code" / "IEGC" or "State Grid Code"	shall mean the Grid Code specified by the CERC under Clause (h) of Sub-section (1) of Section 79 of the Electricity Act, as amended from time to time, and/or the State Grid Code as specified by the concerned State Commission, referred under Clause (h) of Subsection (1) of Section 86 of the Electricity Act 2003, as applicable;
"Indian Governmental Instrumentality"	shall mean the Government of India, Governments of state(s) of Madhya Pradesh and any ministry, department, board, authority, agency, corporation, commission under the direct or indirect control of Government of India or any of the above state Government(s) or both, any political sub-division of any of them including any court or Appropriate Commission(s) or tribunal or judicial or quasi-judicial body in India;
"Initial Part Commissioning"	shall mean the commissioning of first part capacity of PPA Capacity by Power Producer, and shall include CoD if the entire project is commissioned together;
"Insurances"	shall mean the insurance cover to be obtained and maintained by the Power Producer in accordance with ARTICLE 9: of this PPA;
"Invoice" or "Bill"	shall mean either a Monthly Bill / Supplementary Bill or a Monthly Invoice/ Supplementary Invoice raised by any of the Parties;
"Late Payment Surcharge"	shall have the meaning ascribed thereto in Article 8.5.1 of this PPA;
"Liquidated Damages or LD"	shall mean the penalty levied on the Power Producer due to delay in commencement of supply of solar power, from the SCOD or extended SCOD in accordance with Article 4.20 to Procurer;
"Law"	shall mean in relation to this PPA, all laws including Electricity Laws in force in India and any statute, ordinance, regulation, notification or code, rule, or any interpretation of any of them by an Indian Governmental Instrumentality and having force of law and shall further include without limitation all applicable rules, regulations, orders, notifications by an Indian Governmental Instrumentality pursuant to or under any of them and shall include without limitation all rules, regulations, decisions and orders of the Appropriate Commissions;
"Lenders"	means the banks, other financial institutions, multilateral agencies, Reserve Bank of India registered non-banking financial companies, mutual funds and agents or trustees of debenture / bond holders, including their successors and assignees, who have agreed as on or before COD of the grid interactive rooftop solar PV Project to provide the Power Producer with the senior debt financing described in the Capital Structure Schedule, and any successor banks or financial institutions to whom their interests under the Financing Agreements



	<p>may be transferred or assigned:</p> <p>Provided that, such assignment or transfer shall not relieve the Power Producer of its obligations to Procurer under this PPA in any manner and shall also does not lead to an increase in the liability of any of Procurer;</p>
"Letter of Credit" or "L C"	shall have the meaning ascribed thereto in Article 8.8 of this PPA;
"Meters" or "Metering System"	means meter(s) and metering devices owned by the Power Producer and installed at the Delivery Point(s) for measuring and recording the delivery and receipt of solar energy, as required by a Project as per RFP;
"Metering Date"	means the first Business Day of each calendar month, subsequent to the month in which the solar power is generated by Project, on which the Power Producer takes joint meter reading with the Procurer. The billable units shall be equal to the difference between the meter reading on the Metering Date and the meter reading on the previous month's Metering Date;
"Maintenance Outage"	shall have the meaning as ascribed to this term as per the provisions of the Grid Code;
"Minimum CUF"	shall mean the 12% CUF to be maintained by the Generator for each and every Operational Year;
"Month(s)"	shall mean a calendar month as per the Gregorian calendar;
"Nodal Agency"	shall mean Madhya Pradesh Urja Vikas Nigam Limited;
"Nodal Agency's"	
"Normative Project Cost"	Benchmark Capex for 2018-19 notified by MNRE + Lower of (SOR cost, Actual cost) for any additional work done.
Designated Bank Account"	Shall mean a Bank Account as notified by MPUVNL which shall be used for transaction with parties under this RfP.
"Operational Year(s)"	shall mean the First Operational Year and thereafter each period of 12 (twelve) Months till the Expiry Date of PPA;
Part Commissioning	shall mean the Commissioning of capacity lower than the PPA capacity for the purpose of receiving the Commissioning certificate for part capacity;
"Party" and "Parties"	shall have the meaning ascribed thereto in the recital to this PPA;
"Payment Security Mechanism"	shall have the meaning ascribed thereto in Article 8.8 of this PPA;
"Construction Performance Bank	Means the irrevocable, unconditional bank guarantee, to be submitted by the Power Producer to Nodal Agency in the form as mentioned in



Guarantee" or "C-PBG"	RFP and which shall include any additional bank guarantee furnished by the Power Producer under this PPA, if any;
"Performance Test "	means the test carried out in accordance with RFP;
"Power Purchase Agreement" or "PPA"	shall mean this Power Purchase Agreement including its recitals and Schedules, amended or modified from time to time in accordance with the terms hereof;
"PPA Capacity"	shall mean the capacity of 485 kWp or the capacity as approved by the Nodal Agency as per Article 3.2.3 for implementation of grid connected roof top solar PV Projects for sale of solar power to Procurer after undertaking a technical analysis of the likely capacity under the PPA, which shall be within 80% to 150% of the kWp as provided in the RFP;
"Preliminary Default Notice"	shall have the meaning ascribed thereto in ARTICLE 12: of this PPA;
"Premise(s)"	shall mean any land, building or structure or part thereof or combination thereof including any other vacant /non vacant area which is part of the Procurer establishment;
"Power Purchase Agreement" or "PPA"	shall mean this Power Purchase Agreement including its recitals and Schedules, amended or modified from time to time in accordance with the terms hereof;
"Procurer(s)"	shall mean the person or company or organization procuring solar power from the Power Producer at competitively determined tariff for at least 25 Operational Years;
"Project(s)"	means grid interactive rooftop solar PV project for which Power Producer has been given responsibility to design, engineering, supply, erection, testing, commissioning and comprehensive operation and maintenance and sale of solar power for a period of 25 Operational Years having any of the individual or combination of projects: a) grid connected net metered systems or b) grid connected systems for consumption within premises with no export of power.
"Project Documents"	Mean a) Power Purchase Agreement b) Land Lease or Land Use Permission Agreement c) Documents as required in RFP as well as RFP documents; and d) any other agreements designated in writing as such, from time to time, by Procurer and the Power Producer;
"Prudent Utility Practices"	shall mean the practices, methods and standards that are generally accepted internationally from time to time by electric utilities for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation and maintenance of power generation equipment and which practices, methods and standards shall be adjusted as necessary, to take account of: a) operation and maintenance guidelines recommended by the



	manufacturers of the plant and equipment to be incorporated in the Powerstation; b) the requirements of Indian Law; and c) the physical conditions at the site of the Project;
"Rebate"	shall have the same meaning as ascribed thereto in Article 8.6 of this PPA;
"RESCO MODEL"	shall mean where the Power Producer intend to use a Premise owned/used by the Procurer and enters into the PPA with Procurer for supply of Solar Power for 25 Operational Years at a tariff determined through mutual arrangement or competitive bidding;
"RFP"	shall mean Request For Proposal No. MPUVN/GCRT-RESCO 2018-19/2575 dated 12 th September, 2018, with all its terms and conditions along with all schedules, Annexure and RFP Project Documents attached thereto, issued by Nodal Agency and shall include any modifications, amendments or alterations thereto.
"Rupees" or "Rs"	shall mean Indian rupees, the lawful currency of India;
"Power Producer"	shall mean the Bidder selected pursuant to the RFP to set up the Project and supply power therefrom to Procurer as per the terms of PPA or/ and RFP;
"Scheduled Commercial Operation Date" or "SCOD"	shall mean date nine months from Effective Date under the PPA;
"Supplementary Bill" or "Supplementary Invoice"	means a bill other than a Monthly Bill or Monthly Invoice raised by any of the Parties in accordance with Article 8.7;
"Tariff"	shall have the same meaning as provided for in ARTICLE 8: of this PPA;
"Tariff Payment"	shall mean the payments to be made under Monthly Bills as referred to in Article 8.1.1 and the relevant Supplementary Bills in accordance with the Article 8.10;
"Termination Notice"	shall mean the notice given by either Parties for termination of this PPA in accordance with ARTICLE 12: of this PPA;
"Term of PPA"	shall have the meaning ascribed thereto in ARTICLE 2: of this PPA;
"Total Debt Amount"	means the sum of the following amounts, expressed in Rupees (with all amounts denominated in currencies other than Rupees being converted to Rupees at the Reference Exchange Rate, the selling rate in Rupees for the Foreign Currency on the relevant Day, as notified by the State Bank of India as its TT Rate at 12:00 noon on the date of issuance of Substitution Notice by the Lenders (a) the principal amount of the senior debt incurred by the Power Producer (as per the terms of the Financing agreements) to finance the



	<p>Project according to the Capital Structure Schedule which remains outstanding on the date of issuance of Substitution Notice by the Lender after taking account of any senior debt repayments which could have been made out of the Monthly Tariff Payments received by the Power Producer on or before the date of issuance of Substitution Notice by the Lender as per the terms provided in the Financing agreements ; and</p> <p>(b) all accrued interest and financing fees payable under the Financing agreements on the amounts referred to in (a) above from the date of supply of power till the date preceding the date of issuance of Substitution Notice by the Lender or, if supply of power has not yet begun, from the most recent date when interest and financing fees were capitalised, and</p> <p>(c) if this PPA is terminated during the Construction Period, any amounts owed to the construction contractor for work performed but not paid for under the construction contract (other than amounts falling due by reason of the Power Producer's default);</p>
Unavailability of Grid	shall mean any time when the grid is unavailable during solar operational hours starting from 06:00 hrs to 18:00 hrs in a day shall be considered as grid unavailability period;
"Week"	shall mean a calendar week commencing from 00:00 hours of Monday, and ending at 24:00 hours of the following Sunday;
"Year"	shall mean 365 days or 366 days in case of leap year when February is of 29 days;



1.2 Interpretation

Save where the contrary is indicated, any reference in this PPA to:

- 1.2.1. "PPA" shall be construed as including a reference to its Schedules and/or Appendices and/or Annexure;
- 1.2.2. An "Article", a "Recital", a "Schedule" and a "paragraph / clause" shall be construed as a reference to an Article, a Recital, a Schedule and a paragraph/clause respectively of this PPA;
- 1.2.3. An "affiliate" of any party shall mean a company that either directly or indirectly controls or is controlled by or is under common control of the same person which controls the concerned party; and control means ownership by one company of at least twenty six percent (26%) of the voting rights of the other company;
- 1.2.4. A "Crore" means a reference to ten million (10,000,000) and a "Lakh" means a reference to one tenth of a million (1,00,000);
- 1.2.5. An "encumbrance" shall be construed as a reference to a mortgage, charge, pledge, lien or other encumbrance securing any obligation of any person or any other type of preferential arrangement (including, without limitation, title transfer and retention arrangements) having a similar effect;
- 1.2.6. "Indebtedness" shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;
- 1.2.7. A "person" shall be construed as a reference to any person, firm, company, corporation, society, trust, government, state or agency of a state or any association or partnership (whether or not having separate legal personality) of two or more of the above and a person shall be construed as including a reference to its successors, permitted transferees and permitted assigns in accordance with their respective interests;
- 1.2.8. "Rupee", "Rupees", "INR" or "Rs" shall denote Indian Rupees, the lawful currency of India;
- 1.2.9. The "winding-up", "dissolution", "insolvency", or "reorganization" of a company or corporation shall be construed so as to include any equivalent or analogous proceedings under the Law of the jurisdiction in which such company or corporation is incorporated or any jurisdiction in which such company or corporation carries on business including the seeking of liquidation, winding-up, reorganization, dissolution, arrangement, protection or relief of debtors;
- 1.2.10. Words importing the singular shall include the plural and vice versa;
- 1.2.11. This PPA itself or any other PPA or document shall be construed as a reference to this or to such other PPA or document as it may have been, or may from time to time be, amended, varied, novated, replaced or supplemented;
- 1.2.12. A Law shall be construed as a reference to such Law including its amendments or re-enactments from time to time;
- 1.2.13. A time of Day shall, save as otherwise provided in any PPA or document be construed as



a reference to Indian Standard Time;

1.2.14. Different parts of this PPA are to be taken as mutually explanatory and supplementary to each other and if there is any inconsistency between or among the parts of this PPA, they shall be interpreted in a harmonious manner so as to give effect to each part;

1.2.15. The tables of contents and any headings or sub-headings in this PPA have been inserted for ease of reference only and shall not affect the interpretation of this PPA;

1.2.16. All interest, if applicable and payable under this PPA, shall accrue from Day to Day and be calculated on the basis of a year of three hundred and sixty five (365) Days;

1.2.17. The words "hereof" or "herein", if and when used in this PPA shall mean a reference to this PPA;

1.2.18. The terms "including" or "including without limitation" shall mean that any list of examples following such term shall in no way restrict or limit the generality of the word or provision in respect of which such examples are provided;



ARTICLE 2: TERM OF PPA

2.1 Effective Date

2.1.1 This PPA shall come into effect from the date of accomplishment of all the conditions precedent mentioned in Article 3.1 and 3.2 and such date shall be referred to as the Effective Date.

2.2 Term of PPA

2.2.1 This PPA, subject to Article 2.3 and 2.4, shall be valid for a term from the Effective Date until the Expiry Date.

2.3 Early Termination

2.3.1 This PPA shall terminate before the Expiry Date if either Procurer or Power Producer terminates the PPA, pursuant to ARTICLE 12: of this PPA.

2.4 Survival

2.4.1 Notwithstanding anything to the contrary herein, the expiry or termination of this PPA shall not affect any accrued rights, obligations and liabilities of the Parties under this PPA, including the right to receive penalty as per the terms of this PPA, nor shall it affect the survival of any continuing obligations for which this PPA provides, either expressly or by necessary implication, which are to survive after the Expiry Date or termination including those under Article 4.3.1, ARTICLE 9: (Insurance), Liquidated Damages for delay in commencement of supply of power to Procurers under Article 4.20, ARTICLE 10: (Force Majeure), ARTICLE 12: (Events of Default and Termination), ARTICLE 13: (Liability and Indemnification), ARTICLE 16: (Governing Law and Dispute Resolution), ARTICLE 17: (Miscellaneous Provisions), and other Articles and Schedules of this PPA which are indispensable for survival or amicable settlement of events and transactions pursuant to this PPA.



ARTICLE 3: CONDITION PRECEDENT

3.1 Condition Precedent of the Procurer

- 3.1.1 Procurer shall allocate sufficient shadow free space in its Premise, within fifteen (15) Days of signing of PPA, and provide last twelve (12) Months of electricity bills (at least of six (6) Months), to the Power Producer. During these fifteen (15) Days, Procurer shall allow Power Producer to visit the Premise for assessment of required space and locating the proposed project. Minimum space provided by Procurer shall be based on 110 square feet per kWp.
- 3.1.2 Procurer should inform Nodal Agency and Power Producer, in writing, about the space provided for Project implementation within fifteen (15) Days of signing of PPA.
- 3.1.3 Within 10 days of approval by Nodal Agency consequent to Article 3.2.2, Procurer shall confirm the capacity and send a confirmation copy to Nodal Agency and Power Producer.

3.2 Condition Precedent of the Power Producer

- 3.2.1 Within 30 days after signing of PPA, the Power Producer shall undertake Site Survey, assess free capacity of the concerned DT, analyse last twelve (12) Months of electricity bills (at least six (6) Months) received from Procurer, and submit a letter of request for change in Capacity (if any, with due analysis) to MPUVN, copying Procurer. For project groups where number of sites are more than one hundred (100), the Power Producer shall be given sixty (60) days to undertake site survey.
- 3.2.2 Nodal Agency shall, within ten (10) Days of submission of letter of request for change in capacity as per clause 3.2.1, communicate to the Power Producer with a copy to the Procurer, change in capacity, if any, in accordance with clause no. 2.6.9 of the RfP.
- 3.2.3 The Nodal Agency shall release a letter pursuant to clause 3.1.3 to the Power Producer within five (5) days, with a copy to the Procurer confirming the capacity and the consequent subsidy. This letter shall form an integral part of the PPA and shall be annexed as Annexure-I of the PPA. The capacity mentioned in Annexure –I shall then become the PPA capacity.
- 3.2.4 Consequent to Article 3.2.3, if there is any change in capacity; revised C-PBG shall be submitted within 15 days of confirmation of the capacity by Nodal Agency.
- 3.2.5 If the Power Producer is selected to execute Project under more than one Project Group, the C-PBG as per Article 3.2.4 shall be submitted separately for each Project Group.

3.3 Consequences of non-fulfilment of conditions precedent

- 3.3.1 Unless any delay from Procurer in allocating space for the project, if the Power Producer fails to complete the conditions precedents mentioned in Article 3.2 of the PPA, Nodal Agency may forfeit the C-PBG submitted by the Power Producer and the PPA may be terminated.
- 3.3.2 If the CPBG as per Article 3.2.4 is not submitted, the PPA shall stand cancelled.
- 3.3.3 Power Producer shall be entitled for a day-to-day extension for delay by Procurer pursuant to Article 3.3.1. Any delay beyond thirty (30) Days in providing sufficient space to Power Producer by the Procurer shall lead to termination of PPA and C-PBG for the project shall be returned to the Power Producer.
- 3.3.4 In case of termination of PPA pursuant to Article 3.3.2, both the parties shall be relieved from their responsibilities and no party shall be liable to make any payment to the other party.



ARTICLE 4: CONSTRUCTION AND INSTALLATION OF THE SYSTEM

4.1 Condition Subsequent of the Procurer

- 4.1.1 Procurer shall set up the payment security mechanism, in accordance with RFP, within sixty (60) Days from the Effective Date;

4.2 Condition Subsequent of the Power Producer

- 4.2.1 Submit Project design and drawings to the Procurer within thirty (30) Days from the Effective Date; for project group with more than 100 sites additional thirty (30) Days shall be provided.
- 4.2.2 Power Producer shall have sent a written notice, within thirty (30) Days from the Effective Date, to Procurer and Nodal Agency indicating the major Milestones to achieve the SCOD (in the format provided in SCHEDULE 4). Power Producer must mention the progress of Net-Metering application, without failing, in every monthly progress report.
- 4.2.3 Successful Completion of Project within nine (9) months from the effective date of PPA.
- 4.2.4 The Power Producer shall furnish C-PBG within fifteen (15) Days from the date of receipt of Nodal Agency response on change in PPA Capacity and before the signing of PPA. Failure to submit C-PBG, as above, without sufficient justification acceptable to the Nodal Agency, shall be considered as refusal to execute the PPA and Nodal Agency shall have right to forfeit the Bid Security.
- 4.2.5 If the Power Producer is selected to execute Project under more than one Project Group, the C-PBG shall be submitted separately for each Project Group.
- 4.2.6 In case of delay in signing of PPA, of more than 60 days, from the submission of C-PBG, Nodal Agency shall cancel the issued LICA and release the C-PBG within fifteen (15) days from the cancellation of LICA except if delay is because of Procurer or Nodal Agency.
- 4.2.7 Power Producer shall be accountable for submission of below mentioned details to Procurer, copying Nodal Agency, within sixty (60) Days from the Effective Date:
- Copy of Net-Metering application and acknowledgement of Discom on successfully receipt of application for Category-I projects;
 - Project layout/drawing;
 - Bill of Material (BoM) along with requisite test reports and relevant certifications;



4.3 Consequences of non-fulfilment of conditions subsequent

- 4.3.1 In case of delay of the Power Producer to fulfil any one or more of the conditions specified in Article 4.1 due to any Force Majeure event, the time period for fulfilment of the conditions subsequent by Nodal Agency/Procurer as mentioned in Article 4.1, shall be appropriately extended. Accordingly, any delay in the fulfilment of Conditions subsequent as mentioned under Article 4.1 by Nodal Agency/Procurer, shall also lead to appropriate extension in the time period for fulfilment of the conditions subsequent by the Power Producer as mentioned in Article 4.2, especially the SCOD. In such cases, Power Producer must have sent a written notice to Procurer and Nodal Agency indicating the timelines to complete the remaining major Milestones along with extended SCOD, once Power Producer gets the appropriate extension in Schedule COD.
- 4.3.2 Save for Article 4.3.1, 4.4.1 e) and 4.18, in case of a failure to meet the requirements mentioned under Article 4.2, the Procurer shall have right to terminate this PPA by giving a notice to the Power Producer, with information to Nodal Agency, in writing only after fifteen (15) Days of breach from the timelines provided in Article 4.2. The termination of the PPA shall take effect upon the expiry of the 15th Day of the above notice. For the avoidance of doubt, it is clarified that this Article shall survive the termination of this PPA. Further, C-PBG shall be forfeited, in accordance with Article 4.9, in case of delay by Power Producer in fulfilling any of the conditions mentioned in 4.2.

4.4 Power Producer's Obligations

- 4.4.1 The Power Producer undertakes to be responsible, at its own cost and risk, for:

- a) all approvals including Consents required under local regulations, building codes and approvals required from Discom(s) etc. relating to installation and operation of the Project and generation and supply of solar power from the Project to Procurer and maintain the same in full force and effect during the Term of this PPA and Indian Law, as required and relevant. Power Producer shall update Nodal Agency each month on the status of the approvals, In case the Power Producer is facing any difficulties in obtaining any approval it can request Nodal Agency for timeline extension for the same.
- b) supply to Procurer promptly with copies of each application that it submits to relevant authorities, and copy/ies of each Consent/ license which it obtains. For the avoidance of doubt, it is clarified that the Power Producer shall be solely responsible for maintaining/ renewing any Consents and for fulfilling all conditions specified therein during the Term of the PPA.
- c) design, engineering, supply, erection, testing and Commissioning along with Comprehensive Operation & Maintenance of the grid interactive rooftop solar PV Project along with supply of power, with desired level of performance, for a period of twenty five (25) Operational Years of Project in accordance with the applicable Law, the Grid Code and the terms and conditions of this PPA and those prescribed in RFP.
- d) providing a timely basis relevant information on Project specifications which may be required for interconnecting Project with the Grid. However, any capital expenses incurred towards grid connection of the Projects shall be borne by Procurer and shall be carried out by Power Producer in accordance with technical requirement of relevant rules, regulations and procedures.
- e) save for Force Majeure events, commencing the supply of power for the PPA Capacity to



Procurer no later than the SCOD and continuance of the supply of power throughout the Term of PPA.

- f) operate and maintain the Project throughout the Term of PPA free and clear of encumbrances, except those expressly permitted under ARTICLE 15:.
- g) maintaining its controlling shareholding prevalent at the time of signing of PPA up to a period of one (1) Operational Year after COD in accordance with the RfP.
- h) fulfilling all obligations undertaken by the Power Producer under this PPA, read in conjunction with terms and conditions of RFP; upon Termination, it shall be the responsibility of the Power Producer to transfer the rooftop to Procurer free of all encumbrances and at zero cost.
- i) Upon Termination, it shall be the responsibility of the Power Producer to restore the rooftop and clear all the surfaces at power producer's cost.
- j) ensure operations of the solar power plant in a prudent utility basis with an objective of regular power supply to Procurer.
- k) submission of Project Manager name to Procurer and Nodal Agency, who will act as a single point of contact for future communication.
- l) submit a monthly progress report during Construction Period (from Effective Date to COD) to Nodal Agency, copying Procurer, within first seven (7) days of the subsequent month.

4.5 Procurer's Obligations

4.5.1 The Procurer shall be responsible to fulfil obligation undertaken by it, including those required as facilitation for installation of Project at the Premises of Procurer, under this PPA at its own cost and risk.

4.5.2 Provide access to Power Producer to the Premises for project COD and for regular operation and maintenance of the Project.

Provide access to Project Lenders and Lenders Representatives during the tenor of the loan facility. In cases, where the Procurer and Building Owner are different, then similar undertaking for access to premises in favour of Lenders has to be provided by the Building Owner.

Procurer should not have any lien over the assets financed by Banks like solar modules, inverters, etc. on the procurer's rooftop as those assets belong to the lenders financing the project.

4.5.3 Regularly pay bills for power offtake as per the Monthly Bills submitted by the Power Producer.

4.5.4 Pay the Termination Payment, if required, as per the terms of PPA

4.6 Bank Guarantees

4.6.1 Construction Performance Bank Guarantee (C-PBG)

4.6.1.1 The Power Producer shall furnish C-PBG at rate of twenty five (25) lakhs/MWp or part thereof from a nationalized/ scheduled bank in the form of:

FDR in favour of M.P. Urja Vikas Nigam Ltd., Bhopal A/C of bidder

OR



Bank Guarantee as per prescribed FORMAT 2

- 4.6.1.2 Submitted C-PBGs shall be valid till fourteen (14) Months from the Effective Date with a further claim period of six (6) Months, or required to be extended as deemed necessary. The Power Producer shall furnish C-PBG within fifteen (15) Days from the date of receipt of Nodal Agency response on change in PPA Capacity and before the signing of PPA. Failure to submit C-PBG, as above, without sufficient justification acceptable to the Nodal Agency, shall be considered as refusal to execute the PPA and Nodal Agency shall have right to forfeit the Bid Security.
- 4.6.1.3 If the Power Producer is selected to execute Project under more than one Project Group, the C-PBG shall be submitted separately for each Project Group.
- 4.6.1.4 Nodal Agency shall release C-PBG to Power Producer within three (3) Months from COD.
- 4.6.1.5 In case of delay in signing of PPA, of more than 60 days, from the submission of C-PBG, Nodal Agency shall cancel the issued LICA and release the C-PBG within fifteen (15) days from the cancellation of LICA.
- 4.6.1.6 Further, in case of delay in achieving/fulfilling any milestone as mentioned in COD Schedule or as per Conditions Subsequent of PPA, C-PBG shall be forfeited.

4.6.2 Bank Guarantees (BG) for Advance Subsidy:

- 4.6.2.1 If Power Producer wants advance subsidy, Power Producer shall be required to furnish BG of amount equivalent to 100% of value of the advance subsidy from a nationalized/scheduled bank in the form of:

FDR in favour of M.P. Urja Vikas Nigam Ltd., Bhopal A/C of bidder

OR

Bank guarantee as per prescribed FORMAT 3

- 4.6.2.2 Submitted BGs shall be valid till fourteen (14) Months from the Effective Date with a further claim period of six (6) Months, or required to be extended as deemed necessary.
- 4.6.2.3 In case, Power Producer fails to achieve the Completion of the Project within the given timeline, Nodal Agency shall forfeit the BG.
- 4.6.2.4 Nodal Agency shall release BG to Power Producer within three (3) Months from Completion.

4.7 Power Producer's Construction Responsibilities

- 4.7.1 The Power Producer shall be responsible for design, engineering, supply, erection, testing and Commissioning along with Comprehensive Operation & Maintenance of the grid interactive rooftop solar PV Project, with desired level of performance, for a period of 25 Operational Years of the Project in accordance with the following, it being clearly understood that in the event of inconsistency between two or more of the following, the order of priority as between them shall be the order in which they are placed, with 'applicable law' being the first:
- Applicable Law;
 - the Grid Code;
 - the terms and conditions of this PPA;
 - the Functional Specifications as per RFP; and



e. Prudent Utility Practices.

4.7.2 Notwithstanding anything to the contrary contained in this PPA, the Power Producer shall ensure that the technical parameters or equipment limits of the Project shall always be subject to the requirements as specified in points Article 4.7.1 (a) to (e) above and under no event shall over-ride or contradict the provisions of this PPA and shall not excuse the Power Producer from the performance of his obligations under this PPA.

4.7.3 During construction of the Project, Power Producer shall be allowed to demand for advance subsidy, to Nodal Agency, at any point of time before SCOD, as mentioned in RFP;

4.7.4 Construction, Installation, Testing and Commissioning of the Project

- a) The Power Producer will be responsible for design, engineering, supply, erection, testing and Commissioning along with Comprehensive Operation & Maintenance of the grid interactive rooftop solar PV Project, with desired level of performance, for a period of 25 Operational Years in accordance with this PPA/ RFP. The Power Producer shall provide to the Nodal Agency, with a copy to Procurer, a bill of materials listing the major equipment constituting the Project. Such bill of materials shall be provided within 30 Days of the COD.
- b) The Power Producer shall have access to Premises, as reasonably permitted by the Procurer, to perform the works related to completion, Commissioning and O&M during the Term of PPA at the Premises in a manner that minimizes inconvenience to and interference with the use of the Premises to the extent commercially practical for the purpose of the Project.
- c) The Power Producer shall provide and lay the dedicated electrical cables for delivery of solar power from the Project up to the Delivery Point(s). Distribution of solar power beyond this point will be responsibility of the Procurer in accordance with this PPA.
- d) Unless otherwise agreed between the Parties, the Power Producer shall not do (a) chipping of rooftop; or (b) disturb water proofing of roof (c) carry out any other modification of the Premises without the written consent of the Procurer. One time cost for strengthening of Premise to the extent required for setting up Solar PV Project during construction shall be borne by Power Producer. Any delay due to strengthening of Premise shall not be considered to extend the SCOD unless it is approved by Procurer in written. Cost of repair or maintenance of Premise to the extent required for the Solar PV Project, during the Comprehensive O &M of Project, shall be the responsibility of Power Producer, other than cost required for waterproofing. The cost for waterproofing will be the responsibility of Power Producer for a period of first three (3) Operational Years.
- e) The Power Producer shall maintain general cleanliness of area around the Project during construction and operation period, i.e., Term of the PPA of the Project. In case any damages is caused to the equipment / facilities owned by the Procurer due to the Power Producer, the same shall be made good / rectified by the Power Producer at its risk and cost.
- f) Subject to any punch-list items, which shall be agreed by the Procurer as not being material to Completion of the Project, the Power Producer agrees that it shall achieve the COD of the Project within nine (9) Months from effective date of this agreement ("SCOD").
- g) At the time of Commissioning, Procurer shall ensure that sufficient load is available at the Delivery Point(s) to ensure synchronization and drawl of power from the Project.
- h) If the Power Producer is unable to commence supply of solar power to the Procurer by the



SCOD, other than for the reasons specified in ARTICLE 10: or Article 12.2 , the Power Producer shall pay to Procurer Liquidated Damages for the delay in such commencement of supply of solar power as per the RFP and/or PPA.

- i) Procurer, in coordination with Power Producer, shall ensure that all arrangements and infrastructure for transmission or/ and distribution solar power beyond the Delivery Point(s) are ready on or prior to the COD and is maintained in such state in accordance with applicable laws through the Term of PPA.

4.8 Liquidated Damages

4.8.1 In case of natural calamity or any reason beyond the control of Power Producer or unavoidable circumstances, the work is not completed within the given timeframe, Nodal Agency may consider grant of extension after the reason submitted by Power Producer are found to be satisfactory, Delay in receipt of equipment of Solar System like solar panel, PCU, etc. from the vendors, to whom the Bidder has placed order, shall not be considered as a reason for extension.

4.8.2 If the Power Producer fails to execute the work and Commission the project on or before the SCOD, Nodal Agency shall have the right to impose penalty equivalent to 5% of C-PBG value per week from the SCOD subject to maximum of twenty (20) weeks delay. In case of delay beyond extended timeline of twenty (20) weeks, Nodal Agency may

- a) allow Power Producer to work with additional penalty up to ten (10) more Weeks. Power Producer shall be required to submit additional C-PBG of 50% of earlier C-PBG value in the form as mentioned in Article 4.6.1. LD of 5% of additional C-PBG per week or part thereof shall be levied on Power Producer.
- b) Cancel the PPA and Power Producer shall be liable to pay Liquidated Damages to the Nodal Agency, which Nodal Agency shall route to the procurer.

4.9 Liquidated Damages on non-compliance during Construction Period

4.9.1 Liquidated Damages shall be imposed on Power Producer at the rate of 2% of C-PBG per week of delay or part thereof, in case of failure of adhering in submission of details as mentioned in condition subsequent of the Power Producer. Procurer/Nodal Agency shall terminate PPA and forfeit the C-PBG, in case of delay beyond four (4) Weeks in submission of requisite details.

4.9.2 Power Producer shall be responsible for completion of all activities mentioned in COD Schedule within the given period. Power Producer shall include the detail of COD Schedule in monthly progress report.

4.9.3 Progress in the implementation of the Project shall be monitored by Nodal Agency for milestones mentioned in COD Schedule.

4.9.4 Delay beyond ten (10) Days to achieve any milestone mentioned in COD Schedule shall attract penalty of 0.5% of C-PBG per week of delay or part thereof except for final milestone.

4.9.5 Any of the penalty accumulated during Construction Period shall not be levied in case Commissioning will be achieved on or before SCOD.

4.10 System Acceptance Testing

4.10.1 The Power Producer shall, in the presence of designated representatives of Nodal Agency and



Procurer, conduct testing of the Project, as prescribed in RFP, to establish successful Commissioning of the Project.

- 4.10.2 The Power Producer shall demonstrate that the said project delivers Capacity Utilization Factor ("CUF") of at least 15%, adjusted for seasonality as tabulated below, for one (1) day before declaration of successful Completion of the Project.

Month	kWh generation in 1 day per kWp system
January	3.71
February	4.14
March	4.33
April	4.27
May	3.99
June	3.30
July	2.56
August	2.33
September	3.21
October	3.89
November	3.90
December	3.56

- 4.10.3 If the results of such testing indicate that the Project is capable of generating electrical energy and Power Producer shall submit Commissioning certificate of the Project issued by the concerned Discom and/or Nodal Agency as the case may be, in accordance with the applicable rules/regulation/policies, as prescribed in RFP, Power Producer shall send a written notice to Nodal Agency, with a copy to Procurer, to that effect, and the date of successful conducting such tests and injection of solar power at Delivery Point(s) shall be the "Commercial Operation Date" as certified as per RFP and/or PPA.

4.11 Measuring CUF

- 4.11.1 Power Producer shall ensure that all Projects are Remote Monitoring System ("RMS") enabled. The data from such RMS enabled Projects would be monitored or analysed remotely by Nodal Agency, independently or at its Centralized Monitoring Centre. The Power Producer shall support Nodal Agency or its authorised representatives in establishing technical handshake between RMS and the Centralized Monitoring Centre. The internal data logger of the RMS system shall work on store-and-forward mechanism. It should be able to store data in case of connectivity outage and forward the stored data once the connectivity is attained. The power producer shall ensure data for a minimum period of one year is stored in the data logger. The RMS system must also be capable of interfacing with external data loggers as may be installed by the Nodal Agency or its authorised representatives at no extra cost. The Power Producer shall ensure that the connectivity of the Project with the Centralized Monitoring Centre of Nodal Agency is uninterrupted at all times during O&M period and shall make all necessary



arrangements for the same. In addition to the above, the Power Producer shall ensure and shall have no objection to provide access to RMS and / or any other medium used to transfer data for data acquisition and monitoring the performance of Project(s) by Nodal Agency. Nodal Agency or its authorized agency reserves right to validate the authenticity of such data for which Power Producer shall extend full access and its cooperation.

- 4.11.2 Performance of RMS System - The system should have ability to send data on defined internal time so that data should not be lost due to performance and load issue. The information should be shared with trusted system only and should not be available to any other unknown system. The Power Producer must ensure the availability and connectivity of the RMS system to be at least 98%.

4.12 Project Operation & Maintenance (O&M)

- 4.12.1 Power Producer shall operate and maintain Project, with desired level of performance, during the Term of PPA, read with terms and conditions of RFP, at its sole cost and expenses; provided, that any repair or maintenance costs incurred by the Power Producer as a result of Procurer's negligence or breach of its obligations hereunder, as certified by Nodal Agency, shall be reimbursed in full by Procurer. The timelines for O&M would be 7 A.M. to 7 P.M. plus one hour during non-generation hours as mutually decided between Procurer and the Power Producer.
- 4.12.2 Procurer shall not undertake any O&M activity related to Project. Power Producer shall ensure that Project is adequately maintained and operated to serve the purpose envisaged in PPA and RFP.
- 4.12.3 The Power Producer will have to arrange all required instruments, tools, spares, components, manpower and other necessary facilities at his own cost. It is advisable for the Bidder to ensure proper arrangements for cleaning of panels (at least 16 cycles in a Year and Year must exclude June to September period) in order to maintain the requisite performance expectations.

4.13 Power Producer's Defect Liability

- 4.13.1 If it shall appear to the Nodal Agency that any supplies have been executed with unsound, imperfect or unskilled workmanship, or with materials of any inferior quality, the Power Producer shall forthwith rectify or remove and replace that item so specified and provide other proper and suitable materials at its own charge and cost if so desired by Nodal Agency in writing.
- 4.13.2 The Power Producer shall also be undertaking the operation and maintenance of the project and consequently shall be required to rectify any defects that emerge during the operation & maintenance of the Project for the entire term of the PPA.

4.14 Project Disruptions

4.14.1 Unavailability of Premises

- If, for reasons other than the Power Producer's breach of its obligations under PPA/ RFP, Power Producer is not provided with the access to the Premises as necessary to operate and maintain the Project, such time period shall be excluded from the calculation of CUF.
- If, for reasons other than the Power Producer's breach of its obligations under PPA/ RFP, energy generation from Project is hampered significantly or stopped, such time period shall be excluded from the calculation of CUF.



- c) Period during which the grid is unavailable due to power cut or grid is unstable during generation hours and in turn leading to lower generation, such hours shall be excluded for the purpose of calculation of CUF.
- d) Procurer shall continue to make all payments for the solar power during such period of Project disruption other than ARTICLE 10: at same Tariff as applicable for the period of Project disruption ("Disruption Period"). For the purpose of calculating solar power payments and lost revenue for such Disruption Period, Deemed Generation shall be considered for calculation of lost revenue or payment obligation of Procurer. Loss in revenue for the Disruption Period would be multiplication of Tariff of that Operational Year and difference in Deemed Generation and Actual Generation over such period. Power Producer shall inform about the disruption or outage in Project, for reasons attributable to Procurer in writing with date and time of such occurrence, and Procurer's liability shall start from the date of intimation of disruption or outage in the rooftop system, on account of Procurer.

4.14.2 Roof repair and other Project disruptions

- a) In the event that (i) the Procurer repairs the Premises' roof for any reason not directly related to damage, if any, caused by the Project, and such repair requires the partial or complete temporary disassembly or movement of Project, or (ii) any act or omission of Procurer or Procurer's employees, affiliates, agents or subcontractors (collectively, a "Procurer Act") results in a disruption or outage in Project generation, and such events are attributable to Procurer except Force Majeure, then, in either case, Procurer shall:
 - i. Pay the Power Producer such amount of money as prudently determined and agreed by and between Power Producer and Procurer for all work required by the Power Producer to disassemble or move or shifting the Project. The costing would be at mutually decided rate or latest Schedule of Rates (SOR) published by concerned distribution utility whichever is lower for similar works; and
 - ii. Continue to make all payments for the solar power during such period of Project disruption at same Tariff as applicable for the period of Project disruption ("Disruption Period"). For the purpose of calculating solar power payments and lost revenue for such Disruption Period, Deemed Generation shall be considered for calculation of lost revenue or payment obligation of Procurer. Loss in revenue for the Disruption Period would be multiplication of Tariff of that Operational Year and difference in Deemed Generation for number of days such event occurs and Actual Generation. Power Producer shall inform about the disruption or outage in Project, for reasons attributable to Procurer in writing with date and time of such occurrence, and Procurer's liability shall start from the date of intimation of disruption or outage in system production, on account of Procurer.
- b) In the event that the Procurer fails to ensure adequate space for solar equipment to ensure that other structures do not partially or wholly shade any part of the Project and if such shading occurs, the Power Producer may apply for Deemed Generation furnishing the calculation for loss in revenue due to such shading supported by the relevant data, which shall be approved by Procurer within one month of submission, failing which the Power Producer shall claim provisional Deemed Generation till the issue is finally settled.

Calculation for loss in revenue for the period = (Deemed Generation X number of days such event occurs - Actual generation) X Tariff of that Operational Year.



- c) The Power Producer is responsible for the waterproofing of the roof disturbed/ pierced for installation of Project for the Comprehensive O &M period of first 3 Operational Years. The Power Producer should immediately take necessary action to repair any damage to the waterproofing. However, in such situations, Power Producer shall bear any loss or damage to Project and rectify the same within reasonable timeframe but any generation loss in such eventualities shall not be passed on to Procurer. If Power Producer fails to do required water proofing within 7 days from the day of identification of issue, Procurer may get the same done at prevailing market rate and Power Producer shall reimburse the same to Procurer. If the Power Producer fails to reimburse the expenses to the Procurer then such expenses shall be adjusted by the Procurer from the energy bills of the next six (6) months.

4.15 Quality of Workmanship

- 4.15.1 The Power Producer shall ensure that the Project is designed, built and completed in a good workman like manner using sound engineering construction practices and using only materials and equipment that are new and of international utility grade quality such that, the useful life of the Project will be till the Expiry Date.
- 4.15.2 The Power Producer shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with Indian Standards and Codes issued by Bureau of Indian Standards (BIS)/ International Electro technical Commission (IEC).

4.16 Construction Documents

- 4.16.1 The Power Producer shall retain at the Premises, and make available for inspection to Procurer at all reasonable times, copies of the results of all tests specified in Tariff Schedule hereof.

4.17 Delivery of Solar Power

4.17.1 Purchase Requirement

- i. Procurer agrees to purchase one hundred percent (100%) of the solar energy generated by the Project and made available by the Power Producer to Procurer at the Delivery Point(s) during each relevant month of the Term of PPA.
- ii. It is possible that the Power Producer is not able to achieve optimum generation from the installation due to the following reasons:-
 - a) It could be due to demand side variations i.e. consumer loads being reduced leading to lower power flow;
 - b) It could be due to supply side variation i.e. significant degradation of the panel, not sufficient maintenance and operations and Power Producer not able to achieve Minimum CUF for consecutive four (4) months.
 - c) The following clauses are applicable for generation under Category 3 supply only.

A. In cases where lower generation is due to demand side variation then:-

- a) Procurer to pay the Power Producer, for the loss in revenue due to lower demand of Procurer. Loss in Revenue for the period would be equal to the multiplication of (Deemed Generation X number of days such event occurs - Actual Generation under Category 3) with Tariff of that Operational Year.



B. In cases where lower generation is due to supply side reasons:

- a) Then generator to be penalized for generation lower than Minimum CUF. Penalty for the period would be equal to the multiplication of difference of (Deemed Generation X number of days such event occurs - Actual Generation under Category 3) with 20% of Tariff of that Operational Year. Penalty amount shall be adjusted in the subsequent bills;
- b) While calculating Minimum CUF, period of unavailability of Grid shall be excluded.

4.17.2 Suspension of Delivery

The Power Producer shall be entitled to suspend delivery of electricity from the Project to the Delivery Point(s) for the purpose of maintaining and repairing the Project upon giving notice of at least 3 days in advance to the Procurer, except in the case of emergency repairs. Such suspension of service shall not constitute a breach of this PPA, provided that the Power Producer shall use commercially reasonable efforts to minimize any interruption in service to the Procurer. However, any preventive maintenance shall be done only during the period when Project is not generating.

4.17.3 Title to the Project

Throughout the duration of the PPA, the Power Producer shall be the legal and beneficial owner of the Project at all times, and the Project shall remain a property of the Power Producer and shall not attach to or be deemed a part of, or fixture to, the Premises. The title to the project will be transferred to the Procurer at Termination of the PPA at the end of the Term (i.e after completion of 25 Operational Years) within thirty (30) days. The title to be transferred to Procurer free of all encumbrances and at zero cost to the Procurer.

4.18 Extensions of Time

4.18.1 In the event that the Power Producer is prevented from performing its obligations under Article 4.4 by the SCOD due to:

- a. any Procurer Event of Default; or
- b. Force Majeure Events affecting Procurer; or
- c. Force Majeure Events affecting the Power Producer; or
- d. Power Producer, after successful Completion, shall not be able to achieve Commissioning on or before SCOD due to delay on account of receipt of commissioning approval/certificate from concerned Distribution Company.

The SCOD shall be deferred, subject to the limit prescribed in Article 4.18.2, for a reasonable period but not less than 'Day for Day' basis, to permit the Power Producer or Procurer through the use of due diligence, to overcome the effects of the Force Majeure Events affecting the Power Producer or Procurer, or till such time such Event of Default is rectified by Procurer.

4.18.2 Subject to Article 4.18.6 and 4.18.7, in case of extension occurring due to reasons specified in Article 4.18.1a and d, any of the dates specified therein can be extended, subject to the condition that the SCOD would not be extended by more than one hundred and fifty (150) Days.

4.18.3 In case of extension due to reasons specified in Article 4.18.1 b and c, and if such Force Majeure Event continues even after a maximum period of sixty (60) Days, any of the Parties may choose to terminate the PPA as per the provisions of Article 12.5.



- 4.18.4 If the Parties have not agreed, within fifteen (15) Days after the affected Party's performance has ceased to be affected by the relevant circumstance, on the time period by which the SCOD should be deferred by, any Party may raise the Dispute to be resolved in accordance with ARTICLE 16:.
- 4.18.5 As a result of such extension, the SCOD newly determined shall be deemed to be the SCOD for the purposes of this PPA.
- 4.18.6 Notwithstanding anything to the contrary contained in this PPA, any extension of the SCOD arising due to any reason envisaged in this PPA shall not be allowed beyond six (6) Months or the Date determined pursuant to Articles 4.18.2 or/ and 4.18.3, whichever is later.
- 4.18.7 For getting extension of time under Article 4.18.1 d), Power Producer shall notify Nodal Agency and Procurer, at least fifteen (15) days in advance of SCOD, and detailed out the probable reasons for delay. Any delay on account of non-compliance of Power Producer, in accordance with Policy and Regulation, in getting Commissioning approval/certificate, Nodal Agency shall levy a one-time penalty of INR 500 /kWp for full PPA Capacity.

4.19 Inspection/ Verification

- 4.19.1 The Power Producer shall be further required to provide entry to the Premises of the Project at all times during the Term of PPA to Procurer and Nodal Agency.

The Lenders and Lender's Representatives shall be provided access to the Premises of the project by the Procurer/Building Owner (as the case may be) so as to enable Lenders to conduct regular site inspection.

- 4.19.2 Nodal Agency shall be responsible for inspection and verification of the Project works being carried out by the Power Producer at the Premises. If it is found that the construction works/ operation of the Project is not as per RFP/ PPA, it may seek clarifications from Power Producer or require the works to be stopped or to comply with the instructions of Nodal Agency.

4.20 Liquidated Damages for delay in commencement of supply of power to Procurer

- 4.20.1 If the Power Producer is unable to commence supply of solar power to Procurer by the SCOD (including time extension approved by Nodal Agency and Procurer) for reasons other than those specified in Article 4.18.1, the Power Producer shall pay to Nodal Agency, Liquidated Damages of a sum equivalent to 5% of C-PBG shall be levied per week of delay or part thereof, If delay is beyond 20 weeks, Nodal Agency may:

- Allow Power Producer to continue the work with additional penalty at the said rate in Article 4.20.2; OR
- Terminate the PPA and Power Producer is liable to pay Liquidated Damaged to the Nodal Agency.

In case b) of above, Nodal Agency would recover loss of advance subsidy paid, if any, from Power Producer, it is exclusive of the Liquidated Damages.



4.20.2 In case, Nodal Agency allows Power Producer to work with additional penalty at the said rate, COD shall be done within 20 weeks from the SCOD. Further extension shall be granted, only when Power Producer submits the Liquidated Damages of sum equivalent to 50% of C-PBG value in the form of FDR or bank guarantee as mentioned in RFP, but not more than 10 weeks (in addition to earlier 20 weeks extension). If COD shall not be achieved within second granted extension time period, Nodal Agency may terminate the PPA.



ARTICLE 5: SYNCHRONISATION, COMMISSIONING AND COMMERCIAL OPERATION

5.1 Synchronization

- 5.1.1 The Power Producer shall give the concerned Discom, Nodal Agency and Procurer at least Thirty (30) Days advanced preliminary written notice and at least Fifteen (15) Days advanced final written notice, of the date on which it intends to synchronize the Project.
- 5.1.2 Subject to Article 5.1.1, the Project may be synchronized by the Power Producer when it meets all the connection conditions prescribed in applicable Grid Code then in effect and otherwise meets all other Indian legal requirements for synchronization to the Grid. Prior to synchronization of the Project, the Power Producer shall be required to get the Project certified for the requisite acceptance/ performance test as may be laid down by Central Electricity Authority or an agency identified by the central government / state government to carry out testing and certification for the solar rooftop projects.
- 5.1.3 The synchronization equipment shall be installed by the Power Producer at its generation facility of the Project at its own cost. The Power Producer shall synchronize its system with the utility system only after the approval of synchronization scheme is granted by the concerned Discom and checking/verification is made by the concerned authorities of the Discom.

5.2 Completion, Commissioning and Commercial Operation

- 5.2.1 When the Power Producer fulfils his obligation under the PPA, it shall obtain completion certificate from Nodal Agency. Nodal Agency shall issue separate Completion Certificate for the capacity of Project under Category I and III.
- 5.2.2 For the purpose of obtaining Completion certificate following documents shall be required.
- 5.2.2.1 Inspection Report of the Work(s) as per prescribed format provided by Nodal Agency.
- 5.2.2.2 CEIG Approval for the PPA Capacity, if applicable;
- (In compliance with section 162 of Electricity Act, 2003 installation of Grid Connected RE System up to 100 kW capacity is exempt from Chief Electrical Inspector to Government (CEIG) approval, Further, Grid Connected RE System up to 500 kVA capacity as per MOP notification no 1204, May 2016 would be exempt from obtaining approval from Chief Electrical Inspector to Government (CEIG))
- 5.2.2.3 Project fulfilment certificate from Procurer and DREO for the PPA Capacity. If PPA Capacity divided under Category I and III, Power Producer shall submit separate Part Capacity fulfilment certificate from Procurer and DREO for capacity under Category I and III. From Initial Part Commissioning to full PPA Capacity commissioning, Power Producer shall be required to submit Part Capacity/PPA Capacity Fulfilment certificate (in accordance with FORMAT-1) certified by DREO and Procurer both.
- 5.2.2.4 Document in support of performance of the Project and achievement of CUF of 15% subject to seasonality as per provisions of RFP, as certified by the Nodal Agency. Separate performance report for the capacity under Category I and III shall be submitted by Power Producer.



5.2.3 Full PPA Capacity of the Project shall be commissioned by SCOD.

5.2.4 Part Commissioning:

- i. Part Commissioning of the Project shall be allowed;
- ii. Power Producer shall need to comply with all the compliances and regulations to be required and undertake the commissioning in accordance with RFP for Part Commissioning as well;

5.2.5 The Power Producer shall undertake a commissioning in accordance with RFP, as soon as reasonably practicable [and in no event later than two (2) weeks or such longer period as mutually agreed between the Power Producer and Procurer after the point at which it is no longer prevented from doing so by the effects of Force Majeure Events or Procurer's Event of Default (as appropriate and applicable)] and if such Commissioning of PPA Capacity is not duly completed on or before the SCOD, Power Producer shall be required to pay Liquidated Damages to Nodal Agency in accordance with Article 4.20.

5.2.6 Power Producer shall be required to get the Project certified for the desired performance for Commissioning as laid down in RFP. Project shall be commissioned on the Day after the date when Procurer receives a final Commissioning certificate from the Discom for Category-I Project and Completion Certificate from Nodal Agency for Category-III Projects in accordance with prevalent policy and regulation. Power Producer starts injecting power from the Project to the Delivery Point(s) from the day of Initial Part Commissioning but only limited to Commissioned part of the PPA Capacity.

5.2.7 The Power Producer expressly agrees that all costs incurred by it in synchronising, connecting, Commissioning and/ or Testing a Project shall be solely and completely to its account and Procurer's liability shall not exceed the amount of the Tariff payable for such power output or as per relevant Law applicable at the time.

5.2.8 The Parties shall comply with the provisions of the applicable Law including, in particular, Grid Code as amended from time to time regarding operation and maintenance of the Project and all matters incidental thereto.

5.2.9 For clarification, Power Producer shall submit the commissioning certificate certified by Discom and Completion Certificate by Nodal Agency for the capacity Commissioned under Category I and Category III respectively.



ARTICLE 6: DISPATCH

6.1 Dispatch

- 6.1.1 The Project shall be required to maintain compliance to the applicable Grid Code requirements and directions, if any, as specified by concerned SLDC/ RLDC from time to time.



ARTICLE 7: METERING AND BILLING

7.1 Metering

- 7.1.1 Metering and grid connectivity, if required, of Project would be the responsibility of the Power Producer in accordance with the prevailing guidelines of the concerned DISCOM and / or CEA and Policy for Decentralized Renewable Energy System, Madhya Pradesh/ MPERC (Grid Connected Net Metering) Regulations, 2015 and their amendments/ substitutions. Nodal Agency/ Procurer could facilitate in the process; however, the entire responsibility towards such arrangements lies with Power Producer only.
- 7.1.2 In case of Category I and Category III systems, the Power Producer shall install the Generation Meter separately near the output of Inverter of both the Category systems and for Category-I systems, Net-Meter shall be located in place of present discom's metering system.
- The accuracy class, current rating and certifications of the net meter and generation meter shall confirm with the standards for net meter and standards for generation meter as provided Madhya Pradesh Policy for Decentralized Renewable Energy System, 2016 and any subsequent amendment.
- 7.1.3 The Metering System shall have such inbuilt provisions that it senses grid availability and when grid is not available:
- Isolates Project, operating on net metered basis from the grid;
- 7.1.4 The meter will be read by the Power Producer's personnel on the Metering Date on monthly basis. The authorized representative of the Procurer can be present at the time of meter reading. Both the Parties shall sign a joint meter reading report. However, in case the joint meter reading report is not signed in the first three Business Days of Metering Date of any month due to non-availability of the Procurer's authorized representative, the report signed by the Power Producer shall be considered as joint meter reading report. The Parties agree that such joint meter reading report shall be final and binding on the Parties.
- 7.1.5 Meters and metering equipment shall be tested as per provision of MPERC and as per IS 14697 at CPRI or at any NABL accredited lab before installation at site on the cost of power producer and should be properly sealed in the presence of designated authority from MPUVNL at the time of installation.
- 7.1.6 The Metering System at the Delivery Point(s) and any additional meters required by Applicable Law shall be tested, maintained and owned by the Power Producer.
- 7.1.7 The Procurer may, at its own discretion, install a check meter, at its cost, to verify the measurements of the Metering System.
- 7.1.8 The risk and title to the solar power supplied by the Power Producer shall pass to the Procurer at the Delivery Point(s).
- 7.1.9 The energy metering of Projects, in kWh separately, shall be on monthly basis as follows:
- equal to gross energy generated for a net metered Project;
 - equal to gross energy generation for Project installed for consumption within Premises with no export of power.

7.2 Billing



- 7.2.1 The energy billable to Procurer, by Power Producer, shall be computed on monthly basis by multiplying the Tariff of that particular Operational Year with the summation of:
- a) gross energy generated for a net metered Project;
OR/AND
 - b) gross energy generation for Project installed for consumption within Premises with no export of power;
- 7.2.2 Import and export of energy from Project operating on net-metered basis shall be settled as per MPERC (Grid Connected Net Metering) Regulations, 2015 / Policy for Decentralized Renewable Energy System, Madhya Pradesh, 2016 and their amendments/ substitutions.
- 7.2.3 Settlement of Projects operating for consumption within Premises with no export of power shall be done as described under ARTICLE 8:



ARTICLE 8: TARIFF AND PAYMENT

8.1 Consideration

8.1.1 Procurer shall pay to the Power Producer monthly payment towards energy consumed from the Project as per the Metering and Billing as described in ARTICLE 7: above for each calendar month during the period from the Commissioning of Part Capacity to Expiry Date at a Tariff corresponding to the Operational Year upon pursuant to RFP.

All the payment from Power Producer to Procurer shall be routed through the Lender's designated Bank Account.

8.1.2 Quoted Tariff for First Operational Year shall be applicable for the period from Initial Part Commissioning till the end of 1st Operational year.

8.2 Invoice

8.2.1 The Power Producer shall invoice Procurer on third Business Day of each month ("Metering Date") in respect of energy generated the immediately preceding month. However, the last monthly invoice pursuant to this PPA shall include energy generated only till the Expiration Date of this PPA.

8.2.2 The Procurer shall be billed for Category - 3 in the following manner:-

- a) The Procurer consuming energy under Category - 3 shall be billed for actual consumption for a month, if it is more than the Deemed Generation for the month. In case, actual consumption is less than the Deemed Generation, Power Producer shall charge in accordance with the Article 4.17.

8.2.3 The Invoice to the Procurer shall include:

- a) Depending on the mode of Project Commissioning, Gross energy generated for a net metered Project or Gross energy generation for Project installed for consumption within Premises with no export of power
- b) Supporting data, documents and calculations in accordance with this PPA;



8.3 Due Date

8.3.1 If there is no dispute on an Invoice, Procurer shall pay all amounts due under the Invoice within fifteen (15) Business Days after the date of the receipt of the invoice in Procurer's office ("Due Date") through e-mail or/ and FAX.

8.4 Method of Payment

8.4.1 Procurer shall make all payments under the PPA by cheque or electronic funds transfer of immediately available funds to the designated bank account. All payments made hereunder shall be non-refundable, subject to the applicable tax deduction at source, and be made free and clear of any other tax, levy, assessment, duties or other charges and not subject to reduction, set-off, or adjustment of any kind. If the Procurer deducts any tax at source, the Procurer will issue a tax credit certificate as per law.

8.5 Late Payment

8.5.1 Save for provisions in for disputed bills, in case payment against any Invoice is delayed by the Procurer beyond its Due Date, a Late Payment Surcharge shall be payable by Procurer to the Power Producer at the rate of 1.5% per month ("Late Payment Surcharge") calculated on the amount of outstanding payment, calculated on a Day to Day basis for each Day of the delay beyond the Due Date, compounded on monthly basis. Late Payment Surcharge shall be claimed by the Power Producer through its subsequent Invoice.

8.6 Rebate

8.6.1 Save for any dispute, Procurer shall be eligible for rebate of 1% on the amount of outstanding payment, for payment of any Bill within first seven (7) Business Days from the Metering Date, calculated on a Day to Day basis for each Day of the.

8.6.2 In case of any disputed bill, the rebate shall be allowed on only that payment which is made within first seven (7) days of Metering Date, irrespective of the outcome of final settlement of the dispute.

8.6.3 No Rebate shall be payable on the Bills raised on account of Change in Law relating to taxes, duties and cess etc.

8.7 Disputed Bill

8.7.1 If the Procurer does not dispute a Monthly Bill or a Supplementary Bill raised by Power Producer by the Due Date, such Bill shall be taken as conclusive.

8.7.2 If the Procurer disputes the amount payable under a Monthly Bill or a Supplementary Bill, as the case may be, it shall within seven (7) Days of receipt of such Bill, issue a notice (the "Bill Dispute Notice") to the Power Producer setting out:

- a) the details of the disputed amount;
- b) its estimate of what the correct amount should be; and
- c) all written material in support of its claim.



- 8.7.3 If the Power Producer agrees to the claim raised in the Bill Dispute Notice issued pursuant to Article 8.7.2, the Power Producer shall revise such Bill and present along with the next Monthly Bill.
- 8.7.4 If the Power Producer does not agree to the claim raised in the Bill Dispute Notice issued pursuant to Article 8.7.2, it shall, within seven (7) Days of receiving the Bill Dispute Notice, furnish a reply to Bill Dispute Notice to the Procurer providing:
- its reasons against dispute;
 - its estimate of what the correct amount should be; and
 - all written material in support of its counter-claim.
- 8.7.5 Upon receipt of the reply to Bill Dispute Notice from Power Producer, by Procurer, under Article 8.7.4, authorized representative(s) or a director of the board of directors/ member of board of the Procurer and Power Producer shall meet and make best endeavours to amicably resolve such dispute within seven (7) Days of receipt of the reply to the Bill Dispute Notice.
- 8.7.6 If the Parties do not amicably resolve the Dispute within seven (7) Days of receipt of reply to the Bill Dispute Notice pursuant to Article 8.7.4, the matter shall be referred to Dispute resolution in accordance with ARTICLE 16:.
- 8.7.7 For the avoidance of doubt, it is clarified that despite a Dispute regarding an Invoice, Procurer shall, without prejudice to its right to Dispute, be under an obligation to make payment of 100% of the undisputed amount of the concerned Monthly Bill, and 90% of disputed amount under protest within fifteen (15) Business Days after the date of the receipt of the invoice. Once the dispute is settled, the correction amount shall be adjusted with the monthly interest rate of 1.50% computed on daily basis;

8.8 Payment Security Mechanism

- 8.8.1 Procurer shall provide to the Power Producer, in respect of payment of its Monthly Bills and/or Supplementary Bills, a monthly unconditional, revolving and irrevocable letter of credit ("Letter of Credit"), opened and maintained which may be drawn upon by the Power Producer in accordance with this Article.
- 8.8.2 Not later than one (1) Month before the SCOD, including the extension granted, if any, Procurer through a scheduled bank at _____ [Identified Place] open a Letter of Credit in favour of the Power Producer, to be made operative from a date prior to the Due Date of its first Monthly Bill under this PPA.
- 8.8.3 The Letter of Credit shall have a term of twelve (12) Months and shall be renewed annually, for an amount:

For Government entities

- for the first Operational Year, equal to one hundred twenty percent (120%) of the estimated average monthly billing;
 - for each subsequent Operational Year, equal to one hundred and twenty percent (120%) of the average of the monthly billing of the previous Operational Year.
- 8.8.4 Provided that the Power Producer shall not draw upon such Letter of Credit prior to the end of 30th Day from the Due Date of the relevant Monthly Bill and/or Supplementary Bill, and shall not make more than one drawal in a Month.



- 8.8.5 Provided further that if at any time, such Letter of Credit amount falls short of the amount specified in Article 8.8.2 due to any reason whatsoever, Procurer shall restore such shortfall within seven (7) Business Days.
- 8.8.6 If the Power Producer draws from the Letter of Credit, the amount corresponding to the drawn amount shall be deposited in the designated bank account.
- 8.8.7 Procurer shall cause the scheduled bank issuing the Letter of Credit to intimate the Power Producer, in writing regarding establishing of such irrevocable Letter of Credit.
- 8.8.8 Procurer shall ensure that the Letter of Credit shall be renewed not later than thirty (30) Business Days prior to its expiry.
- 8.8.9 All costs relating to opening, maintenance of the Letter of Credit shall be borne by Procurer.
- 8.8.10 Where necessary, the Letter of Credit may also be substituted by an
- 8.8.10.1 unconditional and irrevocable bank guarantee;
 - 8.8.10.2 Fixed Deposit Receipt with Nodal Agency;
 - 8.8.10.3 Cash receipt with Nodal Agency;
 - 8.8.10.4 Guarantee/Assurance of the concerned Department.
- 8.8.11 If Procurer fails to pay a Monthly Bill or Supplementary Bill or part thereof within and including the 30th day from the Due Date, then, subject to Article 8.8.7, the Power Producer may draw upon the Letter of Credit, and accordingly the bank shall pay without any reference or instructions from Procurer, an amount equal to the shortfall of the payment made towards such Monthly Bill or Supplementary Bill or part thereof, if applicable, in accordance with Article 8.5 above, by presenting to the scheduled bank issuing the Letter of Credit, the following documents:
- a) a copy of the Monthly Bill or Supplementary Bill which has remained unpaid to Power Producer and;
 - b) a certificate from the Power Producer to the effect that the bill at item a) above, or specified part thereof, is in accordance with the PPA and has remained unpaid beyond the Due Date;

8.9 Quarterly and Annual Reconciliation

- 8.9.1 The Parties acknowledge that all payments made against Monthly Bills and Supplementary Bills shall be subject to quarterly reconciliation within 30 Days of the end of the quarter of each Operational Year and annual reconciliation at the end of each Operational Year within thirty (30) Days of the end of the Operational Year to take into account the Energy Accounts, payment adjustments, Tariff rebate, Late Payment Surcharge, or any other reasonable circumstance provided under this PPA.
- 8.9.2 The Parties, therefore, agree that as soon as all such data in respect of any quarter of an Operational Year or a full Operational Year, as the case may be, has been finally verified and adjusted, the Power Producer and Procurer shall jointly sign such reconciliation statement. Within fifteen (15) Days of signing of a reconciliation statement, the Power Producer shall make appropriate adjustments in the next Monthly Bill. Late Payment Surcharge/ interest shall be payable in such a case from the date on which such payment had been made to the Power Producer or the date on which any payment was originally due, as may be applicable. Any Dispute with regard to the above reconciliation shall be dealt with in accordance with the



provisions of ARTICLE 16:

8.10 Payment of Supplementary Bill

8.10.1 Procurer/ Power Producer may raise a ("Supplementary Bill") for payment on account of:

- a) Adjustments required by the Energy Accounts (if applicable); or
- b) Change in Law as provided in ARTICLE 11.;

8.10.2 Procurer shall remit all amounts due under a Supplementary Bill raised by the Power Producer to the Power Producer's Designated Account by Due Date. Similarly, the Power Producer shall pay all amounts due under a Supplementary Bill raised by Procurer by the Due Date to Procurer's designated bank account and notify such Procurer of such payment on the same Day.

8.10.3 In the event of delay in payment of a Supplementary Bill by the Power Producer beyond its Due Date or by Procurer beyond the end of 30th Day from the Due Date, as the case may be, a Late Payment Surcharge shall be payable at the same terms applicable to the Monthly Bill in Article 8.5.



ARTICLE 9: INSURANCES

9.1 Insurance

9.1.1 The Power Producer shall maintain at its own costs, throughout the Term of PPA and any extensions thereof all mandatory insurance coverage for adequate amount including but not restricted to, theft, damages, comprehensive general liability insurance covering the Project and accidental losses, bodily harm, injury, death of all individuals employed/assigned by the Power Producer to perform the services required under this PPA.

9.2 Application of Insurance Proceeds

9.2.1 Save as expressly provided in this PPA or respective Insurances, the proceeds of any insurance claim made due to loss or damage to the Project or any part of the Project shall be first applied to reinstatement, replacement or renewal or making good of such loss or damage of the Project.

9.2.2 If a Force Majeure Event renders the Project no longer economically and technically viable and the insurers under the respective Insurances make payment on a "total loss" or equivalent basis, Procurer shall have no claim on such proceeds of such Insurance.

9.3 Effect on liability of Procurer

9.3.1 Notwithstanding any liability or obligation that may arise under this PPA, any loss, damage, liability, payment, obligation or expense which is insured or not or for which the Power Producer can claim compensation, under any Insurance shall not be charged to or payable by Procurer.



ARTICLE 10: FORCE MAJEURE

10.1 Definitions

10.1.1 In this Article, the following terms shall have the following meanings:

Affected Party

10.1.2 An affected Party means Procurer or the Power Producer whose performance has been affected by an event of Force Majeure.

10.1.3 An event of Force Majeure affecting the Discom, which has affected the interconnection facilities, shall be deemed to be an event of Force Majeure affecting the Power Producer.

10.1.4 Any event of Force Majeure affecting the performance of the Power Producer's contractors shall be deemed to be an event of Force Majeure affecting Power Producer only if the Force Majeure event is affecting and resulting in:

- a) late delivery of plant, machinery, equipment, materials, spare parts, fuel, water or consumables for the Project; or
- b) a delay in the performance of any of the Power Producer's contractors for other works associated with Project.

Force Majeure

10.1.5 A 'Force Majeure' means any event or circumstance or combination of events those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations under this PPA, 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:

- 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, or exceptionally adverse weather conditions which are in excess of historical statistical measures, act of war, terrorist attack, public disorders, civil disturbances, riots, insurrection, sabotage, rebellion, blockade, embargo ;
- b) A Force Majeure Event shall not be based on the Economic hardship of either Party. In case of any damage because of force majeure event, the Project shall be repaired / commissioned at its own cost by the Power Producer.
- c) the unlawful, unreasonable or discriminatory revocation of, or refusal to renew, any Consent required by the Power Producer or any of the Power Producer's contractors to perform their obligations under the Project documents or any unlawful, unreasonable or discriminatory refusal to grant any other consent required for the development/ operation of the Project. Provided that an appropriate court of law declares the revocation or refusal to be unlawful, unreasonable and discriminatory and strikes the same down.
- d) 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 Project by the Affected Party or those employed or engaged by the Affected Party.
- e) Industry wide strikes and labour disturbances having a nationwide impact in India.



10.2 Force Majeure Exclusions

10.2.1 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) Inability to obtain permission from discom (for Category-I projects)
- b) Inability to obtain commissioning certificate from discom
- c) Unavailability, late delivery, or changes in cost of the plant, machinery, equipment, materials, spare parts, fuel or consumables for the Project;
- d) Delay in the performance of any contractor, sub-contractor or their agents excluding the conditions as mentioned in Article 10.1.5;
- e) Non-performance resulting from normal wear and tear typically experienced in power generation materials and equipment;
- f) Strikes at the facilities of the Affected Party;
- g) Insufficiency of finances or funds or the PPA becoming onerous to perform; and
- h) 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 PPA.



10.3 Notification of Force Majeure Event

- 10.3.1 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 three (3) Days after such reinstatement.
- 10.3.2 Provided that such notice of Force Majeure shall be a pre-condition to the Affected Party's entitlement to claim relief under this 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 (weekly or monthly basis, as communicated and agreed upon between the Parties in writing) reports on the existence Force Majeure and/ or progress of those remedial measures and such other information as the other Party may reasonably request about the Force Majeure Event.
- 10.3.3 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 this PPA, as soon as practicable, but not later than seven (7) Days after becoming aware of each of these cessations.
- 10.3.4 In case of delay in Payment due to Force Majeure, Affected Party shall have inform the other Party and make payment as soon as effect of Force Majeure shall be ended on Affected Party payment obligation.

10.4 Duty to Perform and Duty to Mitigate

- 10.4.1 To the extent not prevented by a Force Majeure Event pursuant to Article 10.3, the Affected Party shall continue to perform its obligations pursuant to this PPA. The Affected Party shall use its reasonable efforts to mitigate the effect of any Force Majeure Event as soon as practicable.

10.5 Available Relief for a Force Majeure Event

- 10.5.1 Subject to this ARTICLE 10:

- a) no Party shall be in breach of its obligations pursuant to this PPA except to the extent that the performance of its obligations was prevented, hindered or delayed due to a Force Majeure Event;
- b) every Party shall be entitled to claim relief in relation to a Force Majeure Event in regard to its obligations, including but not limited to those specified under Article 4.18;
- c) For avoidance of doubt, none of either Party's obligation to make payments of money due and payable prior to occurrence of Force Majeure events under this PPA shall be suspended or excused due to the occurrence of a Force Majeure Event in respect of such Party.
- d) Provided that no payments shall be made by either Party affected by a Force Majeure Event for the period of such event on account of its inability to perform its obligations due to such Force Majeure Event.



ARTICLE 11: CHANGE IN LAW

11.1 Definitions

In this Article, the following terms shall have the following meanings:

11.1.1 "Change in Law" means the occurrence of any of the following events after the Bid Submission Date resulting into any additional recurring/ non-recurring expenditure by the Power Producer or any income to the Power Producer:

- a) the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any Law, including rules and regulations framed pursuant to such Law;
- b) change in the interpretation or application of any Law by any Indian Governmental Instrumentality having the legal power to interpret or apply such Law, or any Competent Court of Law;
- c) the imposition of a requirement for obtaining any Consents, Clearances and Permits which was not required earlier;
- d) change in any Consents, approvals or licenses available or obtained for the Project, otherwise than for default of the Power Producer, which results in any change in any cost of or revenue from the business of selling electricity by the Power Producer to Procurer under the terms of this PPA;
- e) a change in the terms and conditions prescribed for obtaining any Consents or the inclusion of any new terms or conditions for obtaining such Consents; except due to any default of the Power Producer;
- f) any change in taxes, duties and cess or introduction of any taxes, duties and cess made applicable for generation and sale/ supply of power by Power Producer as per the terms of this PPA but shall not include: (i) any change in any withholding tax on income or dividends distributed to the shareholders of the Power Producer, or (ii) any change on account of regulatory measures by the Appropriate Commission or (iii) change in the rates of existing taxes applicable to the Power Producer or (iv) change in income taxes applicable for the Power Producer

11.2 Notification of Change in Law

11.2.1 If the Power Producer is affected by a Change in Law in accordance with this ARTICLE 11: and wishes to invoke a Change in Law provision, it shall give notice to Procurer of such Change in Law as soon as reasonably practicable after becoming aware of the same or should reasonably have known of the Change in Law.

11.2.2 Notwithstanding Article 11.2.1, the Power Producer shall be obliged to serve a notice to Procurer if it is beneficially affected by a Change in Law. Without prejudice to the factor of materiality or other provisions contained in this PPA, the obligation to inform Procurer contained herein shall be material. However, in case the Power Producer has not provided such notice, Procurer shall have the right to issue such notice to the Power Producer.

11.2.3 Any notice served pursuant to Change in Law shall provide, amongst other things, precise details of:

- a) the Change in Law; and



- b) the effects on the Power Producer of the matters relevant for Construction Period and the operation period for the Project.

11.3 Relief for Change in Law

- 11.3.1 The aggrieved Party shall be required to approach the State Nodal Agency for seeking appropriate relief under Change in Law.
- 11.3.2 The decision of the State Nodal Agency to acknowledge a Change in Law and the date from which it will become effective and relief provided for the same shall be final and binding on both the Parties. Principle that the purpose of compensating the Party affected by such Change in Law, is to restore through monthly bill payment, to the extent contemplated in this Article 10, the affected Party to the same economic position as if such Change in Law has not occurred.



ARTICLE 12: EVENTS OF DEFAULT AND TERMINATION

12.1 Power Producer's Event of Default

12.1.1 The occurrence and continuation of any of the following events, unless any such event occurs as a result of a Force Majeure Event or a breach by Procurer of its obligations under this PPA, shall constitute a Power Producer Event of Default:

- a) the failure to achieve COD for the PPA Capacity, within the definite time period, as defined under RFP and PPA, or any extension granted by Nodal Agency and/or Procurer;
- b) if
 - i. the Power Producer assigns, mortgages or charges or purports to assign, mortgage or charge any of its assets or rights related to the Project in contravention of the provisions of this PPA; or
 - ii. the Power Producer transfers or novates any of its rights and/ or obligations under this PPA, in a manner contrary to the provisions of this PPA; except where such transfer.
 - a. is in pursuance of a Law; and does not affect the ability of the transferee to perform, and such transferee has the financial capability to perform, its obligations under this PPA or
 - b. is to a transferee who assumes such obligations under this PPA and the PPA remains effective with respect to the transferee; or
- c) If
 - i. the Power Producer becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such proceedings remain uncontested for a period of thirty (30) Days, or
 - ii. any winding up or bankruptcy or insolvency order is passed against the Power Producer, or
 - iii. the Power Producer goes into liquidation or dissolution or has a receiver or any similar officer appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to Law; or
 - iv. Provided that a dissolution or liquidation of the Power Producer will not be a Power Producer Event of Default if such dissolution or liquidation is for the purpose of a merger, consolidation or reorganization and where the resulting company retains creditworthiness similar or more than the Power Producer and expressly assumes all obligations of the Power Producer under this PPA and is in a position to perform them; or
 - v. the Power Producer fails to make any payment (i) of an amount exceeding Rupees Five (5) Lakh required to be made to Procurer under this PPA, within three (3) Months after the Due Date of an undisputed invoice /demand raised by Procurer on the Power Producer; or
 - vi. any of the representations and warranties made by the Power Producer in PPA being found to be untrue or inaccurate. Further, in addition to the above, any of representations made or the undertakings submitted by the Power Producer at the time of submission of the Bid being found to be breached or inaccurate, including but not limited to undertakings from its parent company/ affiliates related to the minimum equity obligation; Provided however, prior to considering any event specified under this sub-Article to be an Event of Default, Procurer shall give a notice to the Power Producer in writing of at least thirty (30) Days; or
 - vii. the Power Producer repudiates this PPA and does not rectify such breach within a period



- of thirty (30) Days from a notice from Procurer in this regard; or
- viii. except where due to Procurer's failure to comply with its material obligations, the Power Producer is in breach of any of its material obligations pursuant to this PPA, and such material breach is not rectified by the Power Producer within thirty (30) Days of receipt of first notice in this regard given by Procurer.
 - ix. the Power Producer fails to complete/ fulfil the activities/conditions specified in Article 4.2, beyond a period of twenty (20) weeks from the period SCOD and Article 4.20 right of termination under this PPA can be invoked by Procurer; or
 - x. The Power Producer fails to maintain the C-PBG in accordance with PPA and RFP; or
 - xi. change in controlling shareholding before the specified time frame as mentioned in Article 4.4.1 of this PPA; or
 - xii. occurrence of any other event which is not specified in this PPA to be a material breach/ default of the Power Producer;
 - xiii. Power Producer generates solar power lower than 10% CUF on a monthly basis continuously for 6 months.

12.2 Procurer's Event of Default

12.2.1 The occurrence and the continuation of any of the following events, unless any such event occurs as a result of a Force Majeure Event or a breach by the Power Producer of its obligations under this PPA, shall constitute the Event of Default on the part of defaulting Procurer:

- a) Procurer fails to set up a Payment Security Mechanism in accordance with Article 8.8.2 at least one (1) Month before the SCOD or the newly determined SCOD based on extension granted by Nodal Agency/Procurer; or
- b) Procurer fails to pay (with respect to a Monthly Bill or a Supplementary Bill), as per ARTICLE 8; for a period of ninety (90) Days after the Due Date and the Power Producer is unable to recover the amount outstanding to the Power Producer through the Payment Security Mechanism; or
- c) Procurer repudiates this PPA and does not rectify such breach even within a period of thirty (30) Days from a notice from the Power Producer in this regard; or
- d) except where due to the Power Producer's failure to comply with its obligations under PPA and RFP, Procurer is in material breach of any of its obligations pursuant to this PPA and RFP, and such material breach is not rectified by Procurer within thirty (30) Days of receipt of notice in this regard from the Power Producer; or
- e) If
 - i. Procurer becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such proceedings remain uncontested for a period of thirty (30) Days, or
 - ii. any winding up or bankruptcy or insolvency order is passed against Procurer, or
 - iii. Procurer goes into liquidation or dissolution or a receiver or any similar officer is appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to Law,
 - iv. Procurer vacates the premises of the Project
- f) Provided that it shall not constitute a Procurer Event of Default, where such dissolution or



liquidation of Procurer or Procurer is for the purpose of a merger, consolidation or reorganization or the Procurer vacating the premises to a new entity and where the resulting entity has the financial standing to perform its obligations under this PPA and has creditworthiness similar or more than the Procurer and expressly assumes all obligations of Procurer and is in a position to perform them; or;

- g) occurrence of any other event which is not specified in this PPA but leading to a material breach or default by Procurer.

12.3 Procedure for cases of Power Producer Event of Default

12.3.1 Upon the occurrence and continuation of any Power Producer Event of Default under Article 12.2 Procurer shall have the right to deliver to the Power Producer, with a copy to the lenders of the Power Producer with whom the Power Producer has executed the Financing agreement, with a copy to the Nodal Agency, a notice stating its intention to terminate this PPA ("Procurer Preliminary Default Notice"), which shall specify in reasonable detail, the circumstances giving rise to the issue of such notice.

12.3.2 Following the issue of a Procurer Preliminary Default Notice, the Consultation Period of sixty (60) Days or such longer period as the Parties may agree, shall apply and it shall be the responsibility of the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Event of Default having regard to all the circumstances.

12.3.3 During the Consultation Period, the Parties shall continue to perform their respective obligations under this PPA & RFP.

12.3.4 Within a period of seven (7) Days following the expiry of the Consultation Period unless the Parties shall have otherwise agreed to the contrary or the Power Producer Event of Default giving rise to the Consultation Period shall have ceased to exist or shall have been remedied, the Lenders shall have the right to seek the substitution of the Power Producer by a Selectee for the residual period of this PPA for the purpose of performing obligations of the Power Producer. Such substitution of the Power Producer by a Selectee shall be as per the procedure prescribed in this PPA and with prior approval of Procurer, provided Selectee as aforesaid shall have the required qualification and experience as prescribed under the RFP.

12.3.5 In the event the Lender's total debt obligations have been completely satisfied at the time of issue of Procurer's Preliminary Default Notice and upon the occurrence and continuation of Power Producer Default and the failure by the Power Producer to rectify such default within the applicable Consultation Period specified in this ARTICLE 12: Procurer will have the option of owing the Project at the fees determined as per below formula and later Procurer may terminate this PPA by serving a fifteen (15) Days' notice to the Power Producer ("Procurer Termination Notice").

After COD

Termination payment = Net Asset Value X 50% [After COD]

Net Asset Value = Normative Project Cost X (1 – (4% X No of Operational Years))

The handover of full assets shall be without any encumbrance/liability along with warranties and insurances in force.

In such case the termination payment shall be deposited on Nodal Agency's designated bank account. Nodal Agency shall keep the share of termination payment in the ratio of subsidy paid



to total Normative Project Cost. The rest will be deposited in the designated bank account.

There will be no Termination Payment to Power Producer if the termination happens because of the reasons mentioned below:

- a) Termination before the Project COD or;
- b) event of default occurs due to cause mentioned in 12.1.1

12.3.6 The Power Producer is obligated to perform all duties mentioned in PPA and pay the Termination Payment, in case of Power Producer Event of Default, on or before the last Day of Procurer Termination Notice.

In situations where there is no transfer of asset based on the above clauses then the Power Producer should return the rooftop/project premises in the original condition existing before the start of this Project. This has to be undertaken at Power Producers cost without any liability to Procurer.

12.4 Procedure for cases of Procurer Event of Default

12.4.1 Upon the occurrence and continuation of any Procurer Event of Default specified in Article 12.2 the Power Producer shall have the right to deliver to Procurer, a Power Producer Preliminary Default Notice, which notice shall specify in reasonable detail the circumstances giving rise to its issue.

12.4.2 Following the issue of a Power Producer Preliminary Default Notice, the Consultation Period of sixty (60) Days or such longer period as the Parties may agree, shall apply and it shall be the responsibility of the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Event of Default having regard to all the circumstances.

12.4.3 During the Consultation Period, the Parties shall continue to perform their respective obligations under this PPA.

12.4.4 After a period of seven (7) Days following the expiry of the Consultation Period and unless the Parties shall have otherwise agreed to the contrary or Procurer Event of Default giving rise to the Consultation Period shall have ceased to exist or shall have been remedied. Upon the occurrence and continuation of Power Producer Default and the failure by the Procurer to rectify such default within the applicable Consultation Period specified in this ARTICLE 12: the Power Producer shall take the termination payment, to be paid by Procurer at the end of PPA termination, calculated as per below formula, and later Power Producer may terminate this PPA by serving a fifteen (15) Days' notice to the Procurer ("Power Producer Termination Notice").

Termination payment = Net Asset Value

Net Asset Value = Normative Project Cost X (1 – (4% X No of Operational Years))

In such case, the termination payment shall be deposited on Nodal Agency's designated bank account. Nodal Agency shall keep the share of termination payment in the ratio of subsidy paid to total Normative Project Cost. The rest will be deposited in the designated bank account.

If the Power Producer exercises his right to remove the assets from the premises, then the termination payment would be as below:-

Termination payment = 10% of Net Assets Value (as defined above). In such cases Power Producer will be responsible to pay the Nodal Agency the subsidy amount as below:



Subsidy payment to Nodal Agency = [Subsidy received / Normative Project Cost] X Net Asset Value

12.4.5 Procurer obligated to perform all duties mentioned in PPA and pay the termination fees, in case of Procurer Event of Default, on or before the last Day of Power Producer Termination Notice.

12.4.6 In situations where there is no transfer of asset based on the above clauses then the Power Producer should return the rooftop/project premises in the original condition existing before the start of this Project. This has to be undertaken at Power Producers cost without any liability to Procurer.

12.5 Termination due to Force Majeure

If the Force Majeure Event or its effects continue to be present beyond the period as specified in Article 4.18.3, either Party shall have the right to cause termination of the PPA. In such an event, this PPA shall terminate on the date of such Termination Notice.

12.6 Termination on request of the Procurer

12.6.1 Procurer may, on giving at least 6 months written notice to the Project Developer with a copy marked to the Lenders, terminate the PPA only after the completion of 5 Operational Years. Following the issue of a "Default Notice", a Conciliation Period of sixty (60) days or such longer period as the parties may agree, shall apply and it shall be the responsibility of the parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant solar power developer / Procurer Event of Default having regard to all the circumstances.

12.6.2 However, after the expiry of the default notice if both parties cannot reach to an amicable solution. In such case, the Procurer shall pay to Power Producer a sum as per formula given hereunder:

Termination payment = Net Asset Value

Net Asset Value = Normative Project Cost X (1- (2% X No of Operational Years)) for first 15 Operational Years;

OR

Net Asset Value = Normative Project Cost (1- (4% X No of Operational Years)) after 15 Operational Years

In such case, the termination payment shall be deposited on Nodal Agency's designated bank account. Nodal Agency shall keep the share of termination payment in the ratio of subsidy paid to total Normative Project Cost. The rest will be deposited in the designated bank account.

The Parties shall promptly execute all documents necessary to cause title to the Project to pass to Procurer on the date of termination free and clear of all liens and assign all vendor warranties for the Project to the Procurer. Upon execution of the documents and payment of the applicable purchase price in each case as described in the preceding sentence, the agreement shall stand terminated and the Procurer shall become the owner of the Project. The transfer of Project will be without any encumbrances, no assignments.

Upon such termination, the Power Producer may offer its operations and maintenance ("O&M") services to the Purchaser and the Parties may enter into an O&M agreement in



this regard. The terms and conditions of the O&M agreement will be negotiated in good faith between the Parties.

- 12.6.3 Notwithstanding Terminations, both Power Producer and Procurer shall ensure full and final settlement of respective rights and obligations pursuant to terms and conditions of this RFP and Agreement/ PPA, so that neither would have to carry and bear the burden of the other's rights and obligations. Towards fulfilment of this provision, an affidavit on a non-judicial stamp paper shall have to be furnished by both Power Producer and Procurer to each other at the time of termination.



ARTICLE 13: LIABILITY AND INDEMNIFICATION

13.1 Indemnity

13.1.1 The Power Producer shall indemnify, defend and hold Procurer harmless against:

- a. any and all third party claims against Procurer for any loss of or damage to property of such third party, or death or injury to such third party, arising out of a breach by the Power Producer of any of its obligations under this PPA; and
- b. any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest actually suffered or incurred by Procurer from third party claims arising by reason of a breach by the Power Producer of any of its obligations under this PPA or any of the representations or warranties of the Power Producer under this PPA being found to be inaccurate or untrue.
- c. Notwithstanding any liability or obligation that may arise under this PPA, any loss, damage, liability, payment, obligation or expense which is insured or not or for which the Procurer can claim compensation under any insurance policy, shall not be charged to or payable by the Power Producer.
- d. However, this ARTICLE 13: shall not apply to such breaches by the Power Producer, for which specific remedies have been provided for under this PPA)

13.2 Procedure for claiming Indemnity

13.2.1 Third party claims

- a. Where the indemnified Party is entitled to indemnification from the indemnifying Party pursuant to Article 13.1.1a, the indemnified Party shall promptly notify the indemnifying Party of such claim referred to in to Article 13.1.1a in respect of which it is entitled to be indemnified. Such notice shall be given as soon as reasonably practicable after the indemnified Party becomes aware of such claim. The indemnifying Party shall be liable to settle the indemnification claim within thirty (30) Days of receipt of the above notice. However, if:
 - i. the Parties choose to refer the dispute before the Arbitrator in accordance with Article 16.3; and
 - ii. the claim amount is not required to be paid/ deposited to such third party pending the resolution of the Dispute;
- b. the indemnifying Party shall become liable to pay the claim amount to the indemnified Party or to the third party, as the case may be, promptly following the resolution of the Dispute, if such Dispute is not settled in favour of the indemnifying Party.
- c. An indemnifying Party may, at its own expense, assume control of the defence of any proceedings brought against it by the indemnified Party.

13.3 Indemnifiable Losses

13.3.1 Where an indemnified Party is entitled to indemnifiable losses from the indemnifying Party pursuant to Article 13.1.1b, the indemnified Party shall promptly notify the Indemnifying Party of the indemnifiable losses actually incurred by the indemnified Party. The indemnifiable losses shall be reimbursed by the indemnifying Party within thirty (30) Days of receipt of the notice seeking indemnifiable losses by the indemnified Party. In case of non-payment of such losses after a valid notice under this Article, such event shall constitute a payment default under ARTICLE 12:.

13.4 Limitation on Liability



- 13.4.1 Except as expressly provided in this PPA, neither the Power Producer nor its/ their respective officers, directors, agents, employees or affiliates (or their officers, directors, agents or employees), shall be liable or responsible to the other Party or its affiliates, officers, directors, agents, employees, successors or permitted assigns or their respective insurers for incidental, indirect or consequential damages, connected with or resulting from performance or non-performance of this PPA, or anything done in connection herewith, including claims in the nature of lost revenues, income or profits (other than payments expressly required and properly due under this PPA), any increased expense of, reduction in or loss of power generation or equipment used therefore, irrespective of whether such claims are based upon breach of warranty, tort (including negligence, the Power Producer or others), strict liability, contract, breach of statutory duty, operation of law or otherwise.
- 13.4.2 Procurer shall have no recourse against any officer, director or shareholder of the Power Producer or any affiliate of the Power Producer or any of its officers, directors or shareholders for such claims excluded under this Article. The Power Producer shall have no recourse against any officer, director or shareholder of Procurer, or any affiliate of Procurer or any of its officers, directors or shareholders for such claims excluded under this Article.
- 13.4.3 Notwithstanding anything to the contrary contained elsewhere in this PPA, the provisions of this ARTICLE 13: shall apply mutatis mutandis to either Party.
- 13.5 Duty to Mitigate**
- 13.5.1 The Parties shall endeavour to take all reasonable steps so as mitigate any loss or damage which has occurred under this ARTICLE 13:.



ARTICLE 14: GENERAL COVENANTS

14.1 Power Producer's Covenants

14.1.1 The Power Producer covenants and agrees to the following:

- a) **Notice of Damage or Emergency:** The Power Producer shall (a) promptly notify Procurer if it becomes aware of any damage to or loss of the use of the Project or that could reasonably be expected to adversely affect the Project, (b) immediately notify Procurer once it becomes aware of any event or circumstance that poses an imminent risk to human health, the environment, the Project or the Premises.
- b) **Project Condition:** The Power Producer shall take all actions reasonably necessary to ensure that the Project is capable of generation and delivery of solar energy at agreed rate as per PPA & RFP. Subject to there being no Procurer Default, the Power Producer shall provide 24X7 onsite / offsite monitoring and maintenance of the Project throughout the period of this PPA at no additional cost.
- c) **Consents and Approvals:** While providing the installation work, solar power and system operations, the Power Producer shall obtain and maintain and secure all Consents and Approvals required to be obtained and maintained and secured by the Power Producer and to enable the Power Producer to perform such obligations as required under PPA and RFP.
- d) **Interconnection with Discom:** The interconnection of the Project with the network of the distribution licensee shall be made as per the technical standards for connectivity of distributed generated resources regulations as may be notified by the competent authority. The interconnection of the Project shall be as per the contracted Load and/or respective voltage level applicable to the Procurer as per the provisions of the guidelines issued by the competent authority.
- e) **Health and Safety:** The Power Producer shall take all necessary and reasonable safety precautions with respect to providing the installation work, solar energy, and system operations that shall comply with all Applicable Laws pertaining to the health and safety of persons and real and personal property.

14.2 Power Producer's Representatives

14.2.1 During the subsistence of this PPA, the Power Producer undertakes to respond to all questions, concerns and complaints of the Procurer regarding the Project in a prompt and efficient manner. The Power Producer designates the following individual as its representative pertaining to performance of this PPA for the period from Effective date till the COD:

Name:

Telephone:

E-mail:

14.2.2 The Power Producer designates the following individual as its representative and primary point of contact pertaining to performance of this PPA following the COD till Expiry Date:

Name: _____ – Project Manager

Telephone: +91 _____

E-mail: _____



14.3 Procurer's Covenants

14.3.1 Procurer covenants and agrees to the following:

- a) **Notice of Damage or Emergency:** Procurer shall (a) promptly notify the Power Producer if it becomes aware of any damage to or loss of the use of the Project or that could reasonably be expected to adversely affect the Project; (b) immediately notify the Power Producer once it becomes aware of any event or circumstance that poses an imminent risk to human health, the environment, the Project or the Premises.
- b) **Consents:** The Procurer shall cooperate with the Power Producer to obtain such approvals, permits, rebates or other financial incentives including those required for installation of Project at the Premises and to draw/ consume/ sell solar energy. However, it would be sole responsibility of Power Producer to obtain such approvals, permits, rebates or other financial incentives including those required for installation of Project at the Premises and to draw/ consume/ sell solar energy.

The Procurer should grant similar access/grants/licenses to the Lenders and Lenders Representative to enable them smooth access to the site for site inspection.

- c) In cases, where the Procurer and Building Owner are different, then similar undertaking for access to premises in favor of Lenders has to be provided by the Building Owner.
- d) **Access to Premises, Grant of Licenses:** Procurer hereby grants to the Power Producer a license co-terminus with the Term of PPA, containing all the rights necessary for the Power Producer to use and occupy portions of the Premises for the installation, operation and maintenance of the Project pursuant to the terms of this PPA, including ingress and egress rights to the Premises for the Power Producer and its employees, agents, contractors and subcontractors and access to electrical panels and conduits to interconnect or disconnect the Project with the Premises' electrical wiring with the consent and approval of the Procurer's authorized representative identified by the Procurer.
- e) **Security:** Procurer shall be responsible for maintaining the physical security of the Premises. Procurer will not conduct activities on, in or about the Premises that have a reasonable likelihood of causing damage, impairment or otherwise adversely affecting the Project.
- f) Regardless of whether Procurer is owner of the Premises or leases the Premises from a building owner, Procurer hereby covenants that (a) the Power Producer shall have access to the Premises and Project during the Term of this PPA and for so long as needed after termination to remove the Project pursuant to the applicable provisions herein, and (b) neither Procurer nor Procurer's owner will interfere or handle any of the Power Producer's equipment or the Project without written authorization from the Power Producer.
- g) **Temporary storage space during installation or removal:** Procurer shall provide sufficient space at the Premises for the temporary storage and staging of tools, materials and equipment and for the parking of construction crew vehicles and temporary construction trailers and facilities reasonably necessary during the installation work, Project operations or Project removal, and access for rigging and material handling.
- h) **Storage space during O & M period:** Procurer shall provide some space, if required, for keeping minimum tools and tackles compulsory for O & M activities, from the Initial Part



Commissioning to Expiry Date. Also, if required, minimum necessary equipment shall be kept at or near the Premises, with due permission from Procurer.

- i) **Sunlight Easements:** Procurer will take all reasonable actions as necessary to prevent other buildings, structures or flora from overshadowing or otherwise blocking access of sunlight to the Project, including but not limited to such actions as may be reasonably necessary to obtain a solar access easement for such purpose.
- i. In the event that the Procurer fails to ensure adequate space for solar equipment to ensure that other structures within his premises do not partially or wholly shade any part of the Project and if such shading occurs, the Power Producer may apply for Deemed Generation furnishing the calculation for loss in revenue due to such shading supported by the relevant data, which shall be approved by Procurer within one month of submission failing which the Power Producer shall claim provisional Deemed Generation till the issue is finally settled. In case, Procurer requested to shift the Project within the Premises to reduce/minimize the impact of shading then complete cost of shifting shall be borne by the Procurer. The costing would be as per latest Standard of Rates (SOR) published by concerned distribution utility for similar works;
- ii. In the event that the Procurer fails to ensure adequate space for solar equipment to ensure that other structures outside his premises do not partially or wholly shade any part of the Project and if such shading occurs, the Power Producer may apply for 80% of Deemed Generation furnishing the calculation for loss in revenue due to such shading supported by the relevant data, which shall be approved by Procurer within one month of submission failing which the Power Producer shall claim provisional Deemed Generation till the issue is finally settled. In case, Procurer requested to shift the Project within the Premises to reduce/minimize the impact of shading then 80% of cost of shifting shall be borne by the Procurer and remaining will be borne by Power Producer. The costing would be as per latest Standard of Rates (SOR) published by concerned distribution utility for similar works
- j) **Evacuation:** Procurer shall offtake 100% of the solar energy generated, as per PPA Capacity as agreed under this PPA, from the Delivery Point(s), and pay all invoices raised by the Power Producer under this PPA by the Due Date and pay interest on delayed payments, if any, as per this PPA.
- k) **Water:** Power Producer shall arrange water, as per the requirements of the Power Producer, for periodic cleaning of the solar panels. The raw water connection point may be provided by Procurer at site but water bill or charges against such connection shall be borne by Power Producer and to be mutually agreed between the Parties.

14.4 Procurer's Representatives

14.4.1 During the subsistence of this PPA, the Procurer undertakes to respond to all questions, concerns and complaints of the Power Producer regarding the Project in a prompt and efficient manner. The Procurer designates the following individual as its representative pertaining to performance of this PPA during the Term of PPA:

Name: _____

Telephone: _____

E-mail: _____



ARTICLE 15: ASSIGNMENTS AND CHARGES

15.1 Assignments

- 15.1.1 This PPA shall be binding upon, and inure to the benefit of the Parties and their respective successor and permitted assign. This PPA shall not be assigned by any Party other than by mutual consent between the Parties to be provided and evidenced in writing.
- 15.1.2 Provided that, respective successor or permitted assign shall meet eligibility criteria as per RFP and shall not be inferior, in any respect, to the concerned Party.
- 15.1.3 Provided that, Procurer shall permit assignment of any of Power Producer's rights and obligations under this PPA in favour of lenders of the Power Producer, if required under the Financing agreement.
- 15.1.4 Provided that, such consent shall not be withheld if Procurer seeks to transfer to any transferee all of its rights and obligations under this PPA.
- 15.1.5 Provided further that any successor or permitted assign identified after mutual PPA between the Parties may be required to execute a new PPA on the same terms and conditions as are included in this PPA.

15.2 Permitted Charges

- 15.2.1 Power Producer will have right to create encumbrance on the Project during the term of this contract.
- 15.2.2 Power Producer shall not create or permit to subsist any encumbrance over all or any of its rights and benefits under this PPA, other than as set forth in ARTICLE 15.2.1.



ARTICLE 16: GOVERNING LAW AND DISPUTE RESOLUTION

16.1 Governing Law

16.1.1 This PPA shall be governed by and construed in accordance with the Laws of India. Any legal proceedings in respect of any matters, claims or disputes under this PPA shall be under the jurisdiction of appropriate courts in Bhopal.

16.2 Amicable Settlement

16.2.1 Either Party is entitled to raise any claim, dispute or difference of whatever nature arising under, out of or in connection with PPA or RFP ("Dispute") by giving a written notice (Dispute Notice) to the other Party, which shall contain:

- a) a description of the Dispute;
- b) the grounds for such Dispute; and
- c) all written material in support of its claim

16.2.2 The other Party shall, within thirty (30) Days of issue of Dispute Notice issued under Article 16.2.1, furnish:

- a) counter-claim and defences, if any, regarding the Dispute; and
- b) all written material in support of its defences and counter-claim.

16.2.3 Within thirty (30) Days of issue of Dispute Notice by any Party pursuant to Article 16.2.1 if the other Party does not furnish any counter claim or defence under Article 16.2.2 or thirty (30) Days from the date of furnishing counter claims or defence by the other Party, both the Parties to the Dispute shall meet amicably to settle such Dispute. If the Parties fail to resolve the Dispute amicably within thirty (30) Days from the later of the dates mentioned in this Article 16.2.3, the Dispute shall be referred for dispute resolution in accordance with Article 16.3.

16.3 Dispute Resolution

16.3.1 In case of dispute with Discom related to Net-Meter, Power Producer shall seek Appropriate Commission help and other parties will extend their full support in getting favourable decision;

16.3.2 In case of Disputed Bills, it shall be open to the aggrieved Party to approach the Nodal Agency or Court for dispute resolution in accordance with settled Law and also for interim orders protecting its interest and the Parties shall be bound by the decision of the Nodal Agency.

Dispute Resolution by the Nodal Agency

16.3.3 Nodal Agency can be approached by either Party for settlement of a dispute:

- a) Where any Dispute (i) arises from a claim made by any Party for any matter related to Tariff or claims made by any Party which partly or wholly relate to any change in the Tariff or determination of any of such claims could result in change in the Tariff, or (ii) relates to any matter agreed to be referred to the Nodal Agency, such Dispute shall be submitted to the Nodal Agency.



Dispute Resolution through Arbitration

16.3.4 Dispute shall be resolved by arbitration under the provisions of the "Madhya Pradesh Madhyastham Adhikaran Adhiniyam, 1983", as amended, as under, provided not settled amicably as per this ARTICLE 16:. In such events, any party to such Dispute may refer the matter to registrar under the Rules of the Indian Council of Arbitration:

- a) The Arbitration Tribunal shall consist of three (3) Arbitrators. Each party shall appoint one Arbitrator within 30 Days of the receipt of request for settlement of dispute by Arbitration. The two appointed Arbitrators shall within 30 Days of their appointment, appoint a third Arbitrator who shall act as presiding Arbitrator. In case the party fails to appoint an Arbitrator within 30 Days from the date of receipt of request or the two appointed Arbitrator fails to agree on third Arbitrator within 30 Days of their appointment, the appointment of Arbitrator, as the case may be, shall be made in accordance with the Indian Arbitration and Conciliation Act, 1996.
- b) The place of arbitration shall be Bhopal. The language of the arbitration shall be English.
- c) The Arbitration Tribunal's award shall be substantiated in writing. The Arbitration Tribunal shall also decide on the costs of the arbitration proceedings and the allocation thereof.
- d) The provisions of this Article shall survive the termination of this PPA for any reason whatsoever.
- e) The award shall be of majority decision. If there is no majority, the award will be given by the presiding Arbitrator.
- f) Procurer shall be entitled to co-opt Discom(s) as a supporting party in such arbitration proceedings.

16.4 Parties to Perform Obligations

16.4.1 Notwithstanding the existence of any Dispute and difference referred to the Arbitration Tribunal as provided in Article 16.3 and save as the Arbitration Tribunal may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations (which are not in dispute) under this PPA or RFP.



ARTICLE 17: SUBSTITUTION RIGHTS OF LENDERS

17.1 Substitution of the Power Producer

17.1.1 Subject to the terms of the PPA, upon occurrence of an Power Producer Event of Default under the PPA, the Lenders shall, have the right to seek substitution of the Power Producer by a Selectee, meeting or exceeding eligibility criteria as per PPA or/ and RFP, for the residual period of the PPA, for the purposes of securing the payments of the Total Debt Amount from the Power Producer and performing the obligations of the Power Producer, in accordance with the provisions of this Article.

17.1.2 The Lenders may seek to exercise right of substitution by an amendment or novation of the PPA and other Project Documents executed between Procurer and the Power Producer in favour of the Selectee, Procurer and the Power Producer shall cooperate with the Lenders to carry out such substitution.

17.2 Procurer Preliminary Default Notice

17.2.1 Procurer shall, simultaneously to delivering a Procurer Preliminary Default Notice to the Power Producer, also issue a copy of it to the Lenders.

17.3 Substitution Notice

17.3.1 In the event of failure of the Power Producer to rectify the Event of Default giving rise to Procurer Preliminary Default Notice, the lenders, upon receipt of a written advice from Procurer confirming such failure, either on their own or through its representative ("the Lenders' Representative") shall be entitled to notify Procurer and the Power Producer of the intention of the Lenders to substitute the Power Producer by the Selectee, meeting or exceeding eligibility criteria as per PPA or/ and RFP, for the residual period of the PPA (the "Substitution Notice").

17.4 Interim operation of Project

17.4.1 On receipt of a Substitution Notice, no further action shall be taken by any Party to terminate the PPA, except under and in accordance with the terms of this Article of this PPA.

17.4.2 On issue of a Substitution Notice, the Lenders shall have the right to request Procurer to enter upon and takeover the Project for the interim and till the substitution of the Selectee is complete and to otherwise take all such steps as are necessary for the continued operation and maintenance of the Project, including levy, collection and appropriation of payments thereunder, subject to, the servicing of monies owed in respect of the Total Debt Amount as per the Financing agreements and the Power Producer shall completely cooperate in any such takeover of the Project by Procurer. If Procurer, at its sole and exclusive discretion agrees to enter upon and takeover the Project, till substitution of the Selectee in accordance with this PPA, Procurer shall be compensated for rendering such services in accordance with Article 17.8 herein.

17.4.3 If Procurer refuses to take over the Project on request by the Lenders in accordance with Article 17.4.2 above, the Power Producer shall have the duty and obligation to continue to operate the Project in accordance with the PPA till such time as the Selectee is finally substituted under Article 17.6.10 hereof.



17.4.4 The Lenders and Procurer shall, simultaneously have the right to commence the process of substitution of the Power Producer by the Selectee in accordance with these terms and the Power Producer hereby irrevocably consents to the same.

17.5 Process of Substitution of Power Producer

17.5.1 The Lenders' Representative may, on delivery of a Substitution Notice notify Procurer and the Power Producer on behalf of all the Lenders about the Lenders' decision to invite and negotiate, at the cost of the Lenders, offers from third parties to act as Selectee, either through private negotiations or public auction and / or a tender process, for the residual period of the PPA. Subject to and upon approval of, such Selectee shall be entitled to receive all the rights of the Power Producer and shall undertake all the obligations of the Power Producer under the PPA and other Project Documents executed between the Power Producer and Procurer, in accordance with these terms of substitution.

17.5.2 The Lenders and the Power Producer shall ensure that, upon Procurer approving the Selectee, the Power Producer shall transfer absolutely and irrevocably, the ownership of the Project to such Selectee simultaneously with the amendment or novation of the PPA and other Project Documents executed between the Power Producer and Procurer in favour of the Selectee as mentioned in Article 17.1.2.

17.6 Modality for Substitution

Criteria for selection of the Selectee:

17.6.1 The Lenders and / or the Lenders' Representative shall in addition to any other criteria that they may deem fit and necessary, apply the following criteria in the selection of the Selectee:

- a) if the Power Producer is proposed to be substituted during the Construction Period, the Selectee shall possess the financial capability used to pre-qualify bidders in the RFQ stage (including the methodology prescribed therein) to perform and discharge all the residual duties, obligations and liabilities of the under the PPA. If the Power Producer is proposed to be substituted during the Operation Period, this criteria shall not be applicable.
- b) the Selectee shall have the capability and shall unconditionally consent to assume the liability for the payment and discharge of dues, if any, of the Power Producer to Procurer under and in accordance with the PPA and also payment of the Total Debt Amount to the Lenders upon terms and conditions as agreed to between the Selectee and the Lenders;
- c) the Selectee shall have not been in breach of any PPA between the Selectee and any Bank or any Lender or between the Selectee and Procurer, involving sums greater than Rupees fifty (50) lakhs at any time in the last two (2) Operational Years as on the date of the substitution of the Power Producer.
- d) any other appropriate criteria, whereby continuity in the performance of the Selectee's obligations under the PPA is maintained and the security in favour of the Lenders under the Financing agreements is preserved.

Modalities

The following modalities shall be applicable to any substitution of the Power Producer by the Selectee pursuant to this PPA:



17.6.2 The Lenders' Representative shall on behalf of the Lenders propose to Procurer (the "Proposal") pursuant to Article 17.6.3 below, the name of the Selectee for acceptance, seeking:

- a) grant of all the rights and obligations under the PPA and the other Project Documents executed between Procurer and the Power Producer, to the Selectee (as substitute for the Power Producer);
- b) amendment of the PPA and the other Project Documents executed between Procurer and the Power Producer, to the effect that the aforementioned grant to the Selectee, shall be such that the rights and obligations assumed by the Selectee are on the same terms and conditions for the residual period of the PPA as existed in respect of the Power Producer under the original PPA and the other Project Documents executed between Procurer and the Power Producer; and
- c) the execution of new PPAs as necessary, by the proposed Selectee for the residual period of the PPA on the same terms and conditions as are included in this PPA.

17.6.3 The Proposal shall contain the particulars and information in respect of the Selectee the data and information as any of Procurer may reasonably require. Procurer may intimate any additional requirement within thirty (30) Days of the date of receipt of the Proposal.

17.6.4 The Proposal shall be accompanied by an unconditional undertaking by the Selectee that it shall, upon approval by Procurer of the Proposal:

- a) observe, comply, perform and fulfil the terms, conditions and covenants of the PPA and all Project Documents executed between Power Producer and Procurer or a new power purchase PPA or respective Project Document (in the case of the novation thereof), which according to the terms therein are required to be observed, complied with, performed and fulfilled by the Power Producer, as if such Selectee was the Power Producer originally named under the PPA; or the respective Project Document; and
- b) be liable for and shall assume, discharge and pay the Total Debt Amount or then outstanding dues to the Lenders under and in accordance with the Financing agreements or in any other manner agreed to by the Lenders and Procurer as if such Selectee was the Power Producer originally named under such Financing agreements.

17.6.5 At any time prior to taking a decision in respect of the Proposal received under Article 17.6, Procurer may require the Lender / Lenders' Representative to satisfy it as to the eligibility of the Selectee. The decision of Procurer as to acceptance or rejection of the Selectee, shall be made reasonably and when made shall be final, conclusive and binding on the Parties.

17.6.6 Procurer shall convey its approval or disapproval of such Proposal to the Lender / Lender's Representative. Such decision shall be made by Procurer at their reasonably exercised discretion within twenty one (21) Days of:

- a) the date of receipt of the Proposal by the Procurers; or
- b) the date when the last of further and other information and clarifications in respect of any data, particulars or information included in the Proposal requested by any of Procurer under Article 17.6 above is received; whichever is later.

If there is no decision is made within twenty one (21) Days, it shall be considered as deemed approval.

17.6.7 Notwithstanding anything to the contrary mentioned in this PPA, the approval of the Procurer for the Selectee shall not be withheld in case the Selectee meets the criteria mentioned in



Article 17.6.

- 17.6.8 Upon approval of the Proposal and the Selectee by Procurer, the Selectee mentioned in the Proposal shall become the Selectee hereunder.
- 17.6.9 Following the rejection of a Proposal, the Lenders and/or the Lenders' Representative shall have the right to submit a fresh Proposal, proposing another Selectee (if the rejection was on the grounds of an inappropriate third party proposed as Selectee) within sixty (60) Days of receipt of communication regarding rejection of the Selectee previously proposed. The provisions of this Article shall apply mutatis mutandis to such fresh Proposal.
- 17.6.10 The substitution of the Power Producer by the Selectee shall be deemed to be complete upon the Selectee executing all necessary documents and writings with or in favour of the Power Producer, Procurer and the Lenders so as to give full effect to the terms and conditions of the substitution, subject to which the Selectee has been accepted by the Lenders and Procurer and upon transfer of ownership and complete possession of the Project by Procurer or the Power Producer, as the case may be, to the Selectee. Procurer shall novate all the Project Documents, which they had entered in to with the Power Producer in order to make the substitution of the Power Producer by the Selectee effective. The quantum and manner of payment of the consideration payable by the Selectee to the Power Producer towards purchase of the Project and assumption of all the rights and obligations of the Power Producer under the PPA and the Project Documents as mentioned in this PPA shall be entirely between the Power Producer, Selectee and the Lenders and Procurer shall in no way be responsible to bear the same.
- 17.6.11 Upon the substitution becoming effective pursuant to Article 17.6.10 above, all the rights of the Power Producer under the PPA shall cease to exist:
- Provided that, nothing contained in this Article shall prejudice any pending / subsisting claims of the Power Producer against a Procurer or any claim of Procurer against the erstwhile Power Producer or the Selectee.
- 17.6.12 The Selectee shall, subject to the terms and conditions of the substitution, have a period of ninety (90) Days to rectify any breach and / or default of the Power Producer subsisting on the date of substitution and required to be rectified and shall incur the liability or consequence on account of any previous breach and / or default of the Power Producer.
- 17.6.13 The decision of the Lenders and Procurer in the selection of the Selectee shall be final and binding on the Power Producer and shall be deemed to have been made with the concurrence of the Power Producer. The Power Producer expressly waives all rights to object or to challenge such selection and appointment of the Selectee on any ground whatsoever.
- 17.6.14 The Lenders shall be solely and exclusively responsible for obtaining any and all consents/approvals or cooperation, which may be required to be obtained from the Power Producer under this PPA and Procurer shall not be liable for the same.
- 17.6.15 All actions of the Lenders' Representative hereunder shall be deemed to be on behalf of the Lenders and shall be binding upon them. The Lenders' Representative shall be authorised to receive payment of compensation and any other payments, including the consideration for transfer, if any, in accordance with the Proposal and the Financing agreements and shall be bound to give valid discharge on behalf of all the Lenders.



17.7 Power Producer's Waiver

- 17.7.1 The Power Producer irrevocably agrees and consents (to the extent to which applicable law may require such consent) to any actions of the Lenders, the Lender's Representative and Procurer or exercise of their rights under and in accordance with these terms.
- 17.7.2 The Power Producer irrevocably agrees and consents (to the extent to which applicable law may require such consents) that from the date specified in Article 17.6, it shall cease to have any rights under the PPA or the Financing agreements other than those expressly stated therein.
- 17.7.3 The Power Producer warrants and covenants that any PPA entered into by it, in relation to the Project, shall include a legally enforceable clause providing for automatic novation of such PPA in favour of the Selectee, at the option of the Lenders or Procurer. The Power Producer further warrants and covenants that, in respect of any PPAs which have already been executed in relation to the Project and which lack a legally enforceable clause providing for automatic novation of such PPA, the Power Producer shall procure an amendment in the concluded PPA to incorporate such clause.

17.8 Interim Protection of Service and Preservation of Security

Appointment of a Receiver

- 17.8.1 In every case of the Lenders issuing a Substitution Notice and Procurer refusing to take over the Project and the Power Producer failing to operate the Project in accordance with Article 17.4 above and Procurer not electing to act as Receiver as per Article 17.8 below, the Lenders may institute protective legal proceedings for appointment of a receiver (the "Receiver") to maintain, preserve and protect the assets held as security by the Lenders if such right is granted under the terms of the Financing agreements.
- 17.8.2 Provided that in event of Procurer refusing to take over the Project and the Power Producer failing to operate the Project in accordance with Article 17.4 above, and if the assets of the Project are, in the opinion of Procurer, necessary and required for the operation and maintenance of the Project, Procurer shall be entitled to elect to act as the Receiver for the purposes of this Article and be entitled to maintain, preserve and protect the said assets by engaging an operator/service provider to act on their behalf and the Lenders and Power Producer hereby consent and agree to the same. Upon Procurer so intimating the Power Producer and the Lender's representative their desire to act as Receiver, the Power Producer and the Lender's representative shall co-operate with Procurer to facilitate the same.
- 17.8.3 Upon appointment of the Court appointed Receiver or Procurer acting as Receiver, all the Receivables received by such Receiver shall be deposited by the Receiver in the bank account jointly designated by PROCURER and the Lenders. The Receiver shall be responsible for protecting the assets in receivership and shall render a true and proper account of the receivership to the lenders in accordance with the terms of its appointment.
- 17.8.4 When acting as a Receiver or operator in accordance with this Article 17.8 or Article 17.4, Procurer shall be entitled to be remunerated for such services as may be determined by Central Electricity Regulatory Commission. Furthermore, when acting as a Receiver, Procurer shall not be liable to the Lenders, the Lenders' Representative, Power Producer or any third party for any default under the PPA, damage or loss to the Power Station or for any other reason whatsoever, except for wilful default of Procurer.



17.9 Substitution Consideration

17.9.1 The Lenders and Procurer shall be entitled to appropriate any consideration received for the substitution of the Power Producer as hereinabove provided, from the Selectee towards the payment of Lenders' and Procurer's respective dues, to the exclusion of the Power Producer.

17.9.2 The Power Producer shall be deemed to have nominated, constituted and appoints the Lenders' Representative as its constituted attorney for doing all acts, deeds and things as may be required to be done for the substitution of the Power Producer by the Selectee pursuant to these terms.

17.10 Change in Lenders

17.10.1 The Parties hereto acknowledge that during the subsistence of the PPA, it is possible that any Lender may cease to remain as a Lender by reason of repayment of the debt or otherwise. Further it may possible that any Lender may be substituted or a new Lender may be added. In the event of any Lender ceasing to be a party to the PPA or Financing agreement respectively, the term and conditions as prescribed in this Article shall cease to automatically apply to such Lender as the case may be. Further, upon any entity being added as a Lender and in the event such entity is given the right to substitute the Power Producer under the Financing agreement and then the contents of this Article shall be applicable to the exercise of such right by the said new entity.



ARTICLE 18: REPRESENTATIONS & WARRANTIES

18.1 Representations and Warranties of Procurer

- 18.1.1 Procurer hereby represents and warrants to and agrees with the Power Producer as follows and acknowledges and confirms that the Power Producer is relying on such representations and warranties in connection with the transactions described in this PPA:
- 18.1.2 Procurer has all requisite powers authorising and has been duly authorised to execute and consummate this PPA;
- 18.1.3 This PPA is enforceable against Procurer in accordance with its terms;
- 18.1.4 The consummation of the transactions contemplated by this PPA on the part of Procurer will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, PPA, license, permit, evidence of indebtedness, restriction, or other contract to which Procurer is a party or to which Procurer is bound, which violation, default or power has not been waived;
- 18.1.5 Procurer is not insolvent and no insolvency proceedings have been instituted, nor threatened or pending by or against Procurer;
- 18.1.6 There are no actions, suits, claims, proceedings or investigations pending or, to the best of Procurer's knowledge, threatened in writing against Procurer at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgements, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to comply with its obligations under this PPA.
- 18.1.7 Procurer makes all the representations and warranties above to be valid as on the date of this PPA.

18.2 Representations and Warranties of the Power Producer

- 18.2.1 The Power Producer hereby represents and warrants to and agrees with Procurer as follows and acknowledges and confirms that Procurer is relying on such representations and warranties in connection with the transactions described in this PPA.
- 18.2.2 The Power Producer has all requisite power authorising and has been duly authorised to execute and consummate this PPA;
- 18.2.3 This PPA is enforceable against the Power Producer in accordance with its terms;
- 18.2.4 The consummation of the transactions contemplated by this PPA on the part of the Power Producer will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, PPA, license, permit, evidence of indebtedness, restriction, or other contract to which the Power Producer is a party or to which the Power Producer is bound which violation, default or power has not been waived;
- 18.2.5 The Power Producer is not insolvent and no insolvency proceedings have been instituted, or not threatened or pending by or against the Power Producer;



- 18.2.6 There are no actions, suits, claims, proceedings or investigations pending or, to the best of Power Producer's knowledge, threatened in writing against the Power Producer at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgements, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to execute the Project or to comply with its obligations under this PPA.
- 18.2.7 The Power Producer makes all the representations and warranties above to be valid as on the date of this PPA.



ARTICLE 19: MISCELLANEOUS PROVISIONS

19.1 Amendment

19.1.1 This PPA may only be amended or supplemented by a written PPA between the Parties or their successor and permitted assign and after duly obtaining the approval of the Appropriate authority, if necessary and relevant.

19.2 Third Party Beneficiaries

19.2.1 This PPA is solely for the benefit of the Parties and their respective successors and permitted assigns and shall not be construed as creating any duty, standard of care or any liability to, any person not a party to this PPA.

19.3 Industry Standard

19.3.1 Except as otherwise set forth herein, for the purpose of the PPA the normal standards of performance within the solar photovoltaic power generation industry in the relevant market shall be the measure of whether a Party's performance is reasonably and timely. Unless expressly defined herein, words having well-known technical or trade meaning or under popular market practice at the time of execution of PPA or meaning under Law shall be so construed.

19.4 Waiver

19.4.1 No waiver by either Party of any default or breach by the other Party in the performance of any of the provisions of this PPA shall be effective unless in writing duly executed by an authorised representative of such Party.

19.4.2 Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this PPA nor time or other indulgence granted by one Party to the other Parties shall act as a waiver of such breach or acceptance of any variation or the relinquishment of any such right or any other right under this PPA, which shall remain in full force and effect.

19.5 Entirety

19.5.1 This PPA and the Schedules/ Annexures are intended by the Parties as the final expression of their PPA and are intended also as a complete and exclusive statement of the terms of their PPA.

19.5.2 Except as provided in this PPA, all prior written or oral understandings, offers or other communications of every kind pertaining to this PPA or the sale or purchase of solar energy under this PPA to Procurer by the Power Producer shall stand superseded and abrogated.

19.6 Confidentiality

19.6.1 The Parties undertake to hold in confidence this PPA and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- a) to their professional advisors;
- b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities; or
- c) disclosures required under Law.
- d) without the prior written consent of the other Party.



19.6.2 Provided that the Power Producer agrees and acknowledges that Procurer may at any time, disclose the terms and conditions of the PPA and the Project Documents to any person, to the extent stipulated under the Law.

19.7 Affirmation

19.7.1 The Power Producer and Procurer, each affirm that:

- a) neither it nor its respective directors, employees, or agents has paid or undertaken to pay or shall in the future pay any unlawful commission, bribe, pay-off or kick-back; and
- b) it has not in any other manner paid any sums, whether in Indian currency or foreign currency and whether in India or abroad to the other Party to procure this PPA, and the Power Producer and Procurer hereby undertake not to engage in any similar acts during the Term of PPA.

19.8 Severability

19.8.1 The invalidity or unenforceability, for any reason, of any part of this PPA shall not prejudice or affect the validity or enforceability of the remainder of this PPA, unless the part held invalid or unenforceable is fundamental to this PPA or remainder of this PPA.

19.9 No Partnership

19.9.1 None of the provisions of this PPA shall constitute a partnership or agency or any such similar relationship between the Power Producer and Procurer.

19.10 Notices

19.10.1 All notices or other communications which are required to be given under this PPA shall be in writing and in the English language.

19.10.2 If to the Power Producer, all notices or other communications which are required must be delivered personally or by registered post or facsimile or any other method duly acknowledged to the address(es) below:

Address : 401A, Shree Guru Harkrishna Bhavan, Dr. Charat Singh Colony, A. K. Road, Andheri (East), Mumbai – 400093, Maharashtra, India

Attention :

Email : notices@cleantechsolar.com

Fax. No. :

Telephone No. :

19.10.3 If to Procurer, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the address(es) below:

Address : IIM, Indore, Prabandh Shikhar, Rau-Pithampur Road, Indore, MP

Attention :

Email :

Fax. No. :

Telephone No. :



19.10.4 All notices or communications given by e-mail or facsimile shall be confirmed by sending a copy of the same via post office in an envelope properly addressed to the appropriate Party for delivery by registered mail. All notices shall be deemed validly delivered upon receipt evidenced by an acknowledgement of the recipient, unless the Party delivering the notice can prove in case of delivery through the registered post that the recipient refused to acknowledge the receipt of the notice despite efforts of the postal authorities.

19.10.5 Any Party may by notice of at least fifteen (15) Days to the other Party change the address and/or addresses to which such notices and communications to it are to be delivered or mailed.

19.11 Language

19.11.1 All correspondence and communications between the Parties relating to this PPA and all other documentation to be prepared and supplied under the PPA shall be written in English, and the PPA shall be construed and interpreted in accordance with English language convention and practice.

19.11.2 If any of the correspondence, communications or documents is prepared in any language other than English, the English translation of such correspondence, communications or documents shall prevail in matters of interpretation.

19.12 Breach of Obligations

19.12.1 The Parties acknowledge that a breach of any of the obligations contained herein would result in injuries as per Law. The Parties further acknowledge that the amount of the Liquidated Damages or the method of calculating the Liquidated Damages specified in this PPA is a genuine and reasonable pre-estimate of the damages that may be suffered by the non-defaulting party in each case specified under this PPA.

19.13 Nomination Restriction

19.13.1 Notwithstanding anything contained to the contrary in this PPA, wherever a reference is made to the right of a Procurer to nominate a third Party to receive benefits under this PPA, such third party shall have a financial standing comparable to that of Procurer.

19.14 Commercial Acts

19.14.1 Procurer and Power Producer unconditionally and irrevocably agree that the execution, delivery and performance by each of them of this PPA to which it is a Party constitute private and commercial acts rather than public or governmental acts.

19.15 Restriction of Shareholders / Owners' Liability

19.15.1 Parties expressly agree and acknowledge that none of the shareholders of the Parties hereto shall be liable to the other Parties for any of the contractual obligations of the concerned Party under this PPA. Further, the financial liabilities of the shareholder/s of each Party to this PPA, in such Party, shall be restricted to the extent provided in Section 426 of the Indian Companies Act, 1956 as amended or replaced.

19.15.2 The provisions of this Article 19.15 shall supersede any other prior PPA or understanding, whether oral or written, that may be existing between Procurer, Power Producer, shareholders/ owners of the Power Producer or shareholders/ owners of Procurer before the date of this PPA, regarding the subject matter of this PPA.



19.16 No Consequential or Indirect Losses

19.16.1 The liability of the Power Producer and Procurer shall be limited to that explicitly provided in this PPA. Provided that notwithstanding anything contained in this PPA, under no event shall Procurer or the Power Producer claim from one another any indirect or consequential losses or damages.

19.17 Independent Entity

19.17.1 The Power Producer shall be an independent entity performing its obligations pursuant to the PPA or/ and RFP.

19.17.2 Subject to the provisions of the PPA or/ and RFP, the Power Producer shall be solely responsible for the manner in which its obligations under this PPA or/ and RFP are to be performed. All employees and representatives of the Power Producer or contractors engaged by the Power Producer in connection with the performance of the PPA or/ and RFP shall be under the complete control of the Power Producer and shall not be deemed to be employees, representatives, contractors of Procurer and nothing contained in the PPA or/ and RFP or in any PPA or contract awarded by the Power Producer shall be construed to create any contractual relationship between any such employees, representatives or contractors and Procurer.

19.18 Taxes and Duties

19.18.1 The Power Producer shall bear and promptly pay all statutory taxes, duties, levies and cess, assessed/ levied on the Power Producer, contractors or their employees, which are required to be paid by the Power Producer as per the Law in relation to the execution of the PPA or/ and RFP and for generation/ supply/ sale of solar energy as per the terms of this PPA or/ and RFP.

19.18.2 Procurer shall be indemnified and held harmless by the Power Producer against any claims that may be made against Procurer in relation to the matters set out in Article 19.18.1. Procurer shall not be liable for any payment of, taxes, duties, levies, cess whatsoever for discharging any obligation of the Power Producer by Procurer on behalf of Power Producer.

19.18.3 The financial bid should include all taxes and duties etc., if any. Power Producer shall be entirely responsible for all taxes, duties, license fees, etc. However, if any new change in tax/duty and cess is effected in the period after the Financial Bid Submission Deadline and any time during the period of Agreement, the same will be passed on by the Power Producer to the Procurer as determined by the Competent Authority.

To evaluate impact of any change of laws in future, the rates applicable for each component shall be considered as:-

- Material Component in the capital cost- 80% of the Benchmark capital cost as notified by MNRE vide notification no. 318/38/2018-GCRT dated June 15, 2018. This will include the cost of Solar Cells as 26% of the above referred benchmark capital cost
- Erection, Installation and Commissioning (I&C) component- 20% of the Benchmark capital cost and
- Yearly operational cost will be considered as 3% of the Benchmark capital cost



The Quoted Tariff would be adjusted as below based on the variations in the capital cost and operational cost on account of change in taxes. Adjustment shall be allowed only if the extent of variation in taxes is beyond the deviations specified in table below:

	Variation due to change in taxes	Proportionate adjustments to the tariff	Effective Timelines
Capital Cost (Adjustments will be considered only if the change is more than 2.5%)	$\pm X\%$	$\pm 0.8 X\%$	If the relevant change is notified after Financial Bid submission deadline till 3 months prior to the Scheduled Completion date as per the terms of PPA
Operational Cost (Adjustments will be made only if change is more than 5%)	$\pm Y\%$	$\pm 0.1 Y\%$	If the relevant change is notified after Financial Bid submission deadline, adjustments in tariff shall be provided till the time such change is in force.

19.19 Compliance with Law

19.19.1 Despite anything contained in this PPA but without prejudice to this Article, if any provision of this PPA shall be in deviation or inconsistent with or repugnant to the provisions contained in the Electricity Act, 2003, or any rules and regulations made there under, such provision of this PPA shall be deemed to be amended to the extent required to bring it into compliance with the aforesaid relevant provisions as amended from time to time.

IN WITNESS WHEREOF the Parties have caused the PPA to be executed through their duly authorized representatives as of the date and place set forth above.

For and on behalf of [Procurer]

Indian Institute of Management, Indore

Name: **PROF HIMANSHU RAI**

Designation: **DIRECTOR**

Address: Prabandh Shikhar, Rau Pithampur Road, Indore-453556, Madhya Pradesh

Signature with seal

Witness:

1. **A. K. SINGH** (A.K. SINGH) CE
- 2.

For and on behalf of [Power Producer]

Cleantech Solar Energy (India) Private Limited

Name: **For Cleantech Solar Energy (India) Private Limited**

Designation: **DIRECTOR**

Address: 401A, Shree Gurdhara Bhavan, Dr. Charat Singh Colony, A. K. Road Andheri (East), Mumbai – 400093

Signature with seal

Witness:

1. **Ankur Ghosh** (ANKUR GHOSH)
- 2.

SCHEDULE 1: SCOPE OF WORK

1. Details of work

- 1.1. Designing, engineering, supply, installation, testing and Commissioning of various capacities of Project as per standard design and specifications and connecting up to existing Mains/ACDB and interfacing internal electrical loads of Project with licensee's network/electrical loads with Comprehensive O & M for period of twenty five (25) Operational Years for Sale of Solar Power. Power Producer would have to take approval for the interfacing the Project with Grid/Electrical Loads of every location from distribution licensee/ CEIG, applicable. Comprehensive O &M for twenty five (25) Operational Year shall be required for each of the Project.
- 1.2. Bidder shall be responsible for all the works related to Commissioning and operation for twenty five (25) Operational Years of Project. In no case, Procurer or Nodal Agency shall be responsible to pay or increase in tariff for any work related to Project.
- 1.3. It is clarified that the projects awarded would not include energy storage with rooftop solar project. However, if Procurer desires to have such arrangement, it would need to pay separately for the battery storage, and associated change in design and civil and electrical works. Such arrangement would not affect the tariff discovered for sale of power.

2. The scope of work shall also include the following:

- 2.1. A layout plan of the site should be submitted to the Inspecting Authority clearly indicating the identified location for installation of SPV modules & control room, where control panels shall be installed. The Power Producer shall also submit the mode in which the system will operate in accordance with the provisions of Clauses 5.1, 5.2, 5.3 and 5.4 of Madhya Pradesh Policy for Decentralized Renewable Energy Systems, 2016 as amended from time to time;
- 2.2. Detailed planning of time bound smooth execution of Project;
- 2.3. Performance testing of the Completion and Successful Commissioning of the Project;
- 2.4. Comprehensive O &M of the Project for twenty five (25) Operational Year to assure faultless operation, and inventory maintenance; Supply of Power from Commissioning to Termination or for twenty five(25)Operational Years;
- 2.5. Coverage of risk liability of all personnel associated with implementation and realization of the Project;
- 2.6. The Power Producer shall maintain sufficient inventory of the spare parts to ensure that the Project is functional during the term of PPA;
- 2.7. The Power Producer is responsible for the waterproofing of the roof disturbed/ pierced for installation of Project for the Comprehensive O &M period of first 3 Operational Years. The Power Producer should immediately take necessary action to repair any damage to the water proofing. However, in such situations, Power Producer shall bear any loss or damage to Project and rectify the same within reasonable timeframe but any generation loss in such eventualities shall not be passed on to Procurer. If Power Producer fails to do required water proofing within 7 days from the day of identification of issue, Procurer may get the same done at prevailing market rate and Power Producer shall reimburse the same to Procurer. If the Power Producer fails to reimburse the expenses to the Procurer then such expenses



shall be adjusted by the Procurer from the energy bills of the next six (6) months.

2.8. Power Producer shall be responsible for O & M of the Project from the first Part Commissioning or SCOD, whichever is earlier, to the completion of twenty five (25) Operational Years.

2.9. In case the bidder desires to do ground mount for part/full capacity for any site then bidder should consider the associated civil costs for such sites while bidding.

3. Internal electrification:

3.1. Inspection of the existing electrical network of each of the Project site;

3.2. Inspection of the Project in respect of its interfacing with licensee network/identified electrical load;

3.3. Preparation and submission of electrical drawing for the site with quantity of material required;

3.4. Obtaining prior approval of the work and drawing from Inspecting Authority;

3.5. Execution of the work in accordance with the norms and regulation directives for testing and completion of the Project to the satisfaction of the Nodal Agency;

4. Grid connection:

4.1. The Power Producer shall be responsible for synchronization of the Project with licensee's network under Madhya Pradesh Policy for Decentralized Renewable Energy Systems, 2016 as amended from time to time. The Power Producer shall also suggest the Project Group of operation of the system mentioned in above policy and intimate the Nodal Agency;

4.2. Connectivity of Project with the licensee's network;

4.3. Commissioning of the project as applicable.

5. Metering and grid connectivity:

5.1. Metering and grid connectivity of the Projects would be the responsibility of the Power Producer in accordance with the prevailing guidelines of the concerned distribution licensee and / or CEA and net metering provisions in the state of MP. Nodal Agency and Procurer may facilitate in the process; however the entire responsibility lies only with the Power Producer. The cost of required meters shall be borne by Power Producer. This includes purchase of net meters in case of supply through Category I under Madhya Pradesh Policy for Decentralized Renewable Energy System, 2016.

5.2. In case of Category I and Category III systems, the Power Producer shall install the Generation Meter separately near the output of Inverter of both the Category systems and Net-Meter shall be located in place of present discom's metering system.

5.3. Meters and metering equipment shall be tested as per provision of MPERC and as per IS 14697 at CPRI or at any NABL accredited lab before installation at site on the cost of power producer and should be properly sealed in the presence of designated authority from MPUVNL at the time of installation.

5.4. The accuracy class, current rating and certifications of the net meter and generation meter shall confirm with the standards for net meter and standards for generation meter as provided Madhya Pradesh Policy for Decentralized Renewable Energy System, 2016 and any subsequent amendment.



6. Insurance:

The Power Producer shall also take insurance for third party liability covering loss of human life, engineers and workmen and also covering the risks of damage, theft of material/ equipment/ properties after completion of the work(s). Before commencement of the work, the Power Producer shall ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work. Liquidation, Death, Bankruptcy etc., shall be the responsibility of Power Producer.

7. Warranty and guarantees:

- 7.1. The Bidder shall warrant that the goods supplied under this Agreement are new, unused, of the most recent or latest technology and incorporate all recent improvements in design and materials as per standards specified in the technical specifications of this RFP. The Power Producer shall provide warranty covering the rectification of any and all defects in the design of equipment, materials and workmanship including spare parts for a period of twenty five (25) Operational Years.
- 7.2. The responsibility of operation of warranty and guarantee clauses and claims/ settlement of issues arising out of said clauses shall be responsibility of the Power Producer and Nodal Agency will not be responsible in any way for any claims whatsoever on account of the above.

8. Type and quality of materials and workmanship:

- 8.1. The design, engineering, manufacture, supply, installation, testing, commissioning and performance of the equipment shall be in accordance with latest/ appropriate IEC/Indian Standards as detailed in the technical specifications of this RFP or its subsequent amendments. Where appropriate Indian Standards and Codes are not available, other suitable standards and codes as approved by the MNRE/ CEA/ electricity regulators/ Nodal Agency shall be used. All the relevant test certifications must be kept valid up to one (1) Year from the COD of the Project.
- 8.2. The specifications of the components should meet the technical specifications mentioned in this PPA.
- 8.3. Any supplies which have not been specifically mentioned in this PPA but which are necessary during construction or Comprehensive O&M period of the Project shall be provided by the Power Producer without any extra cost and within the time schedule for efficient and smooth construction and Comprehensive O &M of the Project.

9. Construction of control room etc.

Construction of control room or any other relative civil work essential for Commissioning of Project;

10. Additional works

- 10.1. Additional civil, structural or electrical works which are so required/desired to be undertaken by the Procurer for the Project and which are not covered in the scope of work, shall be done by the Power Producer after obtaining concurrence of the Procurer on its design, drawing and estimate cost of such additional works shall be computed on the basis of SOR of PWD (Civil) and of DISCOM (Electrical). Cost of additional works shall be decided mutually between Power Producer and Procurer but in any case, it should not exceed the



SOR rates or the actual rates, whichever is lower. A copy of actual cost and the SOR rates assessed for additional work shall be submitted to MPUVNL for approval. Additional works may include but not limited to;

- 10.2. Laying of additional length of cable and accessories if the complete space/rooftop provided is more than 500 mtrs away from the utility/DISCOM metering point.
- 10.3. Requirement of additional/specific design of structure, as desired by Procurer in deviation with the design provided by the Power Producer, to accommodate solar panels on rooftop, ground or on any existing structure/ construction/body.
- 10.4. Construction of approach to the rooftop/place of installation.
- 10.5. Unless otherwise agreed between the Parties, the Power Producer shall not do (a) chipping of rooftop; or (b) disturb water proofing of roof (c) carry out any other modification of the Premises without the written consent of the Procurer. One time cost for strengthening of Premise to the extent required for setting up Solar PV Project during construction shall be borne by Power Producer. Any delay due to strengthening of Premise shall not be considered to extend the SCOD unless it is approved by Procurer in written. Cost of repair or maintenance of Premise to the extent required for the Solar PV Project, during the Comprehensive O &M of Project, shall be the responsibility of Power Producer, other than cost required for waterproofing. The cost for waterproofing will be the responsibility of Power Producer for a period of first three (3) Operational Years.
- 10.6. In case of any ambiguity over any specific works, Power Producer and Procurer shall involve Nodal Agency to get the clarity on the additional works.

11. Provision of sign board

Power Producer will have to provide sign board of dimension 8'x4' (M.S. sheet size 4'x3' of 16 gauge, M.S. angle 40x40x5 mm with essential bracing & adequate grouting with PCC 1:3:6 i/c painting & writing) at each site with complete specification & matter will be provided to the Power Producer with PPA.

12. Completion and Commissioning

- 12.1. **Completion:** When the Power Producer fulfils his obligation under the PPA, it shall obtain completion certificate from Nodal Agency for the PPA Capacity and part thereof. Nodal Agency shall issue separate Completion Certificate for the capacity of Project under Category I and III.
- 12.2. Procurer may purchase power produced after the Initial Part Commissioning or Completion and before commissioning from the Procurer at Quoted Tariff, on the condition that Power Producer shall follow all laws and regulation while providing solar power.
- 12.3. For the purpose of obtaining Completion certificate following documents shall be required:
 - a) Inspection Report of the Work(s) as per prescribed format provided by Nodal Agency.
 - b) CEIG Approval for the PPA Capacity or part thereof, if applicable;
 - c) Project satisfaction certificate from DREO for the PPA Capacity or part thereof. If PPA Capacity divided under Category I and III, Power Producer shall submit separate satisfaction certificate from Procurer for PPA Capacity or part thereof under Category I and III.



d) Document in support of performance of the Project and achievement of CUF of 15% subject to seasonality as per provisions of Article 4.10, as certified by the Nodal Agency. Separate performance report for the capacity under Category I and III shall be submitted by Power Producer.

12.4. In case of part Completion, Power Producer shall be required to submit all the above mentioned requisites with request for every part capacity Completion.

12.5. **Commissioning:** Part Commissioning is allowed for all the Project Groups.

12.6. Power Producer, in coordination with the Discom, shall submit Commissioning certificate, for the capacity of the Project received Completion certificate under Category I, issued by the concerned Discom, in accordance with all applicable regulations/policies.

12.7. Further, Nodal Agency shall issue the Commissioning Certificate for the capacity of the Project Completed under Category III on issuance of Completion Certificate for capacity under Category III.

12.8. In case of Part Commissioning, Power Producer shall be required to submit all the above mentioned requisites with submission of every Part Commissioning of capacity.



SCHEDULE 2: TECHNICAL SPECIFICATIONS

The proposed Projects shall be completed as per the technical specifications given below.

The Bidder are hereby advised to take a note of the draft guidelines issued by MNRE dated 09-08-2016 or any amendments thereof in respect of minimum technical requirements, quality standards, best practices and specifications for grid connected roof top PV systems in addition to technical parameters mentioned in this RFP and comply accordingly.

1. Parameters

A Project consists of SPV array, Module Mounting Structure, Power Conditioning Unit (PCU) consisting of Maximum Power Point Tracker (MPPT), charge controller (if required), Inverter, Controls & Protections, interconnect cables and switches. PV Array should be mounted on a suitable structure. Project should be designed with necessary features to synchronize with the grid power. Components and parts used in the Project including the PV modules, metallic structures, cables, junction box, switches, PCUs etc., should conform to the BIS or IEC or international specifications, wherever such specifications are available and applicable.

1.1. PROJECT SHALL CONSIST OF FOLLOWING EQUIPMENT/ COMPONENTS:

1.1.1. Solar Photovoltaic Modules

- 1.1.1.1. The PV modules used should be made in India.
- 1.1.1.2. The PV modules used must qualify to the latest edition of IEC PV module qualification test or equivalent BIS standards Crystalline Silicon Solar Cell Modules IEC 61215/IS14286. In addition, the modules must conform to IEC 61730 Part-2-requirements for construction & Part 2 – requirements for testing, for safety qualification or equivalent IS.
- 1.1.1.3. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701. The total solar PV array capacity should not be less than allocated capacity kWp) and should comprise of solar crystalline modules of minimum 250 Wp and above wattage. Module capacity less than minimum 250 Wp should not be accepted.
- 1.1.1.4. Protective devices against surges at the PV module shall be provided. Low voltage drop bypass diodes shall be provided.
- 1.1.1.5. PV modules must be tested and approved by one of the IEC authorized test centers. The module frame shall be made of corrosion resistant materials, having Pre-galvanized/ anodized Aluminium or superior material (after approval from MNRE)
- 1.1.1.6. The Power Producer shall carefully design & accommodate requisite numbers of the modules to achieve the rated power in his Bid.
- 1.1.1.7. Other general requirement for the PV modules and subsystems shall be the following:



- a) The rated output power of any supplied module shall have tolerance of +/- 3%.
 - b) The peak-power point voltage and the peak-power point current of any supplied module and/or any module string (series connected modules) shall not vary by more than 2 (two) per cent from the respective arithmetic means for all modules and/or for all module strings, as the case may be.
 - c) The module shall be provided with a junction box with either provision of external screw terminal connection or sealed type and with arrangement for provision of bypass diode. The box shall have hinged, weather proof lid with captive screws and cable gland entry points or may be of sealed type and IP-65 rated.
 - d) I-V curves at STC should be provided by Power Producer.
- 1.1.1.8. Modules deployed must use a RF identification tag. The following information must be mentioned in the RFID used on each modules (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions).
- e) Name of the manufacturer of the PV module
 - f) Name of the manufacturer of Solar Cells.
 - g) Month & year of the manufacture (separate for solar cells and modules)
 - h) Country of origin (for solar cells)
 - i) I-V curve for the module Wattage, I_m , V_m and FF for the module
 - j) Unique Serial No and Model No of the module
 - k) Date and year of obtaining IEC PV module qualification certificate.
 - l) Name of the test lab issuing IEC certificate.
 - m) Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001

1.1.1.9. Warranties

a. Material Warranty

Material Warranty is defined as:

The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a Period as specified in MNRE guidelines from the date of Completion.

Defects and/or failures due to manufacturing

Defects and/or failures due to quality of materials

Non conformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will replace the solar module(s)

b. Performance Warranty

The predicted electrical degradation of power generated not exceeding 20% of the minimum rated power over the twenty five (25)Year period and not more than 10% at the end of tenth (10th) Year of the full rated original output.



1.1.2. Array Structure

- 1.1.2.1. Hot dip galvanized MS/ Pre-galvanized/ Anodized Aluminium or superior material (after approval from MNRE) mounting structures may be used for mounting the modules/ panels/arrays. Each structure should have angle of inclination as per the site conditions to take maximum insulation. However to accommodate more capacity the angle inclination may be reduced until the Project meets the specified performance ratio requirements.
- 1.1.2.2. The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a Project is proposed to be installed (for minimum wind speed of 150 km/hour). Suitable fastening arrangement that do not require drilling in rooftops should be adopted to secure the installation against the specific wind speed.
- 1.1.2.3. The mounting structure steel shall be as per latest IS 2062: 1992 and galvanization of the mounting structure shall be in compliance of latest IS 4759.
- 1.1.2.4. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts. Aluminium structures also can be used, that can withstand the wind speed of respective wind zone. Necessary protection towards rusting need to be provided either by coating or anodization.
- 1.1.2.5. The fasteners used should be made up of stainless steel. The structures shall be designed to allow easy replacement of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels
- 1.1.2.6. Regarding civil structures the Power Producer need to take care of the load bearing capacity of the roof and need arrange suitable structures based on the quality of roof. The total load of the structure (when installed with PV modules) on the terrace should be less than 60 kg/m².
- 1.1.2.7. The minimum clearance of the structure from the roof level should be 300 mm.

1.1.3. Junction Boxes (JBS) Based on System Design Requirements

- 1.1.3.1. The junction boxes are to be provided in the PV array for termination of connecting cables. The J. Boxes (JBs) shall be made of GRP/FRP/Powder Coated Aluminium/cast aluminium alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JB's shall be such that input & output termination can be made through suitable cable glands.
- 1.1.3.2. Copper bus bars/terminal blocks housed in the junction box with suitable termination threads Conforming to IP65 standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry. Single / double compression cable glands with provision of earthings. It should be placed at 5 feet or suitable height for ease of accessibility.
- 1.1.3.3. Each Junction Box shall have High quality Suitable capacity Metal Oxide Varistors (MOVs) / SPDs, suitable Reverse Blocking Diodes. The Junction Boxes shall have suitable arrangement monitoring and disconnection for each of the groups.
- 1.1.3.4. Suitable markings shall be provided on the bus bar for easy identification and the



cable ferrules must be fitted at the cable termination points for identification

1.1.4. DC Distribution Board Based on System Design Requirements

- 1.1.4.1. DC Distribution panel to receive the DC output from the array field.
- 1.1.4.2. DC DPBs shall have sheet from enclosure of dust & vermin proof conform to IP 65 protection. The bus bars are made of copper of desired size. Suitable capacity MCBs/MCCB shall be provided for controlling the DC power output to the PCU along with necessary surge arrestors.

1.1.5. AC Distribution Panel Board

- 1.1.5.1. AC Distribution Panel Board (DPB) shall control the AC power from PCU/ inverter, and should have necessary surge arrestors. Interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
- 1.1.5.2. All switches and the circuit breakers, connectors should conform to IEC 60947, part I, II and III/ IS60947 part I, II and III.
- 1.1.5.3. The changeover switches, cabling work should be undertaken by the Power Producer as part of the project.
- 1.1.5.4. All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air - insulated, cubical type suitable for operation on three phase / single phase, 415 or 230 volts, 50 Hz.
- 1.1.5.5. The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
- 1.1.5.6. All indoor panels will have protection of IP54 or better. All outdoor panels will have protection of IP65 or better.
- 1.1.5.7. Should conform to Indian Electricity Act and rules (till last amendment).
- 1.1.5.8. All the 415 AC or 230 volts devices / equipment like bus support insulators, circuit breakers, SPDs, VTs etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions:-

Variation in supply voltage	+/- 10 %
Variation in supply frequency	+/- 3 Hz

1.1.5.9. PCU/Array Size Ratio

- a) The combined DC wattage of all inverters should not be less than rated capacity of Project under STC.
- b) Maximum power point tracker shall be integrated in the PCU/inverter to maximize energy drawn from the array.

1.1.5.10. PCU/ Inverter

- a) As SPV array produce direct current electricity, it is necessary to convert this direct current into alternating current and adjust the voltage levels to match the grid voltage. Conversion shall be achieved using an electronic Inverter and the associated control and protection devices. All these components of the Project are



termed the "Power Conditioning Unit (PCU)". In addition, the PCU shall also house MPPT (Maximum Power Point Tracker), an interface between Solar PV array & the Inverter, to the PCU/inverter should also be DG set interactive. The PCU should also have provision of charge controller in case of systems. If necessary. Inverter output should be compatible with the grid frequency. Typical technical features of the inverter shall be as follows:

- Switching devices: IGBT/MOSFET
 - Control Microprocessor /DSP
 - Nominal AC output voltage and frequency: 415V, 3 Phase, 50 Hz (In case single phase inverters are offered, suitable arrangement for balancing the phases must be made.)
 - Output frequency: 50 Hz
 - Grid Frequency Synchronization range: + 3 Hz or more
 - Ambient temperature considered: -20° C to 50° C
 - Humidity: 95 % Non-condensing
 - Protection of Enclosure: IP-20(Minimum) for indoor: IP-65(Minimum) for outdoor.
 - Grid Frequency Tolerance range: + 3 or more
 - Grid Voltage tolerance: - 20% & + 15 %
 - Inverter efficiency(minimum): >93% (In case of 10kWp or above)
 - Inverter efficiency (minimum) : > 90% (In case of less than 10 kWp)
 - THD: < 3%
 - PF: > 0.9
- b) Three phase PCU/ inverter shall be used as required.
- c) PCU/inverter shall be capable of complete automatic operation including wake-up, synchronization & shutdown.
- d) The output of power factor of PCU inverter is suitable for all voltage ranges or sink of reactive power; inverter should have internal protection arrangement against any sustainable fault in feeder line and against the lightning on feeder.
- e) Built-in meter and data logger to monitor Project performance retrievable through external computer shall be provided.
- f) The power conditioning units/inverters should comply with applicable IEC/ equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683 and IEC 60068- 2(1,2,14,30)/Equivalent BIS Std.
- g) The charge controller (if any) / MPPT units environmental testing should qualify IEC 60068-2(1, 2, 14, 30)/Equivalent BIS standard. The junction boxes/ enclosures should be IP 65(for outdoor)/ IP 54 (indoor) and as per IEC 529 specifications.



- h) The PCU/ inverters should be tested from the MNRE approved test centres/NABL/BIS/IEC accredited testing-calibration laboratories. In case of imported power conditioning units, these should be approved by international test houses.

1.1.6. Integration Of PV Power With Grid

1.1.6.1. For better grid interaction and functioning of Project, the following arrangement shall be ensured by Power Producer:

- a) Project should have appropriate instruments installed at solar panel output, inverter and load to facilitate minute-wise recording and storage of monthly data (voltage, current, generation, consumption and grid injection) for twelve (12) Months of energy flow at various nodes.
- b) In case of network failure, or low or high voltage, Project shall go under islanding mode but not be out of synchronization so far as its operation with connected load is concerned. The supply from Project to the load points would be resumed, once the DG set comes into service, Project shall again be synchronised with DG supply and load requirement would be met to the extent of availability of power. 4 pole isolation of inverter output with respect to the grid/ DG power connection need to be provided.
- c) The Project commissioned under the Madhya Pradesh Policy for Decentralised Renewable Energy Systems, 2016 as amended from time to time, shall be provided with reverse protection relays in order to prevent reverse flow of active power into the Grid. The relay and devices used for such arrangement shall be of relevant standards.

1.1.7. Data Acquisition System / Project Monitoring

1.1.7.1. Data Acquisition System shall be provided for each of the solar PV Project.

1.1.7.2. Data Logging Provision for Project control and monitoring, time and date stamped system data logs for analysis computer for data monitoring, metering and instrumentation for display of systems parameters and status indication to be provided. The time integration period of data will be maximum of 15 minutes.

1.1.7.3. The following parameters should be accessible via the operating interface display in real time separately for Project:

- a) AC Voltage
- b) AC Output current.
- c) Output Power
- d) Power factor
- e) DC Input Voltage
- f) DC Input Current
- g) Time Active
- h) Time disabled
- i) Time Idle



- j) Power produced
 - k) Protective function limits (Viz-AC Over voltage, AC Under voltage, Over frequency, Under frequency ground fault, PV starting voltage, PV stopping voltage).
- 1.1.7.4. All major parameters available on the digital bus and logging facility for energy auditing through the internal microprocessor and read on the digital front panel at any time) and logging facility (the current values, previous values for up to a Year and the average values) should be made available for energy auditing through the internal microprocessor and should be read on the digital front panel.
- 1.1.7.5. String and array DC Voltage, Current and Power, Inverter AC output voltage and current (All 3 phases and lines), AC power (Active, Reactive and Apparent), Power Factor and AC energy (All 3 phases and cumulative) and frequency shall be monitored.
- 1.1.7.6. The data shall be recorded in a common work sheet chronologically date wise. The data file shall be MS Excel compatible. The data shall be represented in both tabular and graphical form.
- 1.1.7.7. All instantaneous data should be available through RMS.
- 1.1.7.8. Software shall be provided for USB download and analysis of DC and AC parametric data for individual Project.
- 1.1.7.9. Provision for Internet monitoring and download of data shall be necessarily incorporated for projects.
- 1.1.7.10. Remote Monitoring and data acquisition through Remote Monitoring System software with latest software/hardware configuration and service connectivity for online / real time data monitoring/control complete to be supplied and Comprehensive O&M/control to be ensured by the supplier. Provision for interfacing these data on Nodal Agency server and portal in future shall be kept.
- 1.1.8. Transformer “If Required” & Metering**
- 1.1.8.1. Dry/oil type appropriate kVA, of transformer Step up along with all protections, switchgears, Vacuum circuit breakers, cables etc. along with required civil work.
- 1.1.8.2. The Power Producer must take approval/NOC from the concerned distribution licensee for the connectivity, technical feasibility, and synchronization of Project with distribution network and submit the same to Nodal Agency before Commissioning Project.
- 1.1.8.3. Reverse power relay shall be provided by Power Producer (if necessary), as per the local distribution licensee's requirement.
- 1.1.9. Power Consumption**
- 1.1.9.1. Regarding the generated power consumption, priority needs to be given for internal consumption first and thereafter any excess power can be exported to the distribution licensee network.
- 1.1.10. Protections**
- 1.1.10.1. The Project should be provided with all necessary protections like earthing, Lightning,



and grid islanding as follows:

1.1.10.2. Lightning Protection

- a) The SPV power Project shall be provided with lightning & overvoltage protection of appropriate size. The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors. Lightning protection should be provided as per IEC 62305 standard. The protection against induced high-voltages shall be provided by the use of metal oxide varistors (MOVs) and suitable earthing such that induced transients find an alternate route to earth.

1.1.10.3. Surge Protection

- a) Internal surge protection shall consist of three MOV type surge-arrestors connected from +ve and -ve terminals to earth (via Y arrangement).

1.1.10.4. Earthing Protection

- a) Each array structure of the PV yard should be grounded/ earthed properly as per IS:3043-1987. In addition the lightning arrester/masts should also be earthed inside the array field.
- b) Earth resistance shall not be more than 5 ohms. It shall be ensured that all the earthing points are bonded together to make them at the same potential.

1.1.11. Grid Islanding

1.1.11.1. In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands." Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Project shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided.

1.1.11.2. A manual disconnect 4pole isolation switch, besides automatic disconnection to grid would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance. This switch shall be locked by the utility personnel.

1.1.12. Cables

1.1.12.1. Cables of appropriate size to be used in the Project shall have the following characteristics:

- a) Shall meet IEC 60227/IS 694, IEC 60502/IS1554 standards
- b) Temp. Range: -10oC to +80oC.
- c) Voltage rating 660/1000V



- d) Excellent resistance to heat, cold, water, oil, abrasion, UV radiation
- e) Flexible
- f) Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop (power loss) of the entire Project to the minimum. The cables (as per IS) should be insulated with a special grade PVC compound formulated for outdoor use.
- g) Cable Routing/ Marking: All cable/wires are to be routed in a GI cable tray and suitably tagged and marked with proper manner by good quality ferule or by other means so that the cable easily identified.
- h) The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e. twenty five (25) Operational Years.
- i) The ratings given are approximately, Power Producer to indicate size and length as per system design requirement. All the cables required for the Project provided by the Power Producer. All cable schedules/layout drawings approved prior to installation.
- j) Multi Strand, Annealed high conductivity copper/aluminium conductor PVC type 'A' pressure extruded insulation or XLPE insulation. Overall PVC/XLPE insulation for UV protection Armored cable for underground laying. All cable trays including covers to be provided. All cables conform to latest edition of IEC/ equivalent BIS Standards as specified below: BOS item / component Standard Description Standard Number Cables General Test and Measuring Methods, PVC/XLPE insulated cables for working Voltage up to and including 1100 V ,UV resistant for outdoor installation IS /IEC 69947.
- k) The size of each type of DC cable selected shall be based on minimum voltage drop.
- l) The size of each type of AC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 2 %.
- m) All such external electrical works shall be required to be done as per DISCOMs SOR.
- n) All cables upto main ACDB panel should be of Copper and beyond which can be of Copper/Aluminium cables.

1.1.13.Connectivity

1.1.13.1.The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the Distribution Code/Supply Code of the State and amended from time to time. Following criteria have to be followed for selection of voltage level in the distribution licensee's network for ready reference of the solar suppliers. The work should be done in compliance with respective regulations and policy.

1.1.14.Tools & Tackles and Spares

1.1.14.1.The requirement of maintaining tools, tackles and spares at site or at service center is left to the discretion of the bidder with a condition that the same would be made available immediately as and when required.

1.1.14.2.The bidders are advice to ensure a response time of 24 hours and maximum expected turnaround time of 72 hours (under special circumstances, additional time limit may be considered).



1.1.14.3. Minimum requisite spares to be maintained by the Power Producer, in case of PCU/inverter comprising of a set of control logic cards, IGBT driver cards etc. Junction Boxes, fuses, MOVs / arrestors, MCCBs etc. along with spare set of PV modules be indicated, shall be maintained at site or at nearest service centre for the entire period of Comprehensive O&M.

1.1.15. Danger Boards and Signage

1.1.15.1. Danger boards should be provided as and where necessary as per IE Act. /IE rules as amended up to date.

1.1.16. Fire Extinguishers

1.1.16.1. The firefighting system for the proposed Project for fire protection shall consist of portable fire extinguishers in the control room for fire caused by electrical short circuits. The installation of Fire Extinguishers should conform to TAC regulations and BIS standards. The fire extinguishers shall be provided in the control room housing PCUs.

1.1.17. Drawings and Manuals

1.1.17.1. Two sets of Engineering, electrical drawings and Installation and Comprehensive O&M manuals are to be supplied. Power Producer shall provide complete technical data sheets for each equipment giving details of the specifications along with make/makes in their bid with basic design of the Project and power evacuation, synchronization as also protection equipment.

1.1.17.2. Approved ISI and reputed makes for equipment be used.

1.1.17.3. For complete electro-mechanical works, Power Producer shall supply complete design, details and drawings to Nodal Agency.

1.1.18. Planning and Designing

1.1.18.1. The Power Producer should carry out Shadow Analysis at the site and accordingly design strings & arrays layout considering optimal usage of space, material and labour. The Power Producer should submit the array layout drawings along with Shadow Analysis Report to the designated authority of Nodal Agency.

1.1.18.2. Nodal Agency reserves the right to modify the landscaping design, Layout and specification of sub-systems and components at any stage as per local site conditions/requirements.

1.1.18.3. The Power Producer shall submit preliminary drawing for approval & based on any modification or recommendation, if any. The Power Producer shall submit one sets and soft copy in CD of final drawing for formal approval to proceed with construction work.

1.1.19. Safety Measures

1.1.19.1. The Power Producer shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.



SCHEDULE 3: TARIFF SCHEDULE

Operational Year	Financial Bid for Project (INR/kWh)
1.	T1 = Rs.1.3800 per kWh (Quoted Tariff)

1. Quoted Tariff must be applicable for sale of Solar Power to Procurer from Initial Part Commissioning to the end of first Operational Year. Bidder to provide the Quoted Tariff up to 4 decimal places.
2. Quoted Tariff shall be escalated by 3% at the start of each Operational Year (second Operational Year onward) till the Expiry Date;
3. All measurement and calculation of tariff after escalation for each Operational Year shall be done up to four (4) decimal places, with the fifth digit of five (5) or above being rounded up and below five (5) being rounded down;
4. The above Quoted Tariff is inclusive of any applicable taxes. However, if any new change in tax/duty is effected in the period after the Bid Deadline and any time during the period of Agreement, the same will be passed on by the Power Producer to the Procurer.
5. Further, for clarification, PPA shall be signed for individual Projects under Project Group but Quoted Tariff shall remain the same for all Projects under Project Group. However, it shall be applicable in accordance with respective dates of COD.

Operational Year	Tariff Schedule Quoted (Rs/kWh)
1	1.3800
2	1.4214
3	1.4640
4	1.5080
5	1.5532
6	1.5998
7	1.6478
8	1.6972
9	1.7481
10	1.8006
11	1.8546
12	1.9102



RESCO Phase-II Power Purchase Agreement

Operational Year	Tariff Schedule Quoted (Rs/kWh)
13	1.9676
14	2.0266
15	2.0874
16	2.1500
17	2.2145
18	2.2809
19	2.3494
20	2.4198
21	2.4924
22	2.5672
23	2.6442
24	2.7235
25	2.8053



SCHEDULE 4: COD SCHEDULE

COD Schedule from the Date of Signing of PPA

S. No.	Milestone (Activity to be Performed)	Day
1.	PPA Effective Date	T
2.		T + [1 Month]
3.		T + [2 Month]
4.		T + [3 Month]
5.		T + [4 Month]
6.		T + [5 Month]
7.		T + [6 Month]
8.		T + [7 Month]
9.		T + [8 Month]
10.	COD	T + [9 Month]



**ANNEXURE 1: LETTER FROM NODAL AGENCY CONFIRMING THE CAPACITY AND
SUBSIDY**



FORMAT-1: FULFILLMENT CERTIFICATE

This is to certify that, Power Producer has installed a _____ kWp Part Capacity/ PPA Capacity of Project on the Premise of the Procurer in accordance with the RFP and executed PPA dated _____, 2019. The key features of the Part Capacity/ PPA Capacity is as follows:

S. No	Parameter	Description
1.	System Size Installed	_____ kWp
2.	Expected Annual Energy Generation	
3.	Module Type	No. of Module installed: Module Supplier Name: Capacity (kWp):
4.	Inverter Type & Rating	No. of Inverter: Supplier Name: Capacity (kW or kVA)
5.	Combiner Box	Number: Supplier:
6.	Electrical Parameter for interconnection	
7.	Mounting type	
8.	Surface Azimuth Angle	
9.	Tilt Angle	
10.	Wind Resistance	
11.	Remote Monitoring System	
12.	Net Metering, if required for that part of capacity	
13.	Sign Board	
14.	Danger Board	
15.	Internal wiring upto use points, if required	
16.	Any additional work done, please specify	

The Power Producer shall provide a Remote Monitoring System (RMS) to Nodal Agency/ Procurer as prescribed in RFP and/or PPA.



FORMAT 2: FORMAT FOR CONSTRUCTION PERFORMANCE BANK GUARANTEE

(To be on non-judicial stamp paper of Minimum Rs. 1000/-)

In consideration of the _____ [Insert name of the Bidder] (hereinafter referred to as (Bidder) submitting the response to Request for Proposal (RFP) for Selection of Bidders for Implementation of Grid Connected Roof Top Solar PV Projects for Sale of Solar Power aggregating to about _____ MWp under RESCO Model at various locations in the state of MP in response to the RFP dated 12th September, 2018 issued by Madhya Pradesh Urja Vikas Nigam Limited (hereinafter referred to as Nodal Agency) and Nodal Agency considering such response to the RFP of _____ [insert the name of the Power Producer] (which expression shall unless repugnant to the context or meaning thereof include its executors, administrators, successors and assignees) and selecting the Project of the Power Producer and issuing LICA No. _____ to _____ (Insert Name of Power Producer) as per terms of RFP and the same having been accepted by the selected Project Company, M/s _____ {a Special Purpose Vehicle (SPV) formed for this purpose}, if applicable]. As per the terms of the RFP, the _____ [insert name & address of bank] hereby agrees unequivocally, irrevocably and unconditionally to pay to Nodal Agency at _____ [Insert Name of the Place from the address of the Nodal Agency] forthwith on demand in writing from Nodal Agency, or any officer authorized by it in this behalf, any amount upto _____ and not exceeding Rupees _____ [Rupees _____ (Total Value in words)] only, on behalf of M/s [Insert name of the Power Producer / Project Company]. This guarantee shall be valid and binding on this Bank up to and including _____ and shall not be terminable by notice or any change in the constitution of the Bank or the term of Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective Agreement.

Our liability under this Guarantee is restricted to Rupees _____ (both in numbers and words)

Our Guarantee shall remain in force until Nodal Agency shall be entitled to invoke this Guarantee till _____. The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by Nodal Agency, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by [Insert name of the Power Producer]. The Guarantor Bank shall not require Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Bhopal shall have exclusive jurisdiction.



The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the selected Power Producer / Project Company, to make any claim against or any demand on the Power Producer or to give any notice to the Power Producer / Project Company or to enforce any security held by Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against the Power Producer / Project Company.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees _____ (Rupees _____ only) and it shall remain in force until we are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

Signature

Name

Power of Attorney No.

For

[Insert Name of the Bank]

Banker's Stamp and Full Address.

Dated this ____ day of ____, 20__

Witness:

Signature

Name and Address _____

Signature

Name and Address _____



FORMAT 3: FORMAT FOR BANK GUARANTEE (BG) FOR ADVANCE SUBSIDY

(To be on non-judicial stamp paper of Minimum Rs. 1000/-)

In consideration of the [Insert name of the Bidder] (hereinafter referred to as (Bidder) submitting the response to Request for Proposal (RFP) for Selection of Bidders for Implementation of Grid Connected Roof Top Solar PV Projects for Sale of Solar Power aggregating to about _____ MWp under RESCO Model for Sale of Solar Power at various locations in the state of MP in response to the RFP dated _____ issued by Madhya Pradesh Urja Vikas Nigam Limited (hereinafter referred to as Nodal Agency) and Nodal Agency considering such response to the RFP of [insert the name of the Power Producer] (which expression shall unless repugnant to the context or meaning thereof include its executors, administrators, successors and assignees) and selecting the Project of the Power Producer and issuing LICA No. ____ to (Insert Name of Power Producer) as per terms of RFP and the same having been accepted by the selected Project Company, M/s {a Special Purpose Vehicle (SPV) formed for this purpose}, if applicable]. As per the terms of the RFP, the [insert name & address of bank] hereby agrees unequivocally, irrevocably and unconditionally to pay to Nodal Agency at [Insert Name of the Place from the address of the Nodal Agency] forthwith on demand in writing from Nodal Agency, or any officer authorized by it in this behalf, any amount upto and not exceeding Rupees _____ [Rupees _____ (Total Value in words)] only, on behalf of M/s [Insert name of the Power Producer / Project Company]. This guarantee shall be valid and binding on this Bank up to and including _____ and shall not be terminable by notice or any change in the constitution of the Bank or the term of Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective Agreement.

Our liability under this Guarantee is restricted to Rupees _____ (both in numbers and words)

Our Guarantee shall remain in force until Nodal Agency shall be entitled to invoke this Guarantee till _____. The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by Nodal Agency, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by [Insert name of the Power Producer]. The Guarantor Bank shall not require Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Bhopal shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.



This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the selected Power Producer / Project Company, to make any claim against or any demand on the Power Producer or to give any notice to the Power Producer / Project Company or to enforce any security held by Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against the Power Producer / Project Company.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees _____ (Rupees _____ only) and it shall remain in force until we are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

Signature

Name

Power of Attorney No.

For

[Insert Name of the Bank]

Banker's Stamp and Full Address.

Dated this ____ day of ____, 20__

Witness:

Signature

Name and Address _____

Signature Name and address _____

