

H I M U R J A
(H.P Govt Energy Development Agency)
Shimla-171009

No: HIMURJA (F-7) 2/GCRTS/RESCO/2025-26

Dated June,2026

e- TENDER NOTICE

HIMURJA invites Online Bids from Prospective Bidders through e-tendering for Design, Engineering, Supply, Erection, Testing and Commissioning including warranty, operation & maintenance for 25 years for 100 kW capacity and above Grid Connected Roof Top Solar Plant for Government Buildings at different locations (Three clusters) in Himachal Pradesh under RESCO Model as per as per the H.P. Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive System based on Net Metering) Regulations, 2015 and the subsequent amendments made under the Grid Interactive Rooftop Regulations from time to time.

BY

HIMURJA, (H.P. Government Energy Development Agency)
8-A, SDA Complex, Kasumpti, Shimla- 171009.

Telephone No.: 0177/2620365/2628074

E-mail: himurja-hp@nic.in

Website: himurja.hp.gov.in

Disclaimer

- (1) Though adequate care has been taken while preparing the tender document, the bidder(s) shall satisfy themselves that the document is complete in all respect. Intimation regarding any discrepancy shall be given by the prospective bidders to the office of HIMURJA immediately. If no intimation is received from any bidder within 07 (Seven) days from the date of issuance of Tender Document, it shall be considered that the document is complete in all respect and has been received/acknowledged by the bidder(s).
- (2) HIMURJA reserves the right to modify, amend or supplement this document at any time before the bid submission date.
- (3) This Tender document has been prepared in good faith, and on best endeavor basis. Neither HIMURJA nor their employees or advisors make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this document, even if any loss or damage is caused by any act or omission on their part.
- (4) It will be the responsibility of the bidders to see the feasibility of the plant in terms of space, location, Net-Billing Policy of the State etc. before signing of the PPA. HIMURJA will have no role and responsibility in this regard.
- (5) It will be assumed that Bidder has satisfied himself with the site conditions at the Premises of Procurer and has assessed the quantum of work required to comply with the Tender and agreement conditions.

Place: Shimla

Dated: 04-06-2026

Definitions and Abbreviations

In this Tender Document the following words and expression will have the meaning as herein defined where the context so admits:

- 1.1 "ACT"** shall mean the Electricity Act, 2003 and include any modifications, amendments and substitution from time to time.
- 1.2 "BID" or "PROPOSAL"** shall mean the documents submitted by the Bidder towards meeting the techno-commercial and financial qualifying requirements, along with the price bid submitted by the Bidder.
- 1.3 "BIDDER"** shall mean Bidding Company submitting the Bid. Any reference to the Bidder includes Bidding Company including its successors, executors and permitted assigns and severally, as the context may require.
- 1.4 "CAPACITY UTILIZATION FACTOR (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 i.e. $(CUF = \text{Cumulative Project output in kWh} / (\text{installed Project capacity in kWp} \times 24 \times 365))$. 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.
- 1.5 "CHARTERED ACCOUNTANT"** shall mean a person practicing in India or a firm whereof all the partners practicing in India as a Chartered Accountant(s) within the meaning of the Chartered Accountants Act, 1949.
- 1.6 "COMPANY"** shall mean a body corporate incorporated in India under the Companies Act, 2013 or any law in India prior thereto relating to Companies, as applicable.

- 1.7 “CONTRACTED CAPACITY”** shall mean the AC capacity in KW contracted with Procurer for supply by the SPG to Procurer at the delivery point from the project, based on which the PPA is executed with Procurer.
- 1.8 “CONTRACT YEAR”** shall mean the period beginning from the Effective Date and ending on the immediately succeeding March 31st and thereafter each period of 12 months beginning on April 1st and ending on March 31st provided that the last Contract Year of this Agreement shall end on the last day of the Term of this Agreement.
- 1.9 “DAY”** shall mean calendar day.
- 1.10 “EFFECTIVE DATE”** shall mean the date as on 30th day from the date of issuance of Letter of Award, i.e. the date on which the Power Purchase Agreement (PPA) shall be executed by both the parties.
- 1.11 “GOVERNMENT BUILDING”** means buildings owned by Himachal Pradesh Government Departments, Semi-Government Departments and State-Owned Public Sector Undertakings (PSUs), including Institutions, Hospitals, Universities, Colleges, Schools, and other similar establishments.
- 1.12 “IEC”** shall mean specifications of International Electro-Technical Commission.
- 1.13 “INTER-CONNECTION POINT/ METERING POINT”** shall be the single point, at a location mutually agreed by the SPD and the beneficiary department, in line with applicable regulation/ rules where Solar Power is delivered by the SPD from the Project to the beneficiary department.

- 1.14 “LETTER OF AWARD” or “LoA”** shall mean the letter issued by HIMURJA to the selected Bidder for award of the work.
- 1.15 “MONTH”** shall mean calendar month.
- 1.16 “NET BILLING”** means the tariff for electricity supplied to the distribution licensee under the Net billing arrangement as per the H.P. Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive System based on Net Metering) Regulations, 2015 and the subsequent amendments made under the Grid Interactive Rooftop Regulations from time to time.
- 1.17 “PPA”** shall mean the Power Purchase Agreement.
- 1.18 “PROJECT CAPACITY”** shall mean the maximum AC capacity at the delivery point that can be scheduled on which the Power Purchase Agreement shall be signed.
- 1.19 “PROJECT COMMISSIONING”:** The Project will be considered as commissioned if all equipment as per rated project capacity has been installed and energy has flown into grid, in line with the Commissioning procedures defined in the Tender/ PPA.
- 1.20 “SOLAR POWER DEVELOPER (SPD)”** shall mean the Bidding Company participating in the bid and having been selected and allocated a project capacity by HIMURJA for the purpose of setting up of the Project and signing of PPA with the beneficiary department.
- 1.21 “RESCO”** shall mean Renewable Energy Service Companies.

- 1.22 “RESCO MODEL”** shall mean a business model where the Solar Project Developer sets up a Rooftop Solar PV Power Project on the rooftop of a building owned by a different entity, by obtaining right to access the rooftop/leasing the rooftop with the rooftop owning entity on mutually agreed terms and conditions, and enters into the PPA with rooftop owner/ DISCOM/ others for supply of Solar power for the term of the PPA. The Solar Project Developer is responsible for construction, commissioning, ownership and operation of the Project for the entire term of the PPA at its own risk and cost.
- 1.23 “SELECTED BIDDER” or “SUCCESSFUL BIDDER”** shall mean the Bidder selected pursuant to this Tender to set up the Project and supply electrical output as per the terms of PPA.
- 1.24 “Three Cluster”** shall mean Cluster I (comprising District Kangra and Chamba with 88 buildings and a total capacity of 5400 kW), Cluster II (comprising District Mandi, Kullu, Bilaspur and Una with 130 buildings and a total capacity of 5820 kW) and Cluster III (comprising Sirmaur, Shimla, Solan, Kinnaur and Hamirpur with 158 buildings and a total capacity of 5248 kW).
- 1.25 “Year”** shall mean 365 Days or 366 Days in case of leap year when February is of 29 Days.
- 1.26 “Ceiling Tariff”** shall mean the maximum tariff prescribed, and bidders shall quote their tariff not exceeding the said rate. The bids quoting a tariff above the Ceiling Tariff shall be treated as non-responsive.

Section I: Invitation for bids
(Effective w.e.f 04-06-2026)

| Sr. No. | Particulars | Remarks |
|---------|---|--|
| 1. | Tender Notice No. | HIMURJA (F-7) 2/ GCRTS/RESCO/2025-26 |
| 2. | Online submission of Tender Document fee(Non refundable). | Rs. 25,000 inclusive of GST |
| 3. | Online Submission of EMD | Rs 4,00,000=00 (for each of the three cluster) |
| 4. | Date of Start of downloading tender document andtime. | 06.06.2026, 10.00 AM onwards |
| 5. | Last Date & Time of downloading of document | 29.06.2026, 12 Noon |
| 6. | Last date & time for submission of technical andfinancial bid. | 29.06.2026, 500 PM |
| 7. | Online submission of EMD, Tender Document fee. The prospective bidders who has submitted EMD & Tender document fee in earlier tender not to submit fee again. (In case of above, the bidder has to pay the fee through RTGS/ NEFT- as per the given date & time schedule) in account of Chief Executive Officer, HIMURJA, A/c No 55070883802, IFSC Code- SBIN 0014639, in SBI, Kasumpti, Shimla-9 | On or before last date of submission of Technical Bids & Financial Bids 29.06.2026, 5.00 PM |
| 8. | Date & time of opening of Technical Bids (Part-I) | 30.06.2026 (11.00 A.M.) |
| 9. | Date & time of opening of Financial Bids (Part-II) | Will be intimated later. |
| 10. | Validity of Rates | One year from date of opening of price bids. |

- The eligibility criteria and other terms and conditions for the works are given in the tender document which can be download from the Portal: <https://hptenders.gov.in>
- The Tender document will be available under the Department Non-Conventional Energy Sources.
- Bidders are requested to remain updated for any notices/ amendments/ clarifications etc. to the Tender document through the website <https://hptenders.gov.in> No separate notifications will be issued for such notices/ amendments/ clarifications etc. in the print media or individually.

Section II: Instructions to the Bidder

A. NECESSITY FOR THE TENDER

Ministry of New and Renewable Energy, Govt. of India during the year 2024, approved the PM Surya Ghar: Muft Bijli Yojana. One of the major component of the PM Surya Ghar: Muft Bijli Yojana is to undertake the saturation of all Government buildings/Departments/Organizations with grid connected rooftop plants and accordingly, the baseline survey was carried out and as per the data available this tender was necessitated for the discovery of rate/tariff under RESCO mode for setting up of Grid-Connected Rooftop Solar PV Projects on Government buildings under RESCO Mode for different capacities above 100 kW capacity in the State of Himachal Pradesh under Net Billing scheme.

B. SCOPE OF WORK:

- (i) HIMURJA invites Online Bids from Prospective Bidders through e-tendering for Design, Engineering, Supply, Erection, Testing and Commissioning including warranty, operation & maintenance for 25 years for 100 kW and above capacity Grid Connected Roof Top Solar Plant to be installed in Government Buildings at different locations (Three Clusters in 11 districts) in Himachal Pradesh under RESCO Model as per as per the H.P. Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive System based on Net Metering) Regulations, 2015 and the subsequent amendments made under the Grid Interactive Rooftop Regulations from time to time.
- (ii) The Scope of the Work would essentially cover, but not limited to Identification and Site Survey of Rooftop/Ground mounted, Site Visit, Solar Potential Assessment, Finalization of Feasibility Report, Design,

Engineering, Manufacture, Supply, Storage, Civil work, Erection, Testing, Commissioning, ensuring Net Billing arrangement as per the H.P. Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive System based on Net Metering) Regulations, 2015 and the subsequent amendments made under the Grid Interactive Rooftop Regulations from time to time.

- (iii) The size of the project will be between 100 kW and above.
- (iv) The buildings to be covered under this tender will be buildings owned by Himachal Pradesh Government Departments, Semi-Government Departments and State-Owned Public Sector Undertakings (PSUs), including Institutions, Hospitals, Universities, Colleges, Schools, and other similar establishments.
- (v) The buildings in the State have been divided into three clusters as given below and the list of buildings is at Annexure “E”:

| Cluster No. | Name of Districts | No. of buildings (in Nos) | Total capacity (in kW) | Ceiling Tariff (INR/kWh) |
|-------------|--|---------------------------|------------------------|--------------------------|
| Cluster-I | Kangra & Chamba | 88 | 5400 | 3.45 |
| Cluster-II | Mandi, Kullu, Bilaspur & Una | 130 | 5820 | 3.45 |
| Cluster-III | Sirmaur, Solan, Shimla, Kinnaur & Hamirpur | 158 | 5248 | 3.45 |
| Total | | 376 | 16468 | |

- (vi) Under RESCO Mode, the entire system will be owned by the developer. Responsibility of O&M for the system lifetime (25 years) is also with the developer. The excess generation may be exported to the grid and will be adjusted under the net billing/gross metering scheme as per the HPERC regulations. The Rooftop/Ground Mounted owner has to pay a pre-decided tariff on a monthly basis for the energy generated from the solar power plant for which a PPA will be signed for 25 years period. However, no solar power will be purchased by Rooftop owner for deemed generation during grid failure or power outage due to anti-islanding protection feature of grid tied inverter.
- (vii) The Grid connected rooftop system will be installed as per the technical specifications mentioned in the document and the guidelines of HPERC/HPSEBL depending upon the energy requirements, rooftop area available. The remaining energy requirement of the beneficiary will be met by drawing power from grid at tariff of HPSEBL.

(C) Terms and Conditions:

(i) Earnest Money Deposit (EMD)/Bid Security

The Bidder shall furnish EMD in the form of Bank Guarantee (BG) valid for a period of ninety (90) days beyond the validity of the Bid from the last date of submission of the bid. The EMD will be Rs. 4,00,000=00 (Rupees Four Lakh only) for each of the three clusters and is to be submitted online only. The earnest money/bid security is required to protect the HIMURJA against risk of Bidder's conduct which would warrant the security's forfeiture. The EMD will be returned after Performance Bank Guarantee amount is submitted by the successful bidder for signing of PPA with the concerned department. No interest will be paid on Earnest Money. Unsuccessful

Bidder's earnest money / bid security will be discharged / returned as promptly possible as but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the HIMURJA subject to receipt of request letter from the bidder. The format of the Bank Guarantee is at annexure "A".

The bid security may be forfeited:

- a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form.
- b) In case successful Bidder fails to sign the Contract agreement.

(ii) Duration of bid

The bid will be valid for one year from the date of opening of the financial bid.

(iii) Performance Bank Guarantee

- (a) The bidder selected based on this Tender shall submit Performance Guarantee (PBG) amount after PPA signed and prior issuance of work order by the concerned department.
- (b) Successful Bidder shall furnish the Performance Security for the PPA signed capacity and it will be calculated as:
$$\text{PBG amount} = (\text{Rs. } 4,00,000) \times \text{PPA Signed Capacity in MW.}$$
- (c) The Performance Guarantee shall be initially valid for a period of eighteen (18) months after signing of Power Purchase agreement.
- (d) Non-submission of PBG within the above-mentioned timelines shall be treated as follows:

- (di) Non submission of the PBG by the Successful Bidder(s) may lead to cancellation of the Letter of Award of such Successful Bidder(s), and thereafter, the provisions of Clause Forfeiture of EMD shall be applicable.
- (dii) Delay upto 1 month from due date of submission of PBG: Delay charges @1% of the PBG amount per month levied on per day basis shall be paid by the Bidder to the concerned department in addition to the PBG amount.
- (diii) Delay beyond 1 month from the due date of submission of PBG: The Project shall stand terminated.
- (div) For the purpose of calculation of the above delay charges, 'month' shall be considered as a period of 30 days.
- (e) The concerned department shall return / release the Performance Bank Guarantee within thirty five days (30) after the commissioning of entire capacity awarded and after taking into account any liquidated damages due to delays in commissioning mentioned in the tender. In case of part commissioning, PBG, corresponding to the part capacity commissioned, will be released within **30** days of such part-commissioning.

D. Eligibility criteria for the bidder

(i) Technical Eligibility Criteria

The Bidder should be System Integrator, Project Developer, RESCO Company or a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto. A copy of certificate of incorporation shall be furnished along with the bid in support of above and shall be engaged in the business of Solar Power for minimum five years. The Bidder should have successfully completed Supply, Installation & Commissioning of Grid Connected Rooftop plants of cumulative 1 MW capacity, in the last five years i.e. on or after 01.01.2021, which should have been commissioned prior of this tender, for any State / Centre Government/

Department/ Organization/ autonomous body. The list of projects commissioned along with the JCRs issued or verified by State Nodal Agencies/ any Govt. agency / Purchaser (Private organization or autonomous body etc.) shall be uploaded along with the bid. The plant must be commissioned and should be operating satisfactorily for a period not less than last one year. The work order will not be considered as installed project, so there is no need to upload the work orders/purchase orders.

(ii) Financial Eligibility criteria

- The bidder should have a minimum cumulative turnover of Rs. 4.00 Crores, for the last three Financial Years i.e. (2022-23, 2023-24 and 2024-25).
- The bidder should have positive net worth in the last three years.
- Bidders shall furnish documentary evidence, duly certified by Authorized Signatory and the Statutory Auditor / Practicing Chartered Accountant of the Bidding Company in support of their financial capability. Bidder is also required to submit the documentary proof like Balance sheet along with CA certificate of Turnover.

(iii) Clarification of Bids

- a. During evaluation of the bids, the HIMURJA may, at its own discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted. If the firm does not respond to the clarification, the firm will be considered as non-responsive and the bid shall be rejected out rightly.
- b. At any time prior to the submission of the bid or prior to the opening of the financial bid HIMURJA may for any reason whether at its own initiative or in response to a clarification requested by the bidders may modify the bid document by amendments. The amendment will be notified

in writing or by fax to all prospective bidders who have received the bid documents and will be binding on them. HIMURJA will bear no responsibility or liability arising out of non receipt of the same in time or otherwise.

- (iv) HIMURJA reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders.

(E) BID SUBMISSION BY THE BIDDER

- i) Bids are required to be submitted online mode for each of the part separately. Strict adherence to the formats wherever specified, is required. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures /pamphlets. Non-adherence to formats and / or submission of incomplete information may be a ground for declaring the Bid as non-responsive. Each format has to be duly signed and stamped by the authorized signatory of the Bidder then scanned and uploaded in the Techno- Commercial Bid Part.
- ii) The bids will be submitted in two parts
 - Part I Techno Commercial Bid
 - Part II Price bid
 - It may be noted that Part I must not contain the price bid.
- Part-I containing of those bidders who satisfy the requirement of bid security deposit will only be opened at the time & date notified for opening. If any bidder indicates the price in Part-I i.e techno commercial bid, the bid will not be opened and the bid would stand rejected. Part II containing the Price bid will not be opened at the time of opening of Part-

I bid. The bidders who do not qualify in Part–I, their bid of Part –II (Price Bid) shall not be opened.

- iii) The Bidder shall furnish documentary evidence in support of meeting Eligibility Criteria as indicated in the tender document. Bidder shall also furnish unconsolidated/ consolidated audited annual accounts in support of meeting financial requirement, which shall consist of unabridged balance sheet, profit and loss account, profit appropriation account, auditor report, etc., as the case may be of Bidding Company or Financially Evaluated Entity for any of the last three (3) financial years immediately preceding the Bid Deadline which are used by the bidder for the purpose of calculation of Annual Turnover or of last Financial Year in case of Net Worth.

(F) Opening of Bids

- (i) The technical e-bids will open at the time, on the date, and at the place specified in NIT.
- (ii) Bids that are not opened and considered as non responsive shall not be considered further for evaluation, irrespective of the circumstances.
- (iii) The technical e-bids shall be evaluated for assessing responsiveness, bidders' qualification and technical confirmation.
- (iv) The bidders whose technical bids are declared as technically responsive and qualified shall be informed accordingly and their Price Bids shall be opened.

- (v) The bidders whose technical bids do not qualify, their Price Bids shall not be opened.
- (vi) Price Bids opening date shall be conveyed subsequently on the e tendering website.

(G) Evaluation of the Bids

The evaluation of Price Bid shall be carried out based on the information furnished in the uploaded E-Price Bid. The Price Bid submitted by the Bidders shall be scrutinized to ensure conformity with the NIT. Any Bid not meeting any of the requirements of this NIT may cause the Bid to be considered “non- responsive” at the sole decision of HIMURJA.

(H) Selection of the Bidder

- (i) The Levellised tariff quoted by the qualified bidders shall be ranked from the lowest to the highest for each of the three clusters, subject to the ceiling tariff fixed at Rs 3.45/kWh. Only those bids quoting tariffs below the ceiling tariff shall be considered for financial evaluation.
- (ii) For each cluster, the lowest Levellised tariff quoted by the bidders shall be treated as the lowest received rate for that respective cluster. Any bid quoting a tariff above the ceiling tariff shall be treated as non-responsive and shall not be considered further.
- (iii) The letter of empanelment shall be issued to the successful bidder(s) in each of the three clusters, and thereafter the agreement shall be signed. In case any other firm agrees to match the lowest received rate the firm will be empanelled on the said rates.
- (iv) The above tariff fixed for the term of the PPA-shall include all costs related to the Scope of Work as per the tender document and

obligations of the bidder under the PPA. The Bidder shall quote for the entire installation such that the tariff covers all the obligations in respect of Design, Supply, Erection, Testing and Commissioning including Warranty, Operation & Maintenance (25 years), inclusive of all taxes. All costs associated with net-metering/gross metering will have to be borne by the successful Bidder.

(I) Levellised Tariff

- (i) The Levellised Tariff of 25 years shall include all the costs related to above Scope of Work. Bidder shall quote for the entire facilities on a “single responsibility” basis such that the total Bid Price covers all the obligations mentioned in the Bidding Documents in respect of Design, Supply, Erection, Testing and Commissioning including Warranty, Operation & Maintenance for a period of 25 years, goods and services including spares required if any during O&M period. The Bidder has to take all permits, approvals and licenses, Insurance etc.
- (ii) The Levellised tariff quoted should include all taxes, duties and Insurance expenditure, all tax etc. if any. A bidder shall be entirely responsible for all taxes, duties, license fees, etc. All taxes payable as per Government income tax & service tax norms will be payable by the bidder.
- (iii) The Levellised tariff for 25 years shall remain firm and fixed and shall be binding on the Successful Bidder till completion of work. No escalation will be granted for any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.

- (iv) The operation & maintenance of Solar Photovoltaic Power Plant would include wear, tear, overhauling, machine breakdown, insurance, and replacement of defective modules, invertors, spares, consumables & other parts for a period of 25 years.
- (v) The Levellised tariff for 25 years shall be specified in empanelment letter based on Successful Bidder's quote @Rs/kWh for each project.
- (vi) After completion of 25 years, the plant shall be handed over to the user department in operational condition with the power output as per MNRE specifications (i.e., minimum 80% power output of the modules at the end of 25th year) without any charges.

(J) Signing of Contract Agreement

The successful Bidder will sign the contract within three weeks (21) days from the date of acceptance of the empanelment letter issued to the firm.

(K) Completion Period

Time period for the delivery, installation and commissioning of the equipments shall commence immediately after the issue of Award letter by the concerned department. The supply, installation and commissioning should be completed within 12 (Twelve months), from the date of issue of the award letter. Extension of time will be allowed for justified/ valid reasons only, which are not attributable to the bidder. The concerned department shall be the competent authority for condemnation of the delay, if any, in supply of equipment and commissioning of the project, on justified / valid reasons only. The maximum time period allowed for commissioning of the full awarded capacity with applicable liquidated damages, shall be limited to the date

as on 6 months from the Scheduled completion date or extended date (if applicable)

(L) Liquidated Damages

- (i) If the firm fails to achieve the completion of works within the time period specified in the award letter/agreement, then the firm shall have to pay to the concerned department, the liquidated damages for such default (except for the reasons not attributable to the firm) and not as a penalty, the total Performance Bank Guarantee (PBG) amount shall be en-cashed on per day basis. For e.g., if the commissioning of the capacity is delayed by 18 days beyond the Scheduled completion date, then the liquidated damages shall be: PBG amount X (18/180). The payment of deductions of such damages shall not relieve the firm from his obligations to complete the work or from any other of his obligations and liabilities under the contract.
- (ii) The LD as aforesaid shall be paid by the firm without cavil or argument and without linking with the actual losses or damages to the concerned department due to delay in completion of the works. However, in case, the firm fails to complete the work even after levying of maximum LD then concerned department will serve a Show Cause Notice to explain reasons within two week time of notice, for not executing the awarded work. If the reply submitted by the firm to the Show Cause Notice is not found to satisfactory the award will be rescinded without any further notice and the performance security deposited will be forfeited and concerned department will be at liberty to get the work done at its own or from any other agency at the risk and cost of the firm. Further the firm will be blacklisted and will not be allowed to participate further in any of the tenders.

All disputes relating to this contract shall be subject to the jurisdiction

of courts in Shimla.

(M) Commercial Operation date (COD)

The Commercial Operation Date (COD) shall be the date on which the Joint Completion Report is issued upon successful commissioning of that capacity by the beneficiary and HPSEBL. The Project Completion Report to be submitted as per Annexure C.

(N) Metering and Grid connectivity

- (i) Metering and grid connectivity of the roof top solar PV system under this scheme would be the responsibility of the Bidder in accordance with the prevailing guidelines of the concerned DISCOM and / or CEA (if available by the time of implementation). The beneficiary department could facilitate for connectivity, however, the entire responsibility lies with bidder only.
- (ii) Under Net-billing arrangement, the system is connected to the electrical grid, and a bidirectional meter measures both the electricity consumed from the grid and the excess electricity generated by the Solar Rooftop system. When the system produces more electricity than the customer uses, the surplus is fed back into the grid, and customers are billed based on the net electricity consumed.

(O) Inspection

The project progress will be monitored by concerned

department/HIMURJA through its field offices and the projects will be inspected for quality at any time during commissioning or after the completion of the project. The projects shall be inspected at any time during commissioning or after the completion of the project.

(P) Settlement of dispute

If any question, dispute or difference whatsoever shall arise between user department and the contractor, in the connection with this agreement except as to matters, the decisions for which have been specifically provided, either party may forthwith give to the other notice in writing of existence of such question, dispute or difference and the same shall be referred to the Grievance Redressal Committee headed by the Chief Executive Officer, HIMURJA. The decision shall be final and binding on both the parties. Work under the agreement shall be continuing during the above proceedings unless the User Department or the arbitrator directs otherwise.

(Q) Performance of the plant

The System shall meet minimum guaranteed generation with Performance Ratio (PR) at the time of commissioning and related Capacity Utilization Factor (CUF) as per the daily-normalized irradiance levels of the location during the O&M period. Minimum CUF for each year from the date of commissioning of the plant shall be minimum 15%. If CUF of 15% is not achieved in any year during tenure of PPA then the SPD shall be levied liquidated damages @50% of the PPA tariff for the shortfall in energy terms, in accordance with terms of the PPA. The Modules should be warranted for a performance degradation of less than 3% for the first-year of installation and below 1% per annum for the subsequent years.

(R) Power Purchase Agreement (PPA)

- (i) The concerned department shall enter into Power Purchase Agreements (PPAs) with Bidders selected based on this Tender. The copy of the draft PPA is at Annexure “B”
- (ii) A copy of standard PPA to be executed between the two parties is as per Annexure B.
- (iii) The PPA shall be signed within 30 days from the date of issue of Letter of Award (LoA), by the concerned department. Subsequent extension in this timeline shall be finalized as mutually agreed by the concerned department and the SPD.
- (iv) PPA will be executed between concerned department and selected bidder, separately for each Department.
- (v) The PPA shall be valid for a period of 25 years

(S) Default

(I) Power Producer Defaults and Power Purchaser Remedies

- (a) **Power Producer Defaults:** The following events shall be defaults with respect to the Power Producer (each, a "Power Producer Default").
 - (i) An Insolvency Event shall have occurred with respect to the Power Producer;
 - (ii) Failure to achieve Commissioning of the System within 6 months of the Effective Date; and
 - (iii) The Power Producer breaches any material term of the Agreement and (A) if such breach can be cured within sixty (60) days after Purchaser's written notice of such breach and the-Power Producer fails

to cure the same or (B) the Power Producer fails to commence and pursue a cure within such sixty (60) days period if a longer cure period is needed.

(b) Purchaser's Remedies:

- (i) If a Power Producer Default described in clause 12.1 (a) of the PPA has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to clause 13 of PPA, Purchaser shall have a right to deliver a notice of its intention to terminate this Agreement ("Purchaser Preliminary Default Notice"), which shall specify in reasonable detail, the circumstances giving rise to the issue of such notice.
- (ii) Upon the occurrence and continuation of Power Producer Default and the failure by the Power Producer to cure such default within the applicable cure period specified in this Article; the Purchaser shall be at liberty avail the services of any other firm / successful bidder.
- (iii) Following the issue of Purchaser Preliminary Default Notice, 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 Power Producer's Default having regard to all the circumstances: If the Power Producer Default is not cured within a period of sixty (60) days of the issue of Purchaser Preliminary Default Notice or any other such period mutually agreed upon by the Parties, the Purchaser shall have the right to terminate this Agreement by issuing a Purchaser Termination Notice.
- (iv) Upon the delivery of the Purchaser Termination Notice, this Agreement

shall stand terminated. The Power Producer shall have the liability to make payment within sixty (60) days from the date of Purchaser Termination Notice towards compensation to Purchaser equivalent to the difference between the Tariff and the grid rate notified by the relevant Government Authority for that point in time multiplied by the estimated Solar Power generated for a period of two (2) years following the termination, considered on normative capacity utilization factor.

- (v) If the Power Producer fails to remove the System from the Premises within one month from the date of termination, the Purchaser shall be entitled to dispose of the System in any manner it deems fit.

The Power Purchaser may exercise any other remedy it may have at law or equity or under the Agreement.

(II) **Power Purchaser Defaults and Power Producer's Remedies**

- (a) **Purchaser Default:** The following events shall be defaults with respect to Purchaser (each, a "Purchaser Default")

- (i) An Insolvency Event shall have occurred with respect to Purchaser;
- (ii) Purchaser breaches any material term of the Agreement if (A) such breach can be cured within sixty (60) days after the Power Producer's notice of such breach and Purchaser fails to so Cure, or (B) Purchaser Fails to commence and pursues aid cure within such sixty (60) day period if a longer cure period is needed; and

- (b) **Power Producer's Remedies:** If a Purchaser Default described in clause 12.2 (a) of the PPA has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to clause 13 of

the PPA, the Power Producer shall be titled to terminate this Agreement by serving a fifteen (15) days' notice and upon such termination, (A) the Power Producer shall be entitled to receive from Purchaser the Purchase Price. The Purchase Price payable shall be the Purchase Price Specified in Annexure 11 that falls on such date. Upon the payment of the Purchase Price, the Power Producer shall cause the title of the System to transfer to the Purchaser and (b) the Power Producer may exercise any other remedy it may have at law or equity or under the Agreement.

(O) Operation and Maintenance Guidelines of Grid Connected PV Plants

1. For optimal operation of PV plant, maintenance must be carried out on a regular basis.
2. All the components should be kept clean. It should be ensured that all the components are fastened well at their due place.
3. Online Performance Monitoring, controlling, troubleshooting, maintaining of logs & records. A maintenance record register is to be maintained by the operator with effect from Commissioning to record the daily generation, regular maintenance work carried out as well as any preventive and breakdown maintenance along with the date of maintenance, reasons for the breakdown, duration of the breakdown, steps taken to attend the breakdown,
4. For any issues related to operation & maintenance, a toll-free number shall be made available to the rooftop owner to resolve the same within 72 hours.

5. It is up to SPD and Host Department to mutually decide on the source and amount of water to be supplied for module cleaning during O&M period
6. Maintenance guidelines for various components viz. solar panels, inverter, wiring etc. are to be done as discussed below:

(I) SOLAR PANELS

Although the cleaning frequency for the panels will vary from site to site depending on soiling, the following is recommended for optimum performance:

- i. The panels are cleaned at least once every fifteen days.
- ii. Any bird droppings or spots should be cleaned immediately.
- iii. Use water and a soft sponge or cloth for cleaning.
- iv. Do not use detergent or any abrasive material for panel cleaning.
- v. Iso-propyl alcohol may be used to remove oil or grease stains.
- vi. Do not spray water on the panel if the panel glass is cracked or the back side is perforated.
- vii. Wipe water from module as soon as possible.
- viii. Use proper safety belts while cleaning modules at inclined roofs etc.
- ix. The modules should not be cleaned when they are excessively hot. Early morning is particularly good time for module cleaning otherwise these can be damaged.
- x. Check if there are any shade problems due to vegetation or new building. If there are, make arrangements for removing the vegetation or moving the panels to a shade-free place.
- xi. Ensure that the module terminal connections are not exposed while cleaning; this poses a risk of electric shock.
- xii. Never use panels for any unintended use, e. g. drying clothes, chips etc.
- xiii. Ensure that monkeys or other animals do not damage the panels.

(II) CABLES AND CONNECTION BOXES

- i. Check the connections for corrosion and tightness.
- ii. Check the connection box to make sure that the wires are tight, and the water seals are not damaged.
- iii. There should be no vermin inside the box.
- iv. Check the cable insulating sheath for cracks, breaks or burns. If the insulation is damaged, replace the wire
- v. If the wire is outside the building, use wire with weather-resistant insulation.
- vi. Make sure that the wire is clamped properly and that it should not rub against any sharp edges or corners.
- vii. If some wire needs to be changed, make sure it is of proper rating and type.

(III) INVERTER

- i. The inverter should be installed in a clean, dry, and ventilated area which is separated from, and not directly above, the battery bank.
- ii. Remove any excess dust in heat sinks and ventilations. This should only be done with a dry cloth or brush.
- iii. Check that vermin have not infested the inverter. Typical signs of this include
- iv. Spider webs on ventilation grills or wasps' nests in heat sinks.
- v. Check functionality, e.g. automatic disconnection upon loss of grid power supply, at least once a month.
- vi. Verify the state of DC/AC surge arrestors, cable connections, and circuit breakers.

(IV) SHUTTING DOWN THE SYSTEM

- i. Disconnect system from all power sources in accordance with instructions for all other components used in the system.
- ii. Completely cover system modules with an opaque material to prevent electricity from being generated while disconnecting conductors.
- iii. To the extent possible, system shutdown will not be done during daytime or peak generation.

(V) INSPECTION AND MAINTENANCE SCHEDULE:

| Component | Activity | Description | Interval | By |
|-----------|-------------------------------------|--|--------------------|-------------|
| PV Module | Cleaning | Clean any bird droppings /darkspots on module | Immediately | Beneficiary |
| | Cleaning | Clean PV modules with plain water or mild dish washing detergent. Do not use brushes, any types of solvents, abrasives, or harsh detergents. | Fortnightly | Beneficiary |
| | Inspection (for plants > 100kWp) | Use infrared camera to inspect for hot spots; bypass diode failure | Annual | Technician |
| Component | Activity | Description | Interval | By |

| | | | | |
|----------------|----------------|--|-----------|-----------------|
| PV Array | Inspection | Check the PV modules and rack for any damage. Note down location and serial number of damaged modules. | Annual | User/Technician |
| | Inspection | Determine if any new objects, such as vegetation growth, are causing shading of the, array and move them if possible. | Annual | User/Technician |
| | Vermin Removal | Remove bird nests or Vermin from array and rack area. | Annual | User/Technician |
| Junction Boxes | Inspection | Inspect electrical boxes for corrosion or intrusion of water or insects. Seal boxes if required. Check position of switches and breakers. Check operation of all protection devices. | Annual | Electrician |
| Wiring | Inspection | Inspect cabling for signs of cracks, defects, loose connections, overheating, arcing, short or open circuits, and ground faults. | Annual | Electrician |
| Inverter | Inspection | Observe | Quarterly | Electrician |
| Component | Activity | Description | Interval | By |

| | | | | |
|-------------------------|------------|--|------------|---------------|
| | | Instantaneous operational indicators on the faceplate of the inverter to ensure that the amount of power being generated is typical of the conditions. Inspect Inverter housing or | | |
| | | shelter for physical maintenance, if required. | | |
| Inverter | Service | Clean or replace any air filters. | As needed | Electrician |
| Instrument | Validation | Spot-check monitoring instrument (pyranometer etc.) with standard instruments to ensure that they are operational and within specifications. | Annual | PV Specialist |
| Transformer | Inspection | Inspect transformer oil level, temperature gauges, breather, silica gel, meter, connections etc. | Annual | Electrician |
| Tracker (if present) | Inspection | Inspect gears, gear boxes, bearings as required. | Annual | Technician |
| | Service | Lubricate tracker Mounting bearings, gearbox as required. | Bi- annual | Technician |
| Plant | Monitoring | Daily Operation and Performance Monitoring | Daily | Beneficiary |

| | | | | |
|-------------------------|---------------|---|------------|----------------|
| Inverter | Inspection | Observe instantaneous operational indicators on the faceplate of the inverter to ensure that the amount of power being generated is typical of the conditions. Inspect Inverter housing or shelter for physical maintenance, if required. | Quarterly | Electrician |
| Inverter | Service | Clean or replace any air filters. | As needed | Electrician |
| Instrument | Validation | Spot – check monitoring instruments (pyranometer etc.) with standard | Annual | PV Specialist |
| | | instruments to ensure that they are operational and within specifications. | | |
| Transformer | Inspection | Inspect transformer oil level, temperature gauges, breather, silica gel, meter, connections etc. | Annual | Electrician |
| Tracker (if present) | Inspection | Inspect gears, gear boxes, bearings as required. | Annual | Technician |
| | Service | Lubricate tracker mounting bearings, gearbox as required. | Bi- annual | Technician |
| Plant | Monitoring | Daily Operation and Performance Monitoring | Daily | Beneficiary |
| Spare Parts | Management | Manage inventory of spare parts. | As needed | Site in charge |
| Log book | Documentation | Document all O&M activities in a workbook available to all service personnel | Continuous | Site in charge |

TECHNICAL SPECIFICATIONS

The proposed projects shall be commissioned as per the technical specifications given below:

1. DEFINITION

A Grid connected Roof Top Solar Plant shall consist of following equipment/ components:

1. Solar Photo Voltaic (SPV) modules consisting of required number of Crystalline PV modules
2. Inverter/PCU
3. Module Mounting structures
4. Solar Meter and Bi-directional meter
5. Array Junction Boxes
6. DC Distribution Box
7. AC Distribution Box
8. Protections – Earthing, Lightning, Surge
9. Cables
10. Drawing & Manuals
11. Miscellaneous

1. Solar PV modules

- The PV modules and Solar Cell used should be as per the ALMM list approved by MNRE, GoI. (Mono crystalline only).
- The PV modules used must qualify to the latest edition of IEC standards or equivalent BIS standards, i.e. IEC 61215/IS14286, IEC 61853-Part I/IS 16170- Part I, IEC 61730 Part-1 &Part 2 and IEC 62804 (PID). For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701.
- The rated power of solar PV module shall have maximum tolerance up to

+3%.

- The peak-power point current of any supplied module string (series connected modules) shall not vary by +1% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- The peak-power point voltage of any supplied module string (series connected modules) shall not vary by + 2% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- The temperature co-efficient power of the PV module shall be equal to or better than -0.45%/°C.
- Solar PV modules of minimum capacity 250 Wp to be used.
- The PV Module efficiency should be minimum 16%.
- Solar PV modules of minimum fill factor 75%, to be used.
- All electrical parameters at STC shall have to be provided
- The PV modules shall be equipped with IP 65 or better protection level junction box with required numbers of bypass diodes of appropriate rating and appropriately sized output power cable of symmetric length with MC4 or equivalent solar connectors. The IP level for protection may be chosen based on following conditions:
 - i. An IP 65 rated enclosure is suitable for most outdoor enclosures that won't encounter extreme weather such as flooding.
 - ii. An IP 67 rated enclosure is suitable at locations which may encounter temporary submersion at depths of up to one meter.
 - iii. An IP 68 enclosure is recommended if there may exist situations of submergence for extended periods of time and at substantial depths.

All PV modules should carry a performance warranty of >90% during the first 10 years, and >80% during the next 15 years. Further, module shall have performance warranty of >97% during the first year of installation—degradation of the module below 1 % per annum.

The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (05) years from the date of commissioning:

- Defects and/or failures due to manufacturing.
- Defects and/or failures due to quality of materials.
- Nonconformity 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), at the Owners sole option.

- PV modules must be tested and approved by one of the NABL accredited and BISapproved test centers.

- Modules deployed must use a RF identification tag laminated inside the glass. The following information must be mentioned in the RFID used on each module:
 - i. Name of the manufacturer of the PV module
 - ii. Name of the manufacturer of Solar Cells.
 - iii. Month & year of the manufacture (separate for solar cells and modules)
 - iv. Country of origin (separately for solar cells and module)
 - v. I-V curve for the module Wattage, Im, Vm and FF for the module
 - vi. Unique Serial No and Model No of the module
 - vii. Date and year of obtaining IEC PV module qualification certificate.
 - viii. Name of the test lab issuing IEC certificate.
 - ix. Other relevant information on traceability of solar cells and module as perISO 9001 and ISO 14001.
 - x. Nominal wattage +3%.
 - xi. Brand Name, if applicable.

In addition to the above, the following information should also be provided:

- i. The actual Power Output P_{max} shall be mentioned on the label pasted on the back side of PV Module.
- ii. The Maximum system voltage for which the module is suitable to be provided on the back sheet of the module.
- iii. Polarity of terminals or leads (colour coding is permissible) on junction box housing near cable entry or cable and connector.

➤ Unique Serial No, Model No, Name of Manufacturer, Manufacturing year, Make in India logo and module wattage details should be displayed inside the laminated glass.

2. Inverter/PCU

- Inverters/PCU should comply with applicable IEC/equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683, IS 16221 (Part 2), IS 16169 and IEC 60068-2(1,2,14,30) /Equivalent BIS Std.
- Maximum Power Point Tracker (MPPT) shall be integrated in the inverter/PCU to maximize energy drawn from the array. 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 or better (for outdoor)/ IP 54 or better (indoor) and as per IEC 529 Specifications.
- All inverters/PCUs shall be IEC 61000 compliant for electromagnetic compatibility, harmonics, Surge, etc.

- The PCU/ inverter shall have overloading capacity of minimum 10%.

- Typical technical features of the inverter shall be as follows-
 - i.** Switching devices: IGBT/MOSFET
 - ii.** Control: Microprocessor/DSP
 - iii.** Nominal AC output voltage and frequency: as per CEA/State regulations
 - iv.** Output frequency: 50 Hz
 - v.** Grid Frequency Synchronization range: as per CEA/State Regulations
 - vi.** Ambient temperature considered: -20°C to 60°C
 - vii.** Humidity: 95 % Non-condensing
 - viii.** Protection of Enclosure: IP-54 (Minimum) for indoor and IP-65(Minimum) for outdoor.
 - ix.** Grid Frequency Tolerance range: as per CEA/State regulations
 - x.** Grid Voltage tolerance: as per CEA/State Regulations
 - xi.** No-load losses: Less than 1% of rated power
 - xii.** Inverter efficiency (Min.): >93% (In case of 10 kW or above within-built galvanic isolation)>97% (In case of 10 kW or above without in built galvanic isolation)
 - xiii.** Inverter efficiency (minimum): > 90% (In case of less than 10 kW)
 - xiv.** THD: < 3%
 - xv.** PF: > 0.9 (lag or lead)
 - xvi.** Should not inject DC power more than 0.5% of full rated output at the interconnection point and comply to IEEE 519.

- The output power factor of inverter should be suitable for all voltage ranges or sink of reactive power, inverter should have internal protection arrangement against any sustain fault in feeder line and against the lightning on feeder.

- All the Inverters should contain the following clear and indelible

Marking Label & Warning Label as per IS16221 Part II, clause 5. The equipment shall, as a minimum, be permanently marked with:

- i. The name or trademark of the manufacturer or supplier;
 - ii. A model number, name or other means to identify the equipment,
 - iii. A serial number, code or other marking allowing identification of manufacturing location and the manufacturing batch or date within a three-month time period.
 - iv. Input voltage, type of voltage (A.C. or D.C.), frequency, and maximum continuous current for each input.
 - v. Output voltage, type of voltage (A.C. or D.C.), frequency, maximum continuous current, and for A.C. outputs, either the power or power factor for each output.
 - vi. The Ingress Protection (IP) rating
- Marking shall be located adjacent to each fuse or fuse holder, or on the fuse holder, or in another location provided that it is obvious to which fuse the marking applies, giving the fuse current rating and voltage rating for fuses that may be changed at the installed site.
 - In case the consumer is having a 3- ϕ connection, 1- ϕ /3- ϕ inverter shall be provided by the firm as per the consumer's requirement and regulations of the H.P.S.E.B.L.
 - Inverter/PCU shall be capable of complete automatic operation including wake- up, synchronization & shutdown.
 - The Inverter should have a provision of remote monitoring of inverter data through sim card. Required website/mobile app platform, where the user (Consumer) can access the data, should be provided/explained to consumer while installation. Additionally, if inverter has the facility of in-built wi-fi module, that should also be explained to the consumer. On demand, Inverter should also have provision to feed the data to the remote

monitoring server using relevant API/ protocols. All the inverter data should be available for monitoring by giving web access.

➤ **Integration of PV Power with Grid & Grid Islanding:**

- i. The output power from SPV would be fed to the inverters/PCU which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization.
- ii. 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 Rooftop PV Plant 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, if not available in inverter.
- iii. MCB/MCCB or a manual 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.

3. Module Mounting Structure (MMS):

- Supply, installation, erection and acceptance of module mounting structure (MMS) with all necessary accessories, auxiliaries and spare part shall be in the scope of the work of the firm.
- Module mounting structures can be made from three types of materials i.e. Hot Dip Galvanized Iron, Aluminum and Hot Dip Galvanized Mild Steel

(MS). However, MS will be preferred for raised structure.

- MMS Steel shall be as per latest IS 2062:2011 and galvanization of the mounting structure shall be in compliance of latest IS 4759. MMS Aluminum shall be as per AA6063 T6. For Aluminum structures, necessary protection towards rusting need to be provided either by coating or anodization.
- All bolts, nuts, fasteners shall be of stainless steel of grade SS 304 or hot dip galvanized, panel mounting clamps shall be of aluminum and must sustain the adverse climatic conditions. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts.
- The module mounting structures should have angle of inclination as per the site conditions to take maximum insolation and complete shadow-free operation during generation hours. However, to accommodate more capacity the angle of inclination may be reduced until the plant meets the specified performance ratio requirements.
- The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed. The PV array structure design shall be appropriate with a factor of safety of minimum 1.5.
- The upper edge of the module must be covered with wind shield so as to avoid build air ingress below the module. Slight clearance must be provided on both edges (upper & lower) to allow air for cooling.
- Suitable fastening arrangement such as grouting and calming should be

provided to secure the installation against the specific wind speed. The firm shall be fully responsible for any damages to SPV System caused due to high wind velocity within guarantee period as per technical specification.

- The structures shall be designed to allow easy replacement, repairing and cleaning of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels. Necessary testing provision for MMS to be made available at site.
- Adequate spacing shall be provided between two panel frames and rows of panels to facilitate personnel protection, ease of installation, replacement, cleaning of panels and electrical maintenance.
- The structure shall be designed to withstand operating environmental conditions for a period of minimum 25 years.
- The Rooftop Structures maybe classified in three broad categories as follows:

i. Ballast structure

- a. The mounting structure must be Non-invasive ballast type and any sort of penetration of roof to be avoided.
- b. The minimum clearance of the structure from the roof level should be in between 70-150 mm to allow ventilation for cooling, also ease of cleaning and maintenance of panels as well as cleaning of terrace.
- c. The structures should be suitably loaded with reinforced concrete blocks of appropriate weight made out of M25 concrete mixture.

ii. Tin shed

- a. The structure design should be as per the slope of the tin shed.
- b. The inclination angle of structure can be done in two ways-

- Parallel to the tin shed (flat keeping zero-degree tiling angle), if the slope of shed in proper south direction
- With same tilt angle based on the slope of tin shed to get the maximum output.
- c. The minimum clearance of the lowest point from the tin shade should be more than 100 mm.
- d. The base of structure should be connected on the Purlin of tin shed with the proper riveting.
- e. All structure members should be of minimum 2 mm thickness.

iii. RCC Elevated structure: It can be divided into further three categories:

A. Minimum Ground clearance (300MM – 1000 MM)

- a. The structure shall be designed to allow easy replacement of any module and shall be in line with site requirement. The gap between the modules should be minimum 30MM.
- b. Base Plate – Base plate thickness of the Structure should be 5MM for this segment.
- c. Column – Structure Column should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in web side (y-axis) and 40MM in flange side (x-axis).
- e. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
- f. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
- g. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and

purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

- h. For single portrait structure the minimum ground clearance should be 500MM.

B. Medium Ground clearance (1000MM – 2000 MM)

- a. Base Plate – Base plate thickness of the Structure should be Minimum 6MM for this segment.
- b. Column – Structure Column should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- c. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- e. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

C. Maximum Ground clearance (2000MM – 3000 MM)

- a. Base Plate – Base plate thickness of the Structure should be minimum 8 MM for this segment.
- b. Column – Structure Column thickness should be minimum 2.6MM in

square hollow section (minimum 50x50) or rectangular hollow section (minimum 60x40) or 3MM in C-Channel section.

- c. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- d. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- e. Front/back bracing – The section for bracing part should be minimum 3MM thickness.
- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

D. Super elevated structure (More than 3000 MM)

Base structure

- a. Base Plate – Base plate thickness of the Structure should be 10MM for this segment.
- b. Column – Structure Column minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- c. Rafter - Structure Rafter minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- d. Cross bracing – Bracing for the connection of rafter and column should be of minimum thickness of 4mm L-angle with the help of minimum bolt diameter of 10mm.

Upper structure of super elevated structure –

- a. Base Plate – Base plate thickness of the Structure should be minimum 5MM for this segment.
- b. Column – Structure Column should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- c. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
- e. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

If distance between two legs in X-Direction is more than 3M then sag angle/Bar should be provided for purlin to avoid deflection failure. The sag angle should be minimum 2MM thick, and bar should be minimum 12Dia.

Degree - The Module alignment and tilt angle shall be calculated to provide the maximum annual energy output. This shall be decided on the location of array installation.

Foundation – Foundation should be as per the roof condition; two types of the foundation can be done- either penetrating the roof or without penetrating the roof.

- a. If penetration on the roof is allowed (based on the client requirement) then minimum 12MM diameter anchor fasteners with minimum length 100MM can be use with proper chipping. The minimum RCC size should be 400x400x300 cubic mm. Material grade of foundation should be minimum M20.
- b. If penetration on roof is not allowed, then foundation can be done with the help of 'J Bolt' (refer IS 5624 for foundation hardware). Proper Netobond solution should be used to adhere the Foundation block with the RCC roof. Foundation J - bolt length should be minimum 12MM diameter and length should be minimum 300MM.

➤ **Material standards:**

- iv. Design of foundation for mounting the structure should be as per defined standards which clearly states the Load Bearing Capacity & other relevant parameters for foundation design (As per IS 6403 / 456 / 4091 / 875).
- v. Grade of raw material to be used for mounting the structures so that it complies the defined wind loading conditions (As per IS 875 - III) should be referred as follows (IS 2062 – for angles and channels, IS 1079 – for sheet, IS 1161 & 1239 for round pipes, IS 4923 for rectangular and square hollow section)
- vi. Test reports for the raw material should be as per IS 1852 / 808 / 2062 / 1079 / 811.
- vii. In process inspection report as per approved drawing & tolerance should be as per IS 7215.
- viii. For ascertaining proper welding of structure part following should be referred:
 - a. D.P. Test (Pin Hole / Crack) (IS 822)
 - b. Weld wire grade should be of grade (ER 70 S - 6)
- ix. For ascertaining hot dip galvanizing of fabricated structure following should be referred: -

- a. Min coating required should be as per IS 4759 & EN 1461.
- b. Testing of galvanized material
 - Pierce Test (IS 2633)
 - Mass of Zinc (IS 6745)
 - Adhesion Test (IS 2629)
 - CuSO₄ Test (IS 2633)
 - Superior High-Grade Zinc Ingot should be of 99.999% purity (IS 209)
(Preferably Hindustan Zinc Limited or Equivalent).
- x. Foundation Hardware – If using foundation bolt in foundation then it should be as per IS 5624.
- Design Validation- The Structure design and drawing should be duly verified by a licensed Structural designer before installation for all types of structure arrangements including the extension made, as per specification.

4. Metering

- The Rooftop Solar Plant system shall consist of the following energy meters:
 - i. **Bi-Directional meter:** To record import and export units
 - ii. **Solar meter:** To keep record for total generation of the plant.
- The installation of meters including CTs & PTs, wherever applicable, shall be carried out by the firm as per the terms, conditions and procedures laid down by the concerned SERC/DISCOMs.

5. Array Junction Boxes:

The junction boxes are to be provided in the PV array for termination of connecting cables. The Junction Boxes (JBs) shall be made of GRP/FRP/Powder Coated aluminum /cast aluminum 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. Suitable markings shall be provided on the bus-bars for easy identification and cable ferrules will be fitted at the cable termination points for identification.

Copper bus bars/terminal blocks housed in the junction box with suitable termination threads Conforming to IP 65 or better standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry, Single /double compression cable glands should be provided.

Polyamide glands and MC4 Connectors may also be provided. The rating of the junction box shall be suitable with adequate safety factor to interconnect the Solar PV array.

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.

Junction boxes shall be mounted on the MMS such that they are easily accessible and are protected from direct sunlight and harsh weather.

5 DC Distribution Box (DCDB):

May not be required for small plants, if suitable arrangement is available in the inverter.

DC Distribution Box is to be provided to receive the DC output from the PV array field.

DCDBs shall be dust & vermin proof conform having IP 65 or better protection, as per site conditions.

The bus bars are made of EC grade copper of required size. Suitable capacity MCBs/ MCCB shall be provided for controlling the DC power output to the inverter along with necessary surge arrestors. MCB shall be used for currents up to 63 Amperes, and MCCB shall be used for currents greater than 63 Amperes.

6 AC Distribution Box (ACDB):

AC Distribution Panel Board (DPB) shall control the AC power from inverter, and should have necessary surge arrestors, if required. There is interconnection from ACDB to mains at LT Bus bar while in grid tied mode.

All switches and the circuit breakers, connectors should conform to IEC 60947:2019, part I, II and III/ IS 60947 part I, II and III.

The isolators, cabling work should be undertaken as part of the project.

All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air -insulated, cubical type suitable for operation on 1- ϕ /3- ϕ , 415 or 230 volts, 50 Hz (or voltage levels as per CEA/State regulations).

The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.

All indoor panels will have protection of IP 54 or better, as per site conditions. All outdoor panels will have protection of IP 65 or better, as per

site conditions.

Should conform to Indian Electricity Act and CEA safety regulations (till last amendment).

All the 415 or 230 volts (or voltage levels as per CEA/State regulations) AC devices / equipment like bus support insulators, circuit breakers, SPDs, Voltage Transformers (VTs) etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.

- i. Variation in supply voltage: as per CEA/State regulations
- ii. Variation in supply frequency: as per CEA/State regulations

The inverter output shall have the necessary rated AC surge arrestors, if required and MCB/ MCCB. RCCB shall be used for successful operation of the PV system, if inverter does not have required earth fault/residual current protection.

7 Protections

The system should be provided with all necessary protections like earthing, Lightning, and Surge Protection, as described below:

i. Earthing Protection

1. The earthing shall be done in accordance with latest Standards.
2. Each array structure of the PV yard, Low Tension (LT) power system, earthing grid for switchyard, all electrical equipment, inverter, all junction boxes, etc. shall be grounded properly as per IS 3043-2018.
3. All metal casing/ shielding of the plant shall be thoroughly grounded in

accordance with CEA Safety Regulation 2010. In addition, the lightning arrester/masts should also be earthed inside the array field.

4. Earth resistance should be as low as possible and shall never be higher than 5 ohms.
5. For 10 KW and above systems, separate three earth pits shall be provided for individual three earthings viz.: DC side earthing, AC side Earthing and Lightning arrestor earthing.

Lightning Protection

- i. The SPV power plants shall be provided with lightning & over voltage protection, if required. The main aim in this protection shall be to reduce the overvoltage 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.
- ii. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors (LAs). Lightning protection should be provided as per NFC17-102:2011/IEC 62305 standard.
- iii. The protection against induced high-voltages shall be provided by the use of Metal Oxide Varistors (MOVs)/Franklin Rod type LA/Early streamer type LA.
- iv. The current carrying cable from lightning arrestor to the earth pit should have sufficient current carrying capacity according to IEC 62305. According to standard, the minimum requirement for a lightning protection system designed for class of LPS III is a 6 mm² copper/ 16 mm² aluminum or GI strip bearing size 25*3 mm thick). Separate pipe for running earth wires of Lightning Arrestor shall be used.

Surge Protection

- i. Internal surge protection, wherever required, shall be provided.

- ii. It will consist of three SPD type-II/MOV type surge arrestors connected from +ve and –ve terminals to earth.

8 CABLES

All cables should conform to latest edition of IEC/equivalent BIS Standards along with IEC 60227/IS 694, IEC 60502/IS 1554 standards.

Cables should be flexible and should have good resistance to heat, cold, water, oil, abrasion etc.

Armoured cable should be used and overall PVC type ‘A’ pressure extruded insulation or XLPE insulation should be there for UV protection.

Cables should have Multi Strand, annealed high conductivity copper conductor on DC side and copper/FRLS type Aluminium conductor on AC side. For DC cabling, multi-core cables shall not be used.

Cables should have operating temperature range of -10°C to +80°C and voltage rating of 660/1000 V.

Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop less than 2% (DC Cable losses).

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%.

The electric cables for DC systems for rated voltage of 1500 V shall conform to BIS 17293:2020.

All cable/wires are to be routed in a RPVC pipe/ GI cable tray and suitably tagged and marked with proper manner by good quality ferule or by other means so that the cable is easily identified.

All cable trays including covers to be provided.

Thermo-plastic clamps to be used to clamp the cables and conduits, at intervals not exceeding 50 cm.

Size of neutral wire shall be equal to the size of phase wires, in a three phase system.

The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e. 25 years.

9 DRAWINGS& MANUALS:

Operation & Maintenance manual/user manual, Engineering and Electrical Drawings shall be supplied along with the power plant.

The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc.

The Manual should also include all the Dos & Don'ts of Power Plant along with Graphical Representation with indication of proper methodology for cleaning, Operation and Maintenance etc.

Step by step maintenance and troubleshooting procedures shall also be given in the manuals.

Firm should also educate the consumers during their AMC period.

10 Miscellaneous:

Connectivity: The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the SERC regulation for Grid connectivity and norms of DISCOM and amended from time to time.

Safety measures: Electrical safety of the installation(s) including connectivity with the grid must be taken into account and all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA Safety Regulation 2010 etc. must be followed.

Shadow analysis: The shadow analysis report with the instrument such as SolarPathfinder or professional shadow analysis software of each site should be provided and the consumer should be educated to install the system only in shadow free space. Lower performance of the system due to shadow effect shall be liable for penalty for lower performance.

Fire fighting system - Portable fire extinguishers/sand buckets shall be provided wherever required as per norms.

Quality Certification, Standards and Testing for Grid-connected Rooftop Solar Plants

Quality certification and standards for grid-connected rooftop solar PV systems are essential for the successful mass-scale implementation of this technology. It is also imperative to put in place an efficient and rigorous monitoring mechanism, adherence to these standards. Hence, all components of grid-connected rooftop solar PV system/ plant must conform to the relevant standards and certifications given below:

| Solar PV Modules/Panels | |
|------------------------------------|--|
| IEC 61215/ IS 14286 | Design Qualification and Type Approval for Crystalline Silicon Terrestrial Photovoltaic (PV) Modules |
| IEC 61701 | Salt Mist Corrosion Testing of Photovoltaic (PV) Modules |
| IEC 61853- Part 1/IS 16170: Part 1 | Photovoltaic (PV) module performance testing and energy rating: Irradiance and temperature performance measurements, and power rating |
| IEC 62716 | Photovoltaic (PV) Modules – Ammonia (NH ₃) Corrosion Testing (As per the site condition like dairies, toilets) |
| IEC 61730-1,2 | Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, Part 2: Requirements for Testing |
| IEC 62804 | Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation. IEC TS 62804-1: Part 1: Crystalline silicon (mandatory for applications where the system voltage is > 600 VDC and advisory for installations where the system voltage is < 600 VDC) |
| IEC 62759-1 | Photovoltaic (PV) modules – Transportation testing, Part 1: Transportation and shipping of module package units |
| Solar PV Inverters | |

| | |
|--|---|
| IEC 62109-1, IEC 62109-2 | <p>Safety of power converters for use in photovoltaic powersystems –</p> <p>Part 1: General requirements, and Safety of power converters for use in photovoltaic power systems</p> <p>Part 2: Particular requirements for inverters. Safety compliance (Protection degree IP 65 for outdoor mounting, IP 54 for indoor mounting)</p> |
| IEC/IS 61683 (as applicable) | <p>Photovoltaic Systems – Power conditioners: Procedure for</p> <p>Measuring Efficiency (10%, 25%, 50%, 75% & 90-100% Loading Conditions)</p> |
| BS EN 50530 (as applicable) | <p>Overall efficiency of grid-connected photovoltaic inverters:</p> <p>This European Standard provides a procedure for the measurement of the accuracy of the maximum power point tracking (MPPT) of inverters, which are used in grid-connected photovoltaic systems. In that case the inverter energizes a low voltage grid of stable AC voltage and constant frequency. Both the static and dynamic MPPT efficiency is considered.</p> |
| IEC 62116/ UL 1741/ IEEE 1547 (as applicable) | <p>Utility-interconnected Photovoltaic Inverters - Test</p> <p>Procedure of Islanding Prevention Measures</p> |
| IEC 60255-27 | <p>Measuring relays and protection equipment – Part 27:</p> <p>Product safety requirements</p> |
| IEC 60068-2 (1, 2, 14, 27, 30 & 64) | <p>Environmental Testing of PV System – Power conditioners and Inverters</p> <p>a) IEC 60068-2-1: Environmental testing - Part 2-1: Tests – Test</p> |

| | |
|---|---|
| | <p>A: Cold</p> <p>b) IEC 60068-2-2: Environmental testing - Part 2-2: Tests - Test B: Dry heat</p> <p>c) IEC 60068-2-14: Environmental testing - Part 2-14: Tests - Test N: Change of temperature</p> <p>d) IEC 60068-2-27: Environmental testing - Part 2-27: Tests Test Ea and guidance: Shock</p> <p>e) IEC 60068-2-30: Environmental testing - Part 2-30: Tests -Test Db: Damp heat, cyclic (12 h + 12 h cycle)</p> <p>f) IEC 60068-2-64: Environmental testing - Part 2-64: Tests -Test Fh: Vibration, broadband random and guidance</p> |
| IEC 61000 – 2,3,5 (as applicable) | Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC) testing of PV Inverters |
| Fuse | |
| IS/IEC 60947 (Part 1, 2 & 3), EN 50521 | <p>General safety requirements for connectors, switches, circuitbreakers (AC/DC):</p> <p>a) Low-voltage Switchgear and Control-gear, Part 1: General rules</p> <p>b) Low-Voltage Switchgear and Control-gear, Part 2: CircuitBreakers</p> <p>c) Low-voltage switchgear and Control-gear, Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units</p> <p>d) EN 50521: Connectors for photovoltaic systems – Safetyrequirements and tests</p> |
| IEC 60269-6 | Low-voltage fuses - Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems |
| Surge Arrestors | |

| | |
|---|---|
| IEC 62305-4 | Lightening Protection Standard |
| IEC 60364-5-53/ IS 15086-5 (SPD) | Electrical installations of buildings - Part 5-53: Selection and erection of electrical equipment - Isolation, switching and control |
| IEC 61643- 11:2011 | Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods |
| Cables | |
| | |
| IEC 60227/IS 694, IEC 60502/IS 1554 (Part 1 & 2)/ IEC69947 | General test and measuring method for PVC (Polyvinyl chloride) insulated cables (for working voltages up to and including 1100 V, and UV resistant for outdoor installation) |
| BS EN 50618 | Electric cables for photovoltaic systems (BS EN 50618), mainly for DC Cables |
| Earthing /Lightning | |
| IEC 62561 Series (Chemical earthing) | IEC 62561-1: Lightning protection system components (LPSC) - Part 1: Requirements for connection components IEC 62561-2: Lightning protection system components (LPSC) -Part 2: Requirements for conductors and earth electrodes IEC 62561-7: Lightning protection system components (LPSC) - Part 7: Requirements for earthing enhancing compounds |
| <p>Note: Equivalent standards may be used for different system components of the plants. In case of clarification following agencies may be contacted.</p> <p>i. Ministry of New and Renewable Energy (Govt. of India)</p> <p>ii. National Institute of Solar Energy</p> <p>iii. The Energy & Resources Institute</p> | |

PROJECT REPORT FORMAT

1. Name of firm:
2. Tender no.
3. Project details (Site location & Address):
4. Brief about the Rooftop Solar Power Generation System:
5. Details of the beneficiary:
6. Specifications of the Components and Bill of Material/ Quantities:

| S. No. | Component | Specifications | Quantity | Make |
|--------|---------------------------------------|----------------|----------|------|
| A | Solar PV module | | | |
| A.1 | Aggregate Solar PV capacity (kWp) | | | |
| B | Grid Tie inverter (Type and Capacity) | | | |
| B.1 | Aggregate Inverter capacity (kVA) | | | |
| C | Module mounting structure | | | |
| D | Array Junction Box | | | |
| E | AC Distribution Board | | | |
| F | Cable (All type) | | | |
| G | Earthing Kit (maintenance free) | | | |
| H | Meters | | | |
| I | Online monitoring system | | | |
| J | Any other component | | | |
| K | Transformer | | | |

7. Unit cost of solar power generation:
8. Expected output/annum:
9. Respective drawings for layout, electrical wiring connections, earthing, components etc.
10. Connectivity details with grid and metering arrangement (with sketch diagram)
11. Copy of electricity bill of the beneficiary and consumer number
12. Any other information.
13. Documentary proof regarding beneficiary type as per of the tender document.

Project Completion Report for Grid-Connected Rooftop Plant

| | | | |
|--|--|--------------------------------|--|
| Financial year * : | | | |
| Approval No. * : | | | |
| Proposal Title : | | | |
| Installed by agency : | | | |
| | | | |
| Title of the Project* : | | SPV Capacity (kWp)*: | |
| Category of the organization/ beneficiary*: | | Name of the contact person* : | |
| Address of contact person* : | | | |
| State* : | | District/City*: | |
| Mobile* : | | Email*: | |
| Aadhaar Card Number (For Residential) Copy to be attached. | | Latitude: | |
| | | Longitude: | |
| Other info | | | |
| Electricity Distribution Company Name : | | Sanction Load | |
| Electricity consumer account no.as per electricity bill : | | | |
| Technology Description & System Design /Specification | | | |
| (Compliance to BIS/ IEC Standards is mandatory – Attach Copies) | | | |
| 1. Solar PV Module: | | | |
| Power of each PV Module / Nos.(Wp)* / Make | | | |
| Cumulative Capacity of Modules(kWp): | | | |
| Solar cell technology : | | Tilt Angle of Modules: | |
| Module efficiency (inPercentage) : | | Azimuth | |
| Indigenous or imported | | RFID passed inside or outside: | |
| 2. Inverters: | | | |
| Type of inverter : | | | |

| | | | |
|--|--|--|------------------------|
| Power of each PCU/ Nos. of inverters (kVA)* / Make | | | |
| Capacity/Power of PCU/inverters (kVA) : | | Type of Charge Controller / MPPT | |
| Inverter efficiency (Full load) : | | | |
| (in percentage) | | | |
| Grid connectivity level phase | Single Phase/ Three Phase | Grid connectivity level Voltage | 230 V/ 415 V |
| 3. Mounting Structures | | | |
| Type | | | |
| Material | | Wind Speed Tolerance | |
| 4. Cables: | | | |
| DC Cable Make & Size | | Length: | |
| AC Cable Make & Size (Inverter to ACDB) | | Length: | |
| AC Cable Make & Size (ACDB to Electric Panel) | | Length: | |
| Conductor | Multi strand high conductivity Copper | Insulation/sheath | PVC /XLPE Insulated |
| 5. JUNCTION BOX & DISTRIBUTION BOARDS | | | |
| Type | weatherproof, dust & vermin proof | Nos.: | |
| Make | | | |
| 6. EARTHING & LIGHTNING PROTECTION | | | |
| EQUIPMENT EARTHING | | | |
| AC (Nos.) | | Earth Resistance | |
| DC (Nos.) | | Earth Resistance | |
| Lighting Arrestors (LA) | | | |
| Type | | | |
| LA (Nos.) | | Earth Resistance | |

(Signature of Firm)
With Stamp

To Annex: Copy of System test & Earth test reports

Commissioning Test ReportkW Inverter

(DC) Side: Nos. of Inverter Nos.

| Inverter S. No. | Capacity | String 1: Voc | String 2: Voc | Remark |
|-----------------|----------|---------------|---------------|--------|
| | | | | |
| | | | | |

Inverter Testing (AC) Side – Single / Three Phase

| Inverter S.No. | Capacity | R – Y/ P-N | Y – B | B - R | R – N | Y – N | B - N | Remark |
|----------------|----------|---------------|-------|-------|-------|-------|-------|--------|
| | | | | | | | | |
| | | | | | | | | |

ACDB & Meter Panel Testing – Single / Three Phase

| | R – Y/ P-N | Y – B | B - R | R – N | Y – N | B - N | Remark |
|-----------------|---------------|-------|-------|-------|-------|-------|--------|
| ACDB I/C (V) | | | | | | | |
| ACDB O/G (V) | | | | | | | |
| Meter Panel I/C | | | | | | | |
| Meter Panel O/G | | | | | | | |

Earthing Pit Details: Nos. of Earth Pit ... Nos.

| | Earthing AC | Earthing DC | Earthing LA | Remark |
|------------------------|-------------|-------------|-------------|--------|
| Earth Test Value (Ohm) | | | | |

Sign

Site Engineer

Joint Inspection Report

It is to certify that a Grid Connected Solar PV Power Plant has been installed with following details:

1. Name of the beneficiary: _____
2. Address of installation with pin code: _____
3. Electricity consumer number: _____
4. Solar PV module capacity (DC): _____ kWp
5. Inverter capacity (AC) (Nominal output power): _____ kW
6. Date of installation: _____
7. Date of commissioning (after installation of net-meter): _
8. Date of Joint inspection: _____
9. Metering arrangement: _____ (Net meter/Gross meter/Netbilling)

The above system is as per BIS/MNRE specifications and has been checked for its performance on _____ and it is working satisfactorily.

| | DISCOM | FIRM | CONSUMER |
|-------------|---------------|-------------|-----------------|
| Name | _____ | _____ | _____ |
| Designation | _____ | _____ | _____ |
| Date | _____ | _____ | _____ |
| Sign | _____ | _____ | _____ |
| Seal | _____ | _____ | _____ |

It is to certify that the above system has been purchased with following details:

| | FIRM | CONSUMER |
|-------------|-------------|-----------------|
| Name | _____ | _____ |
| Designation | _____ | _____ |
| Date | _____ | _____ |
| Sign | _____ | _____ |
| Seal | _____ | _____ |

Reference Bidders' Declaration Format associated with Implementation of ALMM Order

(on the letter head of the bidder)

Declaration

To whomsoever this may concern

Reference: (TENDER DOUCMENT no. and description)

1. We hereby declare that we are fully aware of the binding provisions of the ALMM order and the Lists there under, while quoting the rate in the tender no. HIMURJA (F- 7) / GCRTS Plant / 2024-25 floated by Project Manager (Solar).
2. We understand that the List – I (Solar PV Modules) of ALMM Order, Annexure – I of the O M, issued by MNRE on 10th March 2021 will be updated by MNRE from time to time. We also understand that the Modules to be procured for this project, shall be from the List – I of the ALMM order applicable on the date of invoicing of such modules.
3. We further understand and accept that we shall be liable for penal action, including but not limited to blacklisting and invocation of Performance Bank Guarantee, if we are found not complying with the provisions of ALMM Order, including those mentioned above.

Name:

Designation:

Organization:

Date:

(Signature and Stamp)

General Particulars of the bidder

| S. No. | Particulars | Details |
|--------|---|---------|
| 1. | Name of the Company | |
| 2. | Registered Office Address | |
| 3. | E-mail ID | |
| 4. | Web site | |
| 5. | Authorized Contact Person(s) with name, designation Address and MobilePhone No., E- mail address/ Fax No. to whom all references shall be made | |
| 6. | Year of Incorporation | |
| 7. | Have the bidder/Company ever been debarred By any Govt. Dept. / Undertaking for undertaking any work | |
| 8. | Reference of any document information attached by the Bidder other than specified in the TENDER DOUCMENT. | |
| 9. | Details of the Ownership structure (Details of persons owning 10% or more of the Total Paid up equity of the Bidding Company in the Format as below | Yes/No |
| 10. | Whether company is MSME as on the bidding date | Yes/No |
| 11. | Whether the Company has valid GST Registration Number (Enclose a Copy) | |
| 12. | PAN number (enclosed a copy) | |
| 13. | Bank Account Details | |

Please strike-off whichever is not applicable.

Signature:

Name:

Designation with Seal:

Declaration by the Bidder

I/We_____ (herein after referred to as the bidder) being desirous of bidding for the design, manufacture, supply, erection, testing, installation and commissioning of Grid connected Rooftop Solar plants above 100 kW under Net Billing scheme in different parts in H.P including warranty period of 5 years as shown in scope of bid specification. We have fully understood the nature of the work and carefully noted all the terms and conditions, specifications etc. as mentioned in the bid documents, hereby declare that:-

1. The bidder is fully aware of all the requirements of the bid documents and agrees with all the provisions of the bid documents.
2. The bidder is capable of executing and completing the work as required in the bid.
3. The bidder accepts all risks and responsibilities directly or indirectly connected with the performance of the bid.
4. The bidder is financially solvent and sound to execute the bid.
5. The bidder is sufficiently experienced and competent to perform the contract to the satisfaction of HIMURJA.
6. The information and statements submitted with the bid are true.
7. The bidder has not been debarred from similar type of work by any Govt Dept./Agency/Organization.
8. This offer will remain valid for acceptance for 12 (Twelve) months from the date of finalization of the bid and can be extended further.
9. The bidder gives the assurance to execute the work as per the specifications, terms and conditions and in exact configuration of the sample submitted on award of the work.

(Signature of
Bidder)with
designation

Financial Bid

Name of Work: To determine the lowest rate/tariff for the Design, Engineering, Supply, Erection, Testing and Commissioning including warranty, operation & maintenance for 25 years for Grid Connected Roof Top Solar Plants above 100 kW capacity for Government Buildings at different locations in Himachal Pradesh under RESCO Model as per the technical specifications. We give our unconditional financial rates including all taxes and duties in response of this tender Document issued by HIMURJA. The rates are FOR destination at the sites of the beneficiaries including transportation and insurance etc for a period of 25 years.

| Cluster | Particulars of Work | Tariff per kilowatt-hr/ Rs ____/kWh |
|-------------|---|--|
| Cluster I | Setting up of Grid-Connected Rooftop Solar plants in 88 Govt buildings with a cumulative capacity of 5400 kW, including operation & maintenance for 25 years under RESCO Mode. | |
| Cluster II | Setting up of Grid-Connected Rooftop Solar plants in 130 Govt buildings with a cumulative capacity of 5820 kW, including operation & maintenance for 25 years under RESCO Mode. | |
| Cluster III | Setting up of Grid-Connected Rooftop Solar plants in 158 Govt buildings with a cumulative capacity of 5248 kW, including operation & maintenance for 25 years under RESCO Mode. | |

(Note: The above rates are inclusive of all the taxes and duties.)

Signature

Name

Designation with Seal

Format of Bank Guarantee for EMD

Whereas(hereinafter called “the Bidder”) having a registered office at has submitted its bid dated (date of submission of bid) for the supply of (name and/or description of the goods) (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that WE (name of bank) of (name of country), having our registered office at (address of bank) (hereinafter called “the Bank”), are bound unto (name of Purchaser) (hereinafter called “the Purchaser”) in the sum of for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents.
Sealed with the Common Seal of the said Bank this day of _____

THE CONDITIONS of this obligation are:

1. If the Bidder:

(a) withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or

(b) does not accept the correction of errors in accordance with the Instructions to Bidders; or

2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:

(a) fails or refuses to execute the Contract Form if required; or

(b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to upto and including (date) and any demand in respect thereof should reach the Bank not later than the above date.

Quote "Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs.
2. This Bank Guarantee shall be valid upto
3. We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only &only if we receive a written claim or demand on or before..... .

Sealed with the Common Seal of the Said Bank this.....day of..... 2025.....

(Signature of the Bank)

Annexure D

The following is the purchase value of the system over a period of 25 years.

This may be applicable under the following conditions:

1. The Power Purchaser terminates the PPA before the 25 years PPA Tenure.
2. The Power Purchaser wishes to own the Project before the Tenure of the PPA.
3. The Solar Project is relocated or shifted owing to demolition of the building, damage to the building, change of city plans or any other reason.

The Purchase Price is determined on a year-on year depreciation basis as follows:-

| Purchase price of the-----kW GCRTS Plant @ Rs -----kW | |
|---|--------------------|
| Year | Salvage value (Rs) |
| 1 st Year | 100% |
| 2 nd Year | 96% |
| 3 rd Year | 92% |
| 4 th Year | 88% |
| 5 th Year | 84% |
| 6 th Year | 80% |
| 7 th Year | 76% |
| 8 th Year | 72% |
| 9 th Year | 68% |
| 10 th Year | 64% |
| 11 th Year | 60% |
| 12 th Year | 56% |
| 13 th Year | 52% |
| 14 th Year | 48% |
| 15 th Year | 44% |
| 16 th Year | 40% |
| 17 th Year | 36% |
| 18 th Year | 32% |
| 19 th Year | 28% |
| 20 th Year | 24% |
| 21 st Year | 20% |
| 22 nd Year | 16% |
| 23 rd Year | 12% |
| 24 th Year | 8% |
| 25 th Year | 4% |

DRAFT POWER PURCHASE AGREEMENT
FOR
DESIGN, MANUFACTURER, SUPPLY, ERECTION, TESTING
AND COMMISSIONING INCLUDING WARRANTY,
OPERATION & MAINTENANCE OF KWP AND ROOFTOP SOLAR SYSTEM
AT

BETWEEN

ROOFTOP OWNER

AND

A. The Power Producer has come to be one of the successful bidder in the tender invited by HIMURJA (H.P. Government Energy Development Agency for "Design, Manufacture, Supply, Erection, Testing and Commissioning including Warranty, Operation & Maintenance of 100 kW and above Grid connected Rooftop Solar Plant at (building name)" (Project) and as per Technical Specification & other details of tender

no. _____ dated _____. The present agreement is an inter se agreement between both the parties, who are free to settle their terms themselves.

- B. The Power Producer is engaged in the business of installing and operating power grid connected rooftop power plants.
- C. The Power Producer has agreed to install and operate a Grid connected rooftop power plant of _____kWp capacity at the premises after due inspection of the premises as defined hereinafter and supply the entire Solar Power of the plant to Purchaser on the terms and conditions contained in this Agreement.
- D. The Purchaser has agreed to purchase the entire Solar Power of the Plant on the terms and conditions contained in this Agreement.

NOW THEREFORE in consideration of the mutual promises, conditions and covenants set forth herein, the Parties hereby agree as below:

1. Definitions and Interpretation

1.1 Definitions

In addition to other capitalized terms specifically defined elsewhere in the Agreement or unless the context otherwise requires, the following words and phrases shall be defined as follows:

- (i) "Actual Monthly Production" means the amount of energy recorded by the Main Metering System during each calendar month of the Term,
- (ii) "Affiliate" means with respect to any specified Person, any other Person directly or indirectly controlling, controlled by or under common control with such specified Person)
- (iii) "Agreement" means this Power Purchase Agreement executed hereof, including the schedules, amendments, modifications and supplements made in writing by the Parties from time to time.
- (iv) "Applicable Law" means, with respect to any Person, any constitutional provision, law, statute, rule, regulation, ordinance, treaty, order, decree, judgment, decision, certificate, holding, injunction, registration, license,

franchise, permit, authorization, guideline, Governmental Approval, consent or requirement or any Governmental Authority in India having jurisdiction over such Person or its property, enforceable by law or in equity, including the interpretation and administration thereof by such Governmental Authority.

(v) "Business Day" means any day other than Sunday or any other day on which banks in Himachal Pradesh are required or authorized by Applicable Law to be closed for business:

(6) "Commercial Operation Date" has the meaning as defined at Serial No. M.

(7) "Consents, Clearances and Permits" shall mean all authorization, 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:

(8) "Deemed Generation" has the meaning set forth in Section 5.3(c).

(9) "Delivery Point" shall be the single point, at a location mutually agreed by the Parties, in line with applicable regulation/rules where Solar Power is delivered by the Power Producer from the System to the Purchaser.

(10) "Dispute" has the meaning set forth in Section 17.7(b);

(11) "Disruption Period" has the meaning set forth in Section 5.3(c)

(12) "Distribution Utility" means the local 'electric distribution owner and operator providing electric distribution and interconnection services to Purchaser at the Premises;

(13) "Due Date" has the meaning set forth in Section 7.4;

(14) "Effective Date" has the meaning set forth in Section 2

(15) "Estimated Remaining Payments" means as of any date, the estimated remaining Solar Power Payments to be made through the end of the applicable Term, as reasonably determined by the Power Producer in accordance with Section 7.1

(16) "Expiration Date" means the date on which the Agreement terminates by reason of expiration of the Term.

(17) "Force Majeure Event" has the meaning set forth in Section 11.1

(18) "Governmental Approval" means any approval, consent, franchise, permit, certificate, resolution, concession, license or authorization issued by or on behalf of any applicable Governmental Authority for the purpose of setting up of the Project and/or for sale and purchase of Solar Power of the plant pursuant to the Agreement.

(19) "Governmental Authority" means any central; state, regional, district, town, city, or municipal government, whether domestic or foreign, or any department, agency, bureau, or other administrative, regulatory or judicial body of any such government.

(20) "Indemnified Persons" means the Purchaser Indemnified Parties or the Power Producer-indemnified Parties, as the context requires.

(21) "Insolvency Event" means with respect to a Party, that either

(22) Such party has (A) applied for or consented to the appointment of, or the taking of possession by, a receiver, custodian, trustee, administrator, liquidator on the likes of itself or of all or a substantial part of its assets or business;

(B) been unable to pay its debts as such-debts become due;

(C) made a general assignment for the benefit of its creditors,

(D) commenced a voluntary proceeding under any insolvency or bankruptcy law;

(E) filed a petition seeking to take advantage of any other law relating to the bankruptcy, insolvency, reorganization, winding up, or composition or readjustment of debts; or

(F) taken any corporate or other action for the purpose of effecting any of the foregoing or

(G) It is clarified that a dissolution or liquidation will not be an Insolvency Event if such dissolution or liquidation is for the purpose of a merger, consolidation or reorganization, and the resulting company retains credit worthiness similar to the dissolved or liquidated entity and expressly assumes all obligations of the dissolved and liquidated entity under this Agreement and is in a position to the perform them.

(23) "Installation Work "means the construction and installation of the System and the Start-up, testing and acceptance (but not the operation and maintenance) thereof; all performed by or for the Power Producer at the Premises.

(24 "Invoice Date has the meaning set forth in Section 7.2.

(25) LC means Letter of Credit issued by any scheduled bank notified by Reserve bank of India. (aa) "Losses" means all losses, liabilities, claims, demands, suits, causes of

action, judgments, awards, damages, cleanup and remedial obligations, interest, fines, fees, penalties, costs and expenses (including all attorneys' fees and other costs and expenses incurred in defending any such claims or other matters or in asserting or enforcing and indemnity' obligation)

(26) "Main Metering System" means all meter(s) and metering devices owned by the Power Producer and installed at the Delivery point for measuring and recorded the delivery and receipt of energy.

(27) "Metering Date" means the first Business Day of each calendar month subsequent to the month in which the Solar Power is generated by the Power Producer. 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.

(28) "Party" or Parties" has the meaning set forth in the preamble to this Agreement.

(29) "Performance Ratio" means the ratio of plant output versus installed plant capacity at any instance with respect to the radiation measured.

$$PR = \frac{\text{Measured output in kW} / \text{Installed plant capacity in kW} \times 1000 \text{ W/m}^2}{\text{Measured radiation intensity in W/ m}^2}$$

(30) "Person" means an individual, partnership, corporation, limited Liability Company, business trust, Joint Stock Company, trust, unincorporated association, joint venture, firm, or other entity, or a Governmental Authority.

(31) "Power Producer Default" has the meaning set forth in Section 12.1 (a).

(32) "Power Producer Indemnified has the meaning set forth in Section 16.2.

(33) "Premises" means the premises described in Schedule 1 to this Agreement. For the avoidance of doubt, the Premises include, the entirety of any and underlying real property located at the address described in Schedule 1 to this Agreement.

(34) "Purchase Date" means the date on which title to the System transfers to the Purchaser pursuant to the Purchaser exercising its purchase option under Section 3.2.

(35) "Purchase Price" means the fee payable Purchaser to the Power Producer under the circumstances described in Section 3.2.

(36) "Purchaser Default" has the meaning set forth in Section 12.2 (a).

(37) "Representative" has the meaning set forth in Section 15.1.

(38) "Scheduled Complete Date" has the meaning set forth in Section 4.1(g)

(39) "Selectee" means, a new company (i) proposed by the Lenders read with Schedule III hereof and approved by the Purchaser (ii) or proposed by the Purchaser in accordance with Schedule III here of and approved by the Lenders, for substituting the Power Producer for the residual period of the Agreement by amendment of the Agreement or

by execution of a fresh power purchase agreement in-accordance with the terms and conditions contained in the said Schedule.

(40) "Solar Power" means the supply of electrical energy output from the System.

(41) "Solar Power Payment" has the meaning set forth in Section 7.1.

(42) "System" includes the integrated assembly of photovoltaic panels, mounting, assemblies, inverters, converters, metering, lighting fixtures, transformers, ballasts, disconnects, combiners, switches, wiring devices and wiring, and all other material comprising the Installation work.

(43) "System Operations" means the Power Producer's operation, maintenance and repair of the System performed in accordance the requirement herein.

(44) "Tariff" means the price per kWh set forth in Schedule II hereto.

(45) "Term" has the meaning set forth in Section 3.1:

1.2 interpretation

(a) Unless otherwise stated, all references made, in this Agreement to "Sections", "Clauses" and "Schedules" shall refer respectively to Sections, clauses and Schedules of this Agreement. The Schedules to this Agreement form an integral part of this Agreement and shall have effect as though they were expressly set out in the body of this Agreement.

(b) In the Agreement, unless the context otherwise requires (i) words imparting singular connotation shall include plural and vice versa:(ii) the words "include", "includes", and "including" mean include, includes and including "without limitation" and (iii) the words "hereof", "hereto", "herein" and "hereunder" and words of similar import refer to the Agreement as a whole and not to any particular provision of the Agreement.

2. Effective Date

This Agreement shall be effective on the day that falls one Business Day after the date of signing of this Agreement.

3. Terms and Termination

3.1 Term

The term of the Agreement shall commence on the Effective Date and shall continue for twenty five (25) years from the Commercial Operations Date (the "Term"), unless and until terminated earlier pursuant to the provisions of the Agreement. After the Term, the ownership of the System shall be transferred to the Purchaser free of cost.

3.2 Purchase Option/ Purchase Obligation

So long as a Purchaser default shall not have occurred and be continuing, Purchaser has the option to purchase the System by paying the Power Producer the Purchase price as per Schedule III to this Agreement. To exercise its purchase option, the Purchaser shall not less than Ninety (90) days prior to the proposed Purchase Date, provide written notice to the Power Producer of

Purchaser's intent to exercise its option to purchase the System on such purchase date: In the event Purchaser confirms its intention to exercise the purchase option in writing to the Power Producer, (i) Purchaser shall pay the applicable purchase price to the Power Producer on the Purchase Date, and such payment shall be made in accordance with any written instructions delivered to Purchaser by the Power Producer for payments under the Agreement, and (ii) the Parties shall promptly execute all documents necessary to (A) cause title to the System to pass to Purchaser on the Purchase Date, free and clear of all liens and (B) assign all vendor warranties for the System to Purchaser. Upon execution of the documents and payment of the applicable purchase price in each case as described in the preceding sentence, the Agreement shall terminate automatically and the Purchaser shall become the owner of the System. Upon such termination, the Power Producer shall 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.

3.3 Conditions of the Agreement prior to installation

In the event that any of the following events or circumstances occur prior to the Commercial Operation Date, the Power Producer may terminate the Agreement, in which case neither Party shall have any liability to the other except for any such liabilities that may have accrued prior to such termination.

(a) There has been a material adverse change in the rights of Purchaser to occupy the Premises or the Power Producer to install the System at the Premises.

(b) The Power Producer has determined that there are easements, Capacity Cost Recovery (CCRs) or other liens or encumbrances that would materially impair or prevent the installation, operation, maintenance or removal of the System. If any dispute arises before

commercial operation date, the same shall be resolved under clause, 17.7(c)

4 Construction, Installation, Testing and Commissioning of the System.

4.1 Installation Work

- a) The Power Producer will cause the Project to be designed, manufactured, supplied, engineered, erected, tested and commissioned, operated & maintained and constructed substantially in accordance with RFS and the sanction letter issued by HIMURJA. The Power Producer shall provide to the Purchaser a bill of materials listing the major equipment constituting the System. Such bill of materials shall be provided within 30 days of the Commercial Operation Date.
- b) The Power Producer shall have access as reasonably permitted by the Purchaser to perform the Installation Work at the Premises in a manner that minimizes inconvenience to and interference with the use of the premises to the extent commercially practical.
- c) It is agreed between the Parties that the Power Producer shall commission the System with a capacity of _____ kWp. Power Producer may construct a System of smaller size if it receives only part approval of government or for any other material commercial reason, as mutually agreed between the Parties in writing. In the event a System of smaller capacity is eventually agreed to be installed, the clauses pertaining to Purchase Price as set out under this Agreement shall be adjusted proportionately as per mutual agreement between the Parties in writing.
- d) The Power Producer shall provide and lay the dedicated electrical cables for transmission of Solar Power from the System upto the Delivery Point. Transmission or distribution of Solar Power beyond this point will be the responsibility of the Purchaser. The Delivery Point shall be where the Main Metering System is located.
- e) Unless otherwise agreed between the Parties, the Power Producer shall not do
 - (i) chipping of Rooftop/Ground Mounted; or
 - (ii) water proofing of Rooftop/Ground Mounted be disturbed, or
 - (iii) carry out any other modification of the Premises without the written consent of the Purchaser.
- f) The Power Producer shall maintain general cleanliness of area around the Project during construction and operation period of the Project. In case any

damages is caused to the equipment/ facilities owned by the Purchaser due to the Power Producer, the same shall be made good / rectified by the Power Producer at their cost.

g) The Power Producer shall, within fifteen (15) days of the Effective Date, submit to the Purchaser shop drawings of the Project for approval ("Shop Drawings"). The drawings will have to be approved from the Power Purchaser within 15 days from the submission of the drawings. If the Purchaser has any objection/recommendation in the Shop Drawings, he shall communicate the same to Power Producer within a period of 15 days of the date of submission of the Shop Drawings. Any delay will extend the Effective Date and such approval shall not be unreasonably withheld.

h) Subject to any punch-list items which shall be agreed by the. Purchaser as not being material to completion of the Project, the Power Producer agrees that it shall achieve the completion of the Project/Commissioning of the Project within months from the Effective Date ("Scheduled Completion Date"). Any delays on account of the Purchaser that may cause hindrance or delay in execution of the Project shall not be included in the set period of months. Purchaser shall ensure that sufficient load is available at the Delivery Point to ensure synchronization and drawl of power from System.

i) If the Power Producer is unable to commence supply of Solar Power to the Purchaser by the Scheduled Completion Date, other than for the reasons specified in Article 11 and 12.2 (Force Majeure or Purchaser Default), the Power Producer or its contractor shall pay to HIMURJA genuine pre-estimated liquidate damages for the delay in such commencement of supply of Solar Power as per the clause of the tender appended as Schedule to this Agreement.

j) The Purchaser shall ensure that all arrangements and infrastructure for receiving Solar Power beyond the Delivery Point are ready on or prior to the Commercial Operation Date and is maintained in accordance with applicable laws through the Term of the Agreement.

k) If company fails to commission the project within the scheduled time period as per TENDER DOUCMENT and PPA, the company shall be liable to pay the

penalty to beneficiary department @ Rs. 10,000/- per MW per day. Any request of bidder in delay, will only be accepted if the bidder gives its proper justification in writing and the competent authority accepts the same. If company doesn't pay penalty amount, then HIMURJA has every right to recover/ adjust any unpaid penalty from bidder by forfeiting performance security.

1) Power Producer shall fulfill all obligations undertaken by it under this Agreement.

4.2 Approvals and Permits

Each of the Parties shall assist the other Party in obtaining all necessary Government Approvals, third party approvals and permits including but not limited to those listed in Schedule V hereto and any waivers, approvals or releases required pursuant to any applicable guidelines.

4.3 System Acceptance Testing

(a) The Power Producer shall give 10 days advance notice to conduct the testing of the Project and shall conduct testing of the Project in the presence of Purchaser's designated representative.

(b) If the results of such testing indicate that the System is capable of generating electric energy (at full rated KWp) for 5 continuous hours using such instruments and meters as have been installed for such purposes, then the Power Producer shall send a Written notice to Purchaser to that effect, and the date of successful conducting such tests and injection of Power at Delivery Point shall be the "Commercial Operation Date".

5 System Operations

5.1 The Power Producer as Owner and Operator of the System will be legally and beneficially owned by the Power Producer and will be operated and maintained and, as necessary, repaired by the Power Producer at its sole cost and expense. Replacement of spare parts if any shall be responsibility of Power

Producer for the complete period of Agreement. If any repair or maintenance costs incurred by the Power Producer as a result of Purchaser's breach of its obligations, shall be reimbursed in full by Purchaser. Power Producer shall not be responsible for any work done by others on any part of the System/Project authorized by the Purchaser and not authorized in advance by the Power Producer in writing. Power Producer shall not be responsible for any loss, damage, cost or expense arising out of or resulting from improper operation or maintenance of the System by Purchaser or any one instructed to do such work by Purchaser. In the event of a problem with the System, as a result of the Purchaser actions for which Power Producer is not responsible as provided in this Agreement, Purchaser may choose and pay Power Producer for diagnosing and correcting the problem at Power Producer or Power Producer's contractors' standard rates. Standards rates and charges may be taken from market for comparisons by the power purchaser.

5.2 Metering

- (a) The Power producer shall install the Main Metering System with due certification for the measurement of electrical energy produced by the System.
- (b) The meter will be read by Power Producer's personnel on the Metering date. The authorized representative of the Purchaser shall 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 any month due to non availability of the Purchaser'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.
- (c) The Main Metering System at the Delivery Point and any additional meters required by Applicable Law shall be tested, maintained and owned by the Power Producer. In case of malfunctioning of main metering system at delivery point, deemed generation shall be paid upto 3 days only, and after that no payment shall be made till meter is replaced by new one or repaired.

- (d) The Power Producer shall connect the solar output to the existing system as per the requirements of Discom.
- (e) The Purchaser may, at its own discretion, install a check meter, at its cost, to verify the measurements of the Main Metering System.
- (f) The title to the Solar Power supplied by the Power Producer shall pass to the Purchaser at the Delivery Point.

5.3 System Disruptions

- (a) Availability of premises: Purchaser will provide full access of the site to Power Producer for installation, operation and maintenance of solar power plant during the period of Agreement. Power Purchaser will also provide restricted access of the Premises to Power Producer for operation and maintenance of solar power plant.
- (b) Purchaser will not provide/construct any structure within its Premises or around its premises which shades the solar panels effecting the generation of the energy during the Agreement period.
- (c) Roof Repair and other System Disruptions: In the event that (i) the Purchaser repairs the Premises' roof for any reason not directly related to damage, if any, caused by the System, and such repair required the partial or complete temporary disassembly or movement of the System, or (ii) any act or omission of Purchaser or Purchaser's employees, Affiliates, agents or subcontractors (collectively, a "Purchaser Act") result in a disruption or outage in System production, and such events attributable to Purchaser (except Force majeure), then, in either case, Purchaser shall (iii) pay the Power Producer for all work required by the Power Producer to disassemble or move the System and re-assemble the system after completion of the repair work and (ii) continue to make all payments for the Solar Power during such period of System disruption (the "Disruption Period"). For the purpose of calculating Solar Power Payments and lost revenue for such Disruption Period, Solar Power shall be deemed to have been produced at the average

rate. For the first year, the generation of a particular month (in which the deemed generation needs to be calculated will be used for calculating the average, 2nd year onwards, the generation data of the previous year, corresponding month will be referred. ("Deemed Generation"), Power producer shall inform about the 'disruption or outage in System production, for reasons attributable to purchaser in writing with date and time of such occurrences and Purchaser's liability shall start from the date of intimation for above of disruption or outage in system production, on account of Purchaser.

6 Delivery of Solar Power

6.1 Purchaser Requirement: Purchaser agrees to purchase one hundred percent (100%) of the Solar Power generated by the System and made available by the Power Producer to Purchaser at the Delivery Point during each relevant month of the Term. In the event that the Purchaser is unable to off take 100% of the electricity generated, when it is generated, then Deemed Generation will apply only in case of following conditions:

a) In the event Power Producer is generating power more than the available load, and the Purchaser is not able to export or record the excess units generated due to faults in the equipment's of the Purchaser e.g., Net billing Cables, Equipment's etc., which may stop the feeding/record of the Solar Power generated.

6.2 Estimated Annual Production

The annual estimate of Solar Power with respect to the System for any given year as determined pursuant to this Section shall be the "Estimated Annual Production". The Estimated Annual Production for each year of the Initial Term is set forth in Schedule IV hereof.

6.3 Suspension of Delivery

Power Producer shall be entitled to suspend delivery of electricity from the System to the Delivery Point for the purpose of maintaining and repairing the System upon giving one week's advance written notice to the Purchaser except

in the case 'of emergency repairs. Such suspension of Service shall not constitute a breach of this Agreement provided that the Power Producer shall use commercially reasonable efforts to minimize any 'interruption in service to the Purchaser. However, any preventive maintenance shall be done only during the period when plant is not generating.

7 Tariff and Payments

7.1 Consideration: Purchaser shall pay to the Power Producer a monthly payment (the "Solar Power Payment") for the Solar Power generated by the System as per the Metering clause 5.2 (b) above during each calendar month of the Term equal to the actual Monthly Production as recorded in Joint Meter Reading Report for the System for the relevant month multiplied by the Tariff irrespective of (i) whether any or all units of Solar Power has been drawn, consumed or utilized by Purchaser and / or (ii) whether any Solar Power has been injected, whether inadvertently or otherwise, into the grid of the Distribution Utility. The Power Producer will bill the Purchaser for each KWh metered as above at the Delivery Point, at the Tariff prevailing agreed upon i.e. Rs_____/kWh. The 'year' Considered shall be the financial year which April 1st to 31st March of every year. Schedule II provides a detailed year on year tariff schedule.

7.2 Invoice

The Power Producer shall invoice Purchaser on the first week of each month (each, an "Invoice Date") commencing on the first Invoice Date to occur after the Commercial Operation Date, for the Solar Power Payment in respect of the immediately preceding month. The last invoice shall include production only through the Expiration Date of this Agreement.

7.3 The invoice to the purchaser shall include:

(a) The Solar Power calculations for the relevant billing period.

(b) Supporting data, documents and calculations in accordance with this Agreement.

7.4 Time of payment: Purchaser shall pay all amounts due here under within **15 days** after the date of the receipt of the invoice via email or post ("Due Date").

7.5 Method of payment: Purchaser shall make all payments under the Agreement by electronic funds transfer only in immediately available funds to the account designated by the Power Producer from time to time. The current account details are mentioned in Annexure 1. All payments made here under 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. Further, if any taxes and duties are leviable currently or in future, such taxes and duties shall be paid by the Purchaser over and above the solar electricity tariff mentioned in this agreement. Such taxes and duties could include, but not restricted to Electricity Duty, Tax on Sale of Electricity (TOSE). If the Purchaser deducts any tax at source, the Purchaser will issue a tax credit certificates as per law.

7.6 Late Payment Surcharge/ Early Payment Discount;

In case payment of any invoice is delayed by the Purchaser beyond its Due Date, a later payment surcharge shall be payable by Purchaser to the Power Producer at the rate of 1.25% 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, compounded on monthly rests. Late Payment Surcharge shall be claimed by the Power Producer, through its subsequent invoice.

7.7 Disputed Payments: In the event that the Purchaser disputes an invoice, it shall give notice of such a dispute within 15 days of receiving the invoice setting out details of the disputed amount. The Purchaser shall pay by the Due Date 100% of any undisputed amount and in case the invoice is disputed, the

Purchaser shall pay an amount based on average consumption of last three consecutive undisputed invoices. Amount so recovered shall be subject to final adjustment on resolution of the dispute. Thereafter, the Parties shall discuss and try to resolve the disputed amount within a week of receipt of such notice of dispute. If the Parties resolve the dispute, an appropriate adjustment shall be made in the next invoice. If the dispute has not been resolved by the date of the next invoice the dispute shall be referred to a committee of one member from each of Purchaser and Power Producer, If the dispute is still not resolved by the next following invoice date, it shall be referred to Arbitration as provided in this Agreement. The Arbitration shall be governed as per the provision of the State Government.

7.8 Payment Security Mechanism

The purchase shall secure payment obligations with respect to electricity supplied by producer by entering into agreement to hypothecate cum deed of hypothecation with the produce and thereby hypothecate the three month receivable of producer on average basis equivalent to Letter of Credit (LC) amount in favor of producer. The charges for creating LC by bank will be borne by purchaser. The producer agrees that so long the amount being due from purchaser under this agreement is duly paid LC remain valid. In the event of default by purchaser, LC can be liquidated and purchaser shall reinstate same LC with seven (7) working days at own cost.

7.9 Change in Law:

(a) For the Purpose of this section 7.8, the term "Change in Law" shall mean the occurrence of any of the following events after the Effective date, resulting into any additional recurring / non-recurring expenditure by the Power Producer or any income to the Power Producer. 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: or (i) A change in the interpretation of any Law by any

Governmental Authority having the legal power to interpret or apply such Law, or any competent court; or (ii) The imposition of a requirement, for obtaining any Government Approvals which was not required earlier; or (iii) A change in the terms and conditions prescribed for obtaining any Government Approvals or the inclusion of any new terms or conditions for Obtaining such Government Approvals; or (iv) Any introduction of any tax made applicable for supply of power by the Power Producer as per the terms of this Agreement. Any benefit due to change in tax on the sale of solar energy shall be passed on to Purchaser. (v) However, change in the rate of any existing tax will not be considered a change in law. Any risk of change of tax rate whatsoever related to the work lies with the power producer. (vi) Any benefit arising due to change in above para (i) to (vi) shall be passed on to the Purchaser. But not include any change in any withholding tax on income or dividends distributed to the shareholders of the Power Producer.

(b) Application and Principles for computing impact of Change in Law:

While determining the consequence of Change in Law under this Article 7.8, the Parties shall have due regard to the 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 7.8, the affected Party to the same economic position as if such Change in Law has not occurred and such impact shall be mutually decided in writing.

(c) Solar Power Payment Adjustment Payment on account of Change in Law
Subject to provisions mentioned above, the adjustment in Solar Power Payment shall be effective from:

(i) The date of adoption, promulgation, amendment, re-enactment or repeal of the Law or Change in Law; or (ii) The date of order/ judgment of the competent court; of tribunal or

Governmental Authority, if the Change in law is on account of a change in interpretation of Law.

8 General Covenants

8.1 Power Producer's Covenants

The Power Producer covenants and agrees to the following:

(a) **Notice of Damage or Emergency:** The Power Producer shall (a) promptly notify Purchaser if it becomes aware of any damage to or loss of the use of the System or that could reasonably be expected to adversely affect the System, (b) immediately notify Purchaser once it becomes aware of any event or circumstance that poses an imminent risk to human health, the environment, the System or the Premises.

(b) **System Condition:** The Power Producer shall take all actions reasonably necessary to ensure that the System is capable of providing Solar Power at a commercially reasonable continuous rate: Subject to there being no Purchaser Default, the Power Producer shall provide 24 x 7 offsite monitoring and maintenance of the System throughout the period of this agreement at no additional cost.

(c) The System shall meet minimum guaranteed generation with Performance Ratio (PR) at the time of commissioning and related Capacity Utilization Factor (CUF) as per the daily normalized irradiance levels of the location during the O&M period. PR shall be minimum of 75% at the time of inspection for initial Project acceptance.

(d) **Governmental Approvals:** While providing the Installation work, solar Power and System Operations, the Power Producer shall obtain and maintain and secure all Governmental Approvals required to be obtained and maintained and secured by the Power Producer and to enable the Power Producer to perform such obligations.

(e) The interconnection of the Rooftop/Ground Mounted solar system with the network of the distribution licensee shall be made as per the technical standards for connectivity of distributed generated resources regulation's .as may be notified by the competent authority. The interconnection of the Rooftop/Ground Mounted solar system shall be as per the contracted load and / or respective

voltage level applicable to the Purchaser as per the provisions of the guidelines issued by the competent authority.

(f) **Health and Safety:** The Power Producer shall take all necessary and reasonable safety precautions with respect to providing the installation Work, Solar Power, and System Operations that shall comply with all Applicable Law pertaining-to the health and safety of persons and real and personal property.

8.2 Power Producer's Representatives

During the subsistence of this Agreement, the Power Producer undertakes to respond to all questions, concerns and complaints of the Purchaser regarding the System in a prompt and efficient manner. The Power Producer designates the following individual as its representative pertaining to performance of this Agreement till the Commercial Operation Date (COD).

Name:

Telephone:

Email:

8.3 Purchaser's Covenants

Purchaser covenants and agrees to the following:

(a) Notice of Damage or Emergency: Purchaser shall (a) promptly notify the Power Producer if it becomes aware of any damage to or loss of the use of the System or that could reasonably be expected to adversely affect the System.

(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 System or the Premises.

(c) Liens: Purchaser shall not directly or indirectly cause, create, incur, assume or suffer to exist any Liens on or with respect to the System or any interest therein. If Purchaser breaches its obligations under this Clause, it shall immediately notify the Power Producer in writing, and shall promptly cause such Lien to be discharged and released of record

without any cost to the Power Producer, and shall indemnify the Power Producer against all costs and expenses (including reasonable attorney's fees and court costs) incurred in discharging and releasing such Lien.

(d) Consents and Approvals: Purchaser shall ensure that any authorizations required of Purchaser under this Agreement, including those required for installation of System at the Premises and to draw / consume Solar Power are provided in a timely manner. The Purchaser shall cooperate with the Power Producer to obtain such approvals, permits, rebates or other financial incentives.

(e) Access to Premises - Grant of License: Purchaser hereby grants to the Power Producer a license co-terminus with the Term, containing all the rights necessary for the Power Producer to use portions of the Premises for the installation, operation and maintenance of the System pursuant to the terms of this Agreement, including inwards and outwards rights to the Premises for the Power Producer and its employees and authorized representatives and access to electrical panels and conduits to interconnector, disconnect the System with the Premises electrical wiring with the consent and approval of the Purchaser's authorized representative identified by the Purchaser. Photos will be provided by the Power Producer. Power Purchaser will assist in availing permissions to the site.

(e) Security: The building which has enhanced security of Solar Power System Purchaser will keep the premises locked. In spite of these measures, if any damages to the System takes place due to theft or vandalism then the same shall be claimed or reimbursed through insurances by Power producer. In case of theft and vandalism acts, the Purchaser will assist the Power Producer in procedures of filing FIRs, insurance claims and any other related activities. Whenever, the damages to the System occurs (except due to negligence of Power Producer) then the same shall be jointly assessed by both the Parties

and a severity level will be decided, which will further decide the duration offered to the Power Producer to correct the damage, and the Power Producer shall paid the amount on the basis of 'Deemed generation' for such a period. Power Producer shall be entitled to any insurance proceeds received for damages

in this clause. Purchaser will not conduct activities on, in or about the Premises that have a reasonable likelihood of causing damage, impairment or otherwise adversely affecting the System. If System is damaged due to any such activity or through any other agency contracted by the Purchaser directly or indirectly, such damage will be borne by the Purchaser.

(f) Regardless of whether Purchaser is owner of the Premises or leases the Premises from a landlord, Purchaser hereby covenants that (i) the Power Producer shall have access to the Premises and System during the Term of this Agreement, and (ii) neither Purchaser nor Purchaser's landlord will interfere or handle any of the Power Producer's equipment or the System without written authorization from the Power Producer.

(g) Temporary storage space during installation: Purchaser 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, System Operations and access for rigging and material handling.

(h) Sunlight Easements: Purchaser will take all reasonable actions as necessary to prevent other building, structures or flora from overshadowing or otherwise blocking access of 'sunlight to the System, including but not limited to such actions as may be reasonably necessary to obtain a solar access easement for such purpose.

(i) Evacuation — Purchaser shall off take 100% of the Solar Power generated from the Delivery Point, and pays all invoices raised by the Power Producer under this Agreement by the 'Due Date and pay interest on delayed payments, if any, as per this Agreement.

(j) Water - Power Purchaser at zero cost shall arrange Raw Water at a given point as per the requirements of the Power Producer, for periodic cleaning of the solar panels.

(k) Auxiliary Power—The Purchaser shall provide sufficient auxiliary power to the Power Producer for the maintenance and. operation of its system, if available and possible, at the rate Purchaser is paying to the HPSEBL.

(l) Relocation - If one or more of the Solar Power Plant panels needs to be temporarily moved or its generation suspended, for any other reason requested by the Power Purchaser, the Power Purchaser will be responsible for pre-agreed costs on actual only, arising from moving, disassembling and re-installing/ commissioning the Solar Power Plant, as agreed between the Parties. The Power Producer will be responsible for providing detailed documentary proof of the actual agreed costs borne for such relocation/disassembling. Within 30 days of these satisfactory documents being provided by the Power Producer, the Purchaser shall reimburse these pre-agreed expenses in full, and delayed payment beyond the date mentioned above will attract Late Payment charges as described in Clause 7.6. During any interruption in generation during such relocation, the Purchaser will continue to be billed as per Deemed Generation, during the period of interruption, for the affected Solar Power Plant(s).

9 Representations &Warranties

9.1 Representations and Warranties Relating to Agreement Validity In addition to any other representations and warranties contained in the Agreement, each Parry represents and warrants it's to me other that:

- (a) It is duly organized and validly existing and in good standing in the jurisdiction of its incorporation;
- (b) It has the full right and authority to enter into, execute, deliver, and perform its obligations under the Agreement.
- (c) It has taken all requisite corporate or other action to approve the execution, delivery, and performance of the Agreement;
- (d) The Agreement constitutes its legal, valid and binding obligation enforceable against such Party in accordance with its terms;
- (e) There is not litigation, action, proceeding or investigation pending or, to the best of its knowledge, threatened before any court or other Governmental

Authority by, against, affecting or involving any of its business or assets that could reasonably be expected to adversely affect its ability to carry out the transactions contemplated herein; and

(f) Its execution and performance of the Agreement and the transactions contemplated hereby do not constitute a breach of any term or provision of, or a default under (i) any contract or agreement to which it or any of its Affiliates is a party or by which it or any of its Affiliates or its or their property is bound, (ii) its organizational documents, or (iii) any Applicable Laws.

10 Taxes and Governmental Fees

10.1 Purchaser obligations

Purchaser shall pay for any taxes, fees or charges imposed or authorized by any Governmental Authority in future (as on date no such taxes/fees/charges are being levied) on sale of the Solar Power to Purchaser pursuant to clause 7. The Power Producer shall notify Purchaser in writing with a detailed statement of such amounts, which shall be invoiced by the Power Producer in the monthly bills and payable by Purchaser. Purchaser shall timely report, make filings for, and pay any and all sales, use, income or other taxes, and any other amounts assessed against it due to its purchase of the Solar Power. This clause at 10.1 excludes taxes specified at clause 10.2.

10.2 Power Producer Obligations

The Power Producer shall be responsible for all income taxes and any and all franchise fees or similar fees assessed against it due to its ownership of the System. The Power Producer shall not be obligated for any taxes payable by or assessed against Purchaser based on or related to Purchaser's overall income or revenues.

11 Force Majeure

11.1 Definition

"Force Majeure Event" means any act or event that prevents the affected Party from performing its obligation in accordance with the Agreement, if such act or event is beyond the reasonable control of the affected Party and such Party had been unable to overcome such act or event with the exercise of due diligence (including the expenditure of reasonable sums). Subject to the foregoing conditions, "Force Majeure Event" shall include without limitation the following acts or events: (i) natural phenomena, such as storms, hurricanes, floods, lightning, volcanic eruptions and earthquakes; (ii) explosions or fires arising from lighting or other causes unrelated to the acts or omissions of the Party seeking to be excused from performance; (iii) acts of war or public disorders, civil disturbances, riots, insurrection, sabotage, epidemic, terrorist acts or rebellion. 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 System shall be repaired / commissioned at its own cost by the Power Producer.

11.2 Excused Performance: Except as otherwise specifically provided in the Agreement, neither Party shall be considered in breach of the Agreement or liable for any delay or failure to comply with the Agreement, if and to the extent that such delay or failure is attributable to the occurrence of a Force Majeure Event; provided that the Party claiming relief under the clause 11 shall immediately (i) notify the other Party in writing of the existence of the Force Majeure Event, (ii) exercise all reasonable efforts necessary to minimize delay caused by such Force Majeure Event, (iii) notify the other Party in writing of the cessation or termination of said Force Majeure Event and (iv) provided, however, that Purchaser shall not be excused from making any payments and paying any unpaid amounts due in respect of Solar Power delivered to Purchaser prior to the Force Majeure Event performance interruption.

11.3 Termination as a Consequence of Force Majeure Event : If a Force Majeure Event shall have occurred that has affected the Power Producer's performance of its obligations hereunder and that has continued for a continuous period of one hundred eighty (180) days, then Purchaser shall be entitled to

terminate the Agreement and if such Force Majeure Event continues for further ninety (90) days period, the Agreement shall automatically terminate. Upon such termination for a Force Majeure Event, neither Party shall have any liability to the other (other than any such liabilities that have accrued prior to such termination).

12 Default

12.1 Power Producer Defaults and Power Purchaser Remedies

(a) **Power Producer Defaults:** The following events shall be defaults with respect to the Power Producer (each, a "Power Producer Default").

- (i) An Insolvency Event shall have occurred with respect to the Power Producer;
- (ii) Failure to achieve Commissioning of the System within 6 months of the Effective Date; and
- (iii) The Power Producer breaches any material term of the Agreement and (A) if such breach can be cured within sixty (60) days after Purchaser's written notice of such breach and the Power Producer fails to cure the same; or (B) the Power Producer fails to commence and pursue a cure within such sixty (60) days period if a longer cure period is needed.

(b) **Purchaser's Remedies:**

(i) If a Power Producer Default described in clause 12.1 (a) has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to clause 13, Purchaser shall have a right to deliver a notice of its intention to terminate this Agreement ("Purchaser Preliminary Default Notice"), which shall specify in reasonable detail, the circumstances giving rise to the issue of such notice.

(i) Upon the occurrence and continuation of Power Producer Default and the failure by the Power Producer to cure such default within the applicable cure period specified in this Article; the Purchaser shall be at liberty avail the services of any other firm / successful bidder.

(ii) Following the issue of Purchaser Preliminary Default Notice, 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 Power Producer's Default having regard to all the circumstances: If the Power Producer Default is not cured within a period of sixty (60) days of the issue of Purchaser Preliminary Default Notice or any other such period mutually agreed upon by the Parties, the Purchaser shall have the right to terminate this Agreement by issuing a Purchaser Termination Notice.

(iv) Upon the delivery of the Purchaser Termination Notice, this Agreement shall stand terminated. The Power Producer shall have the liability to make payment within sixty (60) days from the date of Purchaser Termination Notice towards compensation to Purchaser equivalent to the difference between the Tariff and the grid rate notified by the relevant Government Authority for that point in time multiplied by the estimated Solar Power generated for a period of two (2) years following the termination, considered on normative capacity utilization factor.

(v) If the Power Producer fails to remove the System from the Premises within one month from the date of termination, the Purchaser shall be entitled to dispose of the System in any manner it deems fit. The Power Purchaser may exercise any other remedy it may have at law or equity or under the Agreement.

12.2 Power Purchaser Defaults and Power Producer's Remedies

(a) Purchaser Default: The following events shall be defaults with respect to Purchaser (each, a "Purchaser Default") (i) An Insolvency Event shall have occurred with respect to Purchaser; (ii) Purchaser breaches any material term of the Agreement if (A) such breach can be cured within sixty (60) days after the Power Producer's notice of such breach and Purchaser fails to so Cure, or (B) Purchaser Fails to commence and pursues aid cure within such sixty (60) day period if a longer cure period is needed; and (iii) Purchaser fails to pay the Power Producer any undisputed amount or, if the amount is disputed, an amount based on average consumption of last three consecutive undisputed invoices to the Power Producer under clause 7.7 of this Agreement within sixty (60) days from the receipt of notice from the Power Producer of such past due amount.

(b) Power Producer's Remedies: If a Purchaser Default described in Clause 12.2 (i) has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to Clause 13, the Power Producer shall be titled to terminate this Agreement by serving a fifteen (15) days' notice and upon such termination, (A) the Power Producer shall be entitled to receive from Purchaser the Purchase Price. The Purchase Price payable shall be the Purchase Price Specified in Schedule III that falls on such date. Upon the payment of the Purchase Price, the Power Producer shall cause the title of the System to transfer to the Purchaser and (ii) the Power Producer may exercise any other remedy it may have at law or equity or under the Agreement.

13 Limitations of Liability

13.1 Except as expressly provided herein, neither Party shall be liable to the other Party or its Indemnified Persons for any special, punitive, exemplary, indirect, or consequential damages, losses or damages for lost revenue or lost profits, whether foreseeable or not, arising out of, or in connection with the Agreement.

13.2 Subject to the provisions of the Agreement, the Power Producer shall be solely responsible for the manner in which its obligations under this Agreement are to be performed. All employees and representatives of the Power Producer, or contractors engaged by the Power producer in connection with Power Producer and shall not be deemed to be employees, representatives, contractors of the Purchaser Nothing contained in the Agreement or in any agreement or contract executed by the Power Producer shall be construed to create any contractual relationship between any such employees, representatives or contractors and the Purchaser.

13.3 Notwithstanding any liability or obligation that may arise under this Agreement, any loss, damage, liability, payment, obligation or expense which is insured or not or for which the Purchaser can claim compensation under any insurance policy, shall not be charged to or payable by the Purchaser.

14 Assignment & Novation

14.1 Assignment: Notwithstanding anything contained herein, the Power Producer has the right to assign all or any of its rights under this Agreement (including rights over any assets hereunder), to any third party including, though not restricted to any lender, equipment lessor or other party (“Assignment”), with the consent of the Power Purchaser. The Power Purchaser shall not unreasonably withhold such consent. In the event of such assignment, the Purchaser will be able to hold the Power Producer as well as the party to whom the benefits under this contract are assigned, to be jointly and severally responsible for performing the obligations under this contract. Further, in the event of assignment, the Purchaser agrees to make the payments due to the Power Producer under this agreement, directly to the assignee, upon receipt of such notice by the Power Producer. If the Power Producer were to sell the Solar Power Plant, then the new buyer(s) would need to abide by this Agreement. Further, the Power Producer reserves the right to assign whole or part of the assets to lenders/ leasing companies. Purchaser may assign its rights under this Agreement, without the prior consent of Power Producer, to an Affiliate or any successor in interest to Purchaser, whether by way of merger, reorganization or sale of assets (including any sale of a line of business). This Agreement shall inure to the benefit of and be binding upon Purchaser and its successors or assigns. However, any such actions as intended by the Power Producer under Article 14.1 and Article 14.2 shall be binding on Power Purchaser, if there is zero material inconsistencies present in the contract provisions during the time of assignment/ novation, else, it shall be construed as default in contract and appropriate actions shall be taken as deemed fit.

14.2 Novation: The Parties agree and acknowledge that the Power Producer may intend to novate the Agreement to a party, and has the right to transfer any or all of its rights and obligations under this Agreement to a party or any other third party (“New Party”), with the consent of the Power Purchaser. The Power Purchaser shall not unreasonably withhold such consent. Upon Novation, the New Party shall automatically and without any further action be entitled to all the same rights and assume the same obligations, under this Agreement, as if it were originally a party to this Agreement. Further, the Purchaser hereby agrees and undertakes that, promptly upon receiving a request from the Power Producer, the Purchaser shall execute such further writings, deeds and/or agreements and take all such further actions as may be necessary for effecting or implementing the transfer of any or all of the Power Producer’s rights and/or obligations under this Agreement to the New Party. If the parties agree to do Novation, then separate Novation agreement shall be executed.

14.3 Notices

Unless otherwise provided in the Agreement, all notices and communications concerning the Agreement shall be in writing and addressed to the Parties at the addresses set forth below:

Power Producer's address and contact details:

Purchasers address and contact details:

Unless otherwise provided herein, any notice provided for in the Agreement shall be hand delivered, sent by registered post, or by courier delivery, or transmitted by facsimile and shall be deemed delivered to the addressee or its office when received at the address for notice specified above when hand delivered or sent by courier delivery, upon posting if sent by registered post and upon confirmation of sending when sent by facsimile on the next business day.

15. Confidentiality

15.1 Confidentiality obligation

(a) If the Power Producer provides confidential information, including business plans, strategies, financial information, proprietary, patented, licensed, copy righted or trademarked information, and / or technical information regarding the design, operation and maintenance of the System ("Confidential Information") to Purchaser or if in the course of performing under the Agreement or negotiating the Agreement Purchaser learns Confidential Information regarding the facilities or plans of the Power Producer, Purchaser shall (a) protect the Confidential information from disclosure to third parties with the same degree of care accorded to its own confidential and proprietary information, and (b) refrain from using such Confidential Information, except in the negotiation and performance of the Agreement. Notwithstanding the above, Purchaser may provide such Confidential Information to its officers, directors, manager, employees and Affiliates (collectively "Representatives"), in each case whose access is reasonably necessary for purposes of the Agreement. Each such recipient of Confidential information shall be informed by Purchaser of its confidential nature and shall be directed to treat such information confidentially and shall agree to abide by these provisions. Purchaser shall be liable for any breach of this provision by any entity to whom it improperly discloses Confidential Information. All Confidential Information shall remain the property of the Power Producer and shall be returned to it after Purchaser's need for it has expired or upon the request of the Power Producer.

(b) If the Purchaser provides confidential information, including business plans, strategies, financial information, proprietary, patented, licensed, copy righted or trademarked information, ("Confidential Information") to the Power Producer or, if in the course of performing under the Agreement or negotiating the Agreement the Power Producer learns Confidential Information regarding the facilities Or plans of the Purchaser, the Power Producer shall (a) protect the Confidential Information from disclosure to third parties with the same degree of

care accorded to its own confidential and proprietary information, and (b) refrain from using such Confidential Information, except in the negotiation and performance of the Agreement. Notwithstanding the above, the Power Producer may provide such Confidential Information to its officers, directors, managers, employees and Affiliates (collectively, "Representatives"), in each case whose access is reasonably necessary for purposes of the Agreement. Each such recipient of Confidential Information shall be informed by the Power Producer of its confidential nature and shall be directed to treat such information confidentially and shall agree to abide by these provisions. The Power Producer shall be liable for any breach, of this provision by any entity to whom it properly discloses Confidential Information. All Confidential Information shall remain the property of the Purchaser and shall be returned to it after the Power Producer's need for it has expired or upon the request of the Purchaser.

15.2 Permitted Disclosures

Notwithstanding any other provision contained herein, neither Party shall be required to hold confidential any information that (i) becomes publicly available other than through the receiving Party. (ii) Is required to be disclosed under Applicable Law or pursuant to a validity issued notice or required filing, but a receiving Party subject to any such requirement shall promptly notify the disclosing Party of such requirement (iii) is independently developed by the receiving Party; or (iv) becomes available to the receiving Party without restriction from a third party under no obligation of confidentiality.

16 Indemnity

16.1 Power Producer's Indemnity

Subject to clause 13, the Power Producer agrees that it shall indemnify and hold harmless Purchaser and its members, officers, employees, students, casual laborers, persons permitted to run any business or service, such as canteens, stores, photocopy units, banks, post office, courier service, hospital and to any

lawful visitors (collectively, the "Purchaser Indemnified Parties") from and against any and all Losses incurred by the Purchaser Indemnified Parties to the extent arising from or out of the following any claim for or arising out of any injury to Or death of any Person or Loss or damage to Property of any Person to the extent arising out of the Power Producer's negligence or willful misconduct. The Power Producer shall not, however, be required to reimburse or indemnify any Purchaser Indemnified Party for any Loss to the extent such Loss is due to the negligence or willful misconduct of any Purchaser indemnified Party.

16.2 Purchaser's Indemnity

Subject to clause 13, Purchaser agrees that it shall indemnify, defend and hold harmless the Power Producer, its permitted successors and assigns and their respective directors, officers, employees, contractors, sub-contractors, and agents (collectively, the "Power Producer indemnified Parties") from and against any and all Losses incurred by the Power Producer Indemnified Parties to the extent arising from or out of any claim for or arising out of any injury to or death or any Person or loss or damage to property of any Person to the extent arising out of Purchaser's negligence or willful misconduct. Purchaser shall not, however, be required to reimburse or indemnify Producer Indemnified Party for any Loss to the extent such Loss is due to the negligence or willful misconduct of any Power Producer Indemnified Party.

17. Miscellaneous

17.1 Amendments

This Agreement may only be amended, modified or, supplemented by an instrument in writing executed by duly authorized representatives of the Power Producer and Purchaser.

17.2 Good will and Publicity

Neither Party shall use any name, trade name, service mark or trademark of the other Party in any promotional or advertising material without the prior written consent of such other Party. The Parties shall coordinate and cooperate with each other when making public announcements related to the execution and existence of this Agreement, and each Party shall have the right to promptly review, comment upon and approve any publicity materials, press releases and other public statements by the other Party that refer to, or that describe any aspect of, this Agreement; provided that no such publicity releases or other public statements (except for filings or other statements or releases as may be required by applicable law) shall be made by either Party without the prior written consent of the other Party. Without limiting the generality of the foregoing and whether or not the consent of the other Party is required or obtained, all public statements must accurately reflect the rights and obligations of the Parties under this Agreement.

17.3 Industry Standards

Except as otherwise set forth herein, for the purpose of the Agreement, 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 reasonable and timely. Unless expressly defined herein, words having well-known technical or trade meanings shall be so construed.

17.4 Cumulative Remedies

Except as set forth to the contrary herein, any right or remedy of the Power Producer or Purchaser shall be cumulative and without prejudice to any other right or remedy.

17.5 No Waiver

The failure of the Power Producer or Purchaser to enforce any of the provisions of the Agreement, or the waiver thereof, shall not be construed as a general

waiver or relinquishment on its part of any such provision in any other instance or of any other provision in any instance.

17.6 Survival

The obligations under clause 8:1 (d) (Power Producer Covenant), Sections 8.3(d), (e), (f) and (g) (Purchaser Covenants), clause 10 (Taxes and Governmental Fees), clause 13 (Limitation of Liability) clause 12.2 (Notices), clause 15 (Confidentiality), or pursuant to other provisions of this Agreement that, by their nature and context, are intended to survive termination of this Agreement shall survive the expiration or termination of this Agreement for any reason.

17.7 Governing Law & Jurisdiction

(a) This Agreement shall be governed by and construed in accordance with the laws of India. The Parties agree that the courts in shall have jurisdiction over any action or proceeding arising under the Agreement.

(b) In the event of any Dispute, difference of opinion or dispute or claim arising out of or relating to this Agreement or breach, termination or the invalidity thereof, shall firstly be attempted to be resolved by conciliation. Any Dispute that cannot be settled through conciliation procedure shall be referred to arbitration in accordance with the procedure give below. The Parties agree to comply with the awards resulting from arbitration and waive their rights to any form of appeal in so far as such waiver can validity be made. Cost of conciliation shall be equally shared by both the parties.

(c) Settlement of Dispute:

If any dispute of any kind whatsoever, EXCEPT the billing dispute, resolution as to which is provided under clause 7.7, arises between Purchaser and Power Producer in connection with or arising out of the contract including without prejudice to the generality of the foregoing, any question regarding the existence, validity or termination, the parties shall seek to resolve any such

dispute or difference by mutual consent. If the parties fail to resolve, such a dispute or difference by mutual consent, within 45 days of its arising, then the dispute shall be referred by either party by giving notice to the other party in writing of its intention to refer to arbitration as hereafter provided regarding matter under dispute. No arbitration proceedings will commence unless such notice is given. Any dispute in respect of which a notice of intention to commence arbitration has been given shall be finally settled by arbitration. The Arbitration shall be governed as per the provision of the State Government rules.

17.8 Severability

If any term, covenant or condition in the Agreement shall, to any extent, be invalid or unenforceable in any respect under Applicable Law, the remainder of the Agreement shall not be affected thereby, and each term, covenant or condition of the Agreement shall be valid and enforceable to the fullest extent permitted by Applicable Law and if appropriate, such invalid or unenforceable provision shall be modified or replaced to give effect to the underlying intent of the Parties and to the intended economic benefits of the Parties.

17.9 Successors and Assigns

This Agreement and the rights and obligations under the Agreement shall be binding upon and shall inure to the benefit of the Power Producer and Purchaser and their respective successors and permitted assigns.

17.10 Counterparts

This Agreement may be executed in one or more counterparts, all of which taken together shall constitute one and the same instrument.

17.11 Independent Service Provider

This Agreement is on a principal-to-principal basis between the parties hereto. Nothing contained in this Agreement shall be construed or deemed to create any association, partnership or joint venture or employer employee relationship or principal-agent relationship in any manner whatsoever between the Parties.

17.12 Entire Agreement

This Agreement constitutes the entire agreement between the Parties hereto with respect of the subject matter of this Agreement and supersedes all prior agreements and undertakings; written or oral, with respect to the subject matter here of except as otherwise expressly provided here in. The schedules annexed to this Agreement also form a part of this Agreement.

17.13 Insurance

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

17.14 Annual accounts reconciliation shall be conducted annually between the Power Producer and Purchaser.

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

FOR & ON BEHALF OF FOR & ON BEHALF OF POWER

Concerned Dept.

PRODUCER

Signature :

Signature :

Name :

Designation :

WITNESSES

1) Signature :

Name :

Designation :

2) Signature :

Name :

Designation :

Name :

Designation :

WITNESSES

1) Signature :

Name :

Designation :

2) Signature :

Name :

Designation :

Annexure E

List of buildings

| ZONE NAME | Circle Name | Division Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connected Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|---------------|-------------|---------------|-------------------|----------|--------------|-----------------------|---|------------|----------------|--|---|---|
| HAMIRPUR ZONE | HAMIRPUR | NADAUN | NADAUN | 2111 | 200008001505 | Principal Kv Nadaun | #N/A | 08-07-24 | 149.920 | 80 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPUR | HAMIRPUR-I | 2131 | 100008002582 | I.H.M Sasan | HAMIRPUR,HAMIRPUR,P.O-JHANARI SUJANPUR 171001 | 24-07-24 | 251.000 | 58 | | Tin roof are available on different buildings |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPUR | HAMIRPUR-I | 2131 | 100008002585 | The Principal College | HAMIRPUR,HAMIRPUR,JHANIARA HAMIRPUR 177001 | 23-07-24 | 161.620 | | | Private college/Institute |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPUR | HAMIRPUR-I | 2131 | 100008002586 | Dean College Forestry | HAMIRPUR,HAMIRPUR,P.O NERI SUJANPUR 171001 | 22-07-24 | 201.040 | 50 | | |

| | | | | | | | | | | | | |
|------------------|----------|--------------|-----------------|------|--------------|---|---|--------------|---------|----|--------------------------------------|--|
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002601 | Principal Baru | HAMIRPUR,HAMIRPUR,HAMI RPUR . 177001 | 08-07- 24 | 104.400 | 50 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002603 | Principal Polytech Colleg | HAMIRPUR,HAMIRPUR,BARU . 177001 | 08-07- 24 | 298.400 | 80 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002681 | The Principal Polytechnic Baru | HAMIRPUR,HAMIRPUR,COMP UTER & I . 177001 | 12-07- 24 | 106.820 | 30 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002687 | Medical Ayurvedic | HAMIRPUR,HAMIRPUR,DISTR ICT HAM . 177001 | 08-07- 24 | 146.460 | 40 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002612 | The Deputy Commission er | HAMIRPUR,HAMIRPUR,HAMI RPUR . 177001 | 08-07- 24 | 200.600 | 25 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002643 | The Principal Kv | HAMIRPUR,HAMIRPUR,HAMI RPUR . 177001 | 12-07- 24 | 123.100 | 75 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002621 | Suptt Office | HAMIRPUR,HAMIRPUR,HAMI RPUR . 177001 | 08-07- 24 | 118.300 | 20 | 5 kW off-grid SPP installed | |

| | | | | | | | | | | | | |
|------------------|----------|--------------|-----------------|------|--------------|---------------------------|---|--------------|---------|-----|--------------------------------|---|
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002600 | Chief Officer | HAMIRPUR,HAMIRPUR,HAMI RPUR . 177001 | 08-07- 24 | 221.300 | 75 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002682 | Project . | HAMIRPUR,HAMIRPUR,ODA . 177001 | 08-07- 24 | 162.600 | 60 | | MOU for 2040 kW GCRTS under PMSG: MBY signed with SECI New Delhi |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002665 | The Judge | HAMIRPUR,HAMIRPUR,HAMI RPUR . 177001 | 08-07- 24 | 151.320 | 25 | 19 kW ogg-grid installed | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- II | 2132 | 100008002598 | Smo Hospital | HAMIRPUR,HAMIRPUR,HAMI RPUR . 177001 | 08-07- 24 | 283.000 | 100 | | |
| HAMIRPUR ZONE | HAMIRPUR | BARSAR | BHORANJ | 2123 | 100008000219 | The Principal Inv . | Dunger,DUNGER,ESD.Bhoranj Hamirpur 176045 | 05-07- 24 | 178.460 | 120 | | |
| HAMIRPUR ZONE | HAMIRPUR | HAMIRPU R | HAMIRPUR- I | 2131 | 100008002581 | I.H.M Sasan | HAMIRPUR,HAMIRPUR,P.O- JHANARI HAMIRPUR 171001 | 24-07- 24 | 177.200 | 50 | | |

| ZONE NAME | Circle Name | Division Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connected Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|-------------|-------------|---------------|-------------------|----------|--------------|--------------------|--|------------|----------------|--|---|---------|
| SHIMLA ZONE | NAHAN | PAONTA | PAONTA | 1311 | 200008000542 | Smo Civil Hospital | -, -, HIMACHAL PRADESH Himachal 173025 | 18-07-24 | 150.000 | 150 | | |
| SHIMLA ZONE | NAHAN | PAONTA | PAONTA | 1311 | 100008002139 | Indian Manegment | PAONTA SAHIB, PAONTA SAHIB, KUNJ KUNJA MATR 173001 | 18-07-24 | 420.000 | 300 | | |
| SHIMLA ZONE | NAHAN | PAONTA | PAONTA | 1311 | 100008002140 | The Assistant Drc | PAONTA SAHIB, PAONTA SAHIB, BADR HPSEBL COM 173025 | 18-07-24 | 548.400 | 10 | | |

| | | | | | | | | | | | | |
|----------------|-------|--------|---------|------|--------------|-------------------------------|--|----------|---------|-----|-------------------|--|
| SHIMLA ZONE | NAHAN | PAONTA | PAONTA | 1311 | 100008002138 | The Incharge . | PAONTA,PAONTA,MAIN MARKIT PAONTA SAH 173025 | 18-07-24 | 223.000 | 150 | | |
| SHIMLA ZONE | NAHAN | NAHAN | NAHAN 1 | 1321 | 100008002831 | The Principal Nahan | NAHAN,NAHAN,YASHWAN T VIHAR BAN NAHAN 173001 | 08-07-24 | 191.000 | 50 | 50 | |
| SHIMLA ZONE | NAHAN | NAHAN | NAHAN 1 | 1321 | 100008002369 | The Distt Session Judge | NAHAN,NAHAN,JUDICIAL COMPLEX . 173001 | 10-07-24 | 241.130 | 100 | 10 kW off Grid | |
| SHIMLA ZONE | NAHAN | NAHAN | NAHAN 1 | 1321 | 100008002830 | Dr Y S P Govt Nahan | NAHAN,NAHAN,MEDICAL COLLEGE NAHAN 173001 | 08-07-24 | 249.960 | 100 | | |

| | | | | | | | | | | | | |
|----------------|-------|---------|---------|------|--------------|----------------|--|----------|---------|-----|--|--|
| SHIMLA ZONE | NAHAN | RAJGARH | SARAHAN | 1334 | 100008003512 | Bmo Pachhad | SARAHAN,SARAHAN,SARA HAN SIRMOUR 173024 | 09-07-24 | 254.000 | 100 | | |
|----------------|-------|---------|---------|------|--------------|----------------|--|----------|---------|-----|--|--|

| ZONE NAME | Circle Name | Division Name | Sub-Division Name | Locati on | Consumer ID | Name | Address | Created on | Connect ed Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|----------------|----------------|------------------|----------------------|--------------|--------------|--------------------------------------|--|------------|-----------------------|--|--|---------|
| SHIMLA ZONE | SHIMLA | CITY(E) | CHOTTA SHIMLA | 1112 | 100008001386 | The Under Secy. S.A.D. H.P.Sec | CHOTTA SHIMLA,CHOTTA SHIMLA., SHIMLASHIMLA 171001 | 08-07-24 | 652.320 | 100 | | |
| SHIMLA ZONE | SHIMLA | CITY(E) | CHOTTA SHIMLA | 1112 | 100008001482 | The Medical . | AYURVEDIC HOSPITAL,AYURVEDIC H SHIMLA 171001 | 08-07-24 | 498.200 | 10 | 30 | |

| | | | | | | | | | | | | |
|----------------|--------|-----------------|------------------|------|--------------|---|--|----------|---------|----|----|--|
| SHIMLA ZONE | SHIMLA | CITY(E) | CHOTTA SHIMLA | 1112 | 100008001403 | Secy, Hppsc | NIGAM VIHAR, SHIMLA - 2,NIGAM SHIMLASHIMLA 171001 | 08-07-24 | 106.890 | 7 | 10 | |
| SHIMLA ZONE | SHIMLA | CITY(E) | IDGAH | 1113 | 200015000967 | Curator State Museum | KALIBARI ROAD,KALIBARI ROAD, SHIMLASHIMLA 171001 | 08-07-24 | 123.560 | 10 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | JUTHOG | 1122 | 100008001772 | The Additional Jail | SHIMLA,SHIMLA,.. KANDA 171002 | 15-07-24 | 126.720 | 50 | 45 | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | JUTHOG | 1122 | 200008000836 | Dlsa,Shimla (adr Centre) | DLSA,SHIMLA (ADR CENTRE) 171005 | 15-07-24 | 121.000 | 10 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | JUTHOG | 1122 | 200009001525 | Hppwd Taradevi Rest House | TARADEVI,TARADEVI, HIMACHAL PRADESHHimachal 171010 | 09-07-24 | 109.800 | 30 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | JUTHOG | 1122 | 100008001774 | The S. E. Totu | SHIMLA,SHIMLA,.. TUTO 171002 | 09-07-24 | 269.660 | 5 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | DHALLI | 1123 | 100015000853 | The Secretary Apmc Kisan Bhawa | SHIMLA,SHIMLA,(E) SECTION DHAL SHIMLA 171012 | 12-07-24 | 185.520 | 50 | | |

| | | | | | | | | | | | | |
|----------------|--------|-----------------|----------|------|--------------|---|--|----------|--------------|-----|----|--|
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | DHALLI | 1123 | 200008001037 | Principal Atal Institute Of Me | CHAMIYANA SHIMLA,CHAMIYANA SHI SHIMLASHIMLA 171006 | 15-07-24 | 2116.58 0 | 100 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | DHALLI | 1123 | 100020002886 | Municipal Mc Shimla | SJPNL OFFICE US CLUB SHIMLA-1, SHIMLA 171012 | 06-07-24 | 163.500 | 10 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | DHALLI | 1123 | 100008003300 | Reginal Manager | .HRTC LOCAL UNITDHALLISHIMLA,. DHALLIDHALLI 171012 | 06-07-24 | 540.000 | 10 | 46 | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | JUNGA | 1125 | 100008001814 | The Medical Officer | HOSPITAL JUNGA,HOSPITAL JUNGA, ..CIVIL 171218 | 19-07-24 | 152.980 | 40 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | MASHOBRA | 1126 | 100008004100 | The Principal Training Institu | .CRIAGNENO MASHOBRASHIMLAMAS HO SHIMLASHIMLA 171007 | 15-07-24 | 127.700 | 20 | 30 | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | MASHOBRA | 1126 | 200008001233 | District Programme Officer Shi | Model Children Home For Girls 171007 | 09-07-24 | 109.400 | 15 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 1 | MASHOBRA | 1126 | 100008001852 | The Director . | SHIMLA,SHIMLA,MASHO BRA SHIMLA 171007 | 09-07-24 | 134.800 | 100 | | |

| | | | | | | | | | | | | |
|----------------|--------|-----------------|-----------|------|--------------|--------------------------------------|--|----------|--------------|-----|--|---|
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 2 | KASUMPATI | 1133 | 100020002968 | Assistant Health Sub Div | SHIMLA,SHIMLA,02 STAGE THIR 171012 | 04-07-24 | 495.000 | 10 | | |
| SHIMLA ZONE | SHIMLA | SHIMLA NO. 2 | KASUMPATI | 1133 | 100020002967 | Assistant Health Sub Div | SHIMLA,SHIMLA,02 KWAKAG PUM 171012 | 05-07-24 | 1700.00 0 | 20 | | There is no space on roof but enough space on ground for installation of 100 kW Solar Plant |
| SHIMLA ZONE | SHIMLA | THEOG | SAINJ | 1143 | 200012000781 | Hpmc Food Processing Plant | #N/A | 08-07-24 | 1888.60 0 | 100 | | |
| SHIMLA ZONE | SHIMLA | SUNI | SUNI | 1151 | 100008000112 | Incharge Sr Medical Officer Ci | „Sunni Shimla 171301 | 12-07-24 | 158.000 | 20 | | |
| SHIMLA ZONE | SHIMLA | SUNI | SUNI | 1151 | 200008000362 | Govt Iti Dargi | Vill Dargi,VILL DARGI, 171103 | 12-07-24 | 119.200 | 30 | | |
| SHIMLA ZONE | SHIMLA | SUNI | DHAMI | 1152 | 100008003200 | Principal Degree 16 Mill | GHANDAL,GHANDAL,GH ANDAL GHANDAL 171103 | 08-07-24 | 161.000 | 30 | | |
| SHIMLA ZONE | ROHRU | ROHRU | ROHRU | 1411 | 200008000735 | Company Principal Polytechnic | Kh no 760 gangtoli near hpmc R HIMACHAL PRADESHHimachal 171207 | 10-07-24 | 109.000 | 80 | | |

| | | | | | | | | | | | | |
|----------------|--------|--------|------------|------|--------------|---|---|----------|---------|-----|----|--|
| SHIMLA ZONE | ROHRU | ROHRU | ROHRU | 1411 | 200008000590 | Ms Civil Hospital Rohru | ROHRU,ROHRU, HIMACHAL PRADESHHimachal 171207 | 10-07-24 | 115.000 | 90 | | |
| SHIMLA ZONE | ROHRU | ROHRU | ROHRU | 1411 | 100008000824 | The Principal College | ROHRU,ROHRU,ANU ANU 171207 | 10-07-24 | 120.000 | 10 | 40 | |
| SHIMLA ZONE | ROHRU | ROHRU | ROHRU | 1411 | 100020002104 | The Engineer | ROHRU,ROHRU,ROHRU IPH ANU BA 171207 | 10-07-24 | 150.000 | 10 | | |
| SHIMLA ZONE | ROHRU | ROHRU | ROHRU | 1411 | 100020002100 | The Engineer | ROHRU,ROHRU,ROHRU IPH SUB DI 171207 | 10-07-24 | 240.000 | 5 | | |
| SHIMLA ZONE | ROHRU | ROHRU | CHIRGAON-I | 1412 | 200008000956 | Company A.E Hptcl Sub Station | „02 171208 | 18-07-24 | 229.000 | 10 | | |
| SHIMLA ZONE | ROHRU | JUBBAL | KOTKHAI | 1422 | 200008000661 | Ms. Director Cum Principal Abv | VILL.PRAGATINAGAR.PO. GUMMA.TEH HIMACHAL PRADESHHimachal 171202 | 12-07-24 | 147.000 | 100 | | |
| SHIMLA ZONE | RAMPUR | RAMPUR | RAMPUR | 1521 | 100008000620 | The Medical Khaneri | RAMPUR,RAMPUR,KHAN ERI 3 172001 | 06-07-24 | 121.200 | 10 | | |
| SHIMLA ZONE | RAMPUR | RAMPUR | RAMPUR | 1521 | 200008000671 | Mgmsec Khaneri | KHANERI,KHANERI, HIMACHAL PRADESHHimachal 172001 | 06-07-24 | 115.000 | 10 | | |
| SHIMLA ZONE | RAMPUR | RAMPUR | RAMPUR | 1521 | 100008000619 | The Medical Khaneri | RAMPUR,RAMPUR,KHAN ERI 2 172001 | 09-07-24 | 800.420 | 5 | 20 | |

| | | | | | | | | | | | | |
|----------------|--------|--------|---------|------|--------------|------------------------|--|----------|---------|----|--|--|
| SHIMLA ZONE | RAMPUR | RAMPUR | SARAHAN | 1523 | 100003008030 | The Medical Sarahan | SARAHAN,SARAHAN,PO SARAHAN N/A 172034 | 06-07-24 | 119.680 | 30 | | |
|----------------|--------|--------|---------|------|--------------|------------------------|--|----------|---------|----|--|--|

| ZONE NAME | Circle Name | Division Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connected Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|------------|-------------|---------------|-------------------|----------|--------------|--------------------------------|--|------------|----------------|--|---|---------|
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 100020003879 | Mr. Sdo . | MANDI,MANDI,MAGWAIN . 175001 | 09-07-24 | 292.000 | 7 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 200007023454 | Ms. District Language Office | Motipur,MOTIPUR, HIMACHAL PRADESHHimachal 175001 | 09-07-24 | 721.300 | 30 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 100008005302 | Mch Zonal Hospital Mandi Zonal | ZONAL HOSPITALZONAL HOSPITALDI DISTT.MANDIDISTT.MANDI 175001 | 12-07-24 | 432.000 | 18 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 100008002511 | Circuit House | MANDI,MANDI,JAILROAD . 175001 | 09-07-24 | 129.000 | 25 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 100008002509 | Chief Pwd | MANDI,MANDI,JAILROAD . 175001 | 09-07-24 | 137.000 | 25 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 200008000908 | Registrar Sardar Vallabh Bhai | 175001 | 09-07-24 | 199.240 | 25 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 100008002514 | Cmo . | MANDI,MANDI,SAMKHETAR . 175001 | 12-07-24 | 128.440 | 20 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-I | 3111 | 100008002517 | Medical Zonel Hospital | MANDI,MANDI,SAMKHETAR . 175001 | 12-07-24 | 373.260 | 50 | | |
| MANDI ZONE | MANDI | MANDI | MANDI-II | 3112 | 100008003400 | Regional Manager | .SAULI KHADMANDIMANDI,.SAULI K MANDIMANDI 175001 | 05-07-24 | 240.000 | 50 | | |

| | | | | | | | | | | | | |
|---------------|-------|-------------------|---------------------|------|--------------|---|---|--------------|---------|----|--|--|
| MANDI ZONE | MANDI | MANDI | KATAULA | 3116 | 200008000615 | Bmo Kataula | VPO Sub. Teh Kataula Mandi (HP KATAULA MANDIKataula Mand 175005 | 09-07- 24 | 104.380 | 20 | | |
| MANDI ZONE | MANDI | JOGINDER NAGAR | JOGINDER NAGAR-1 | 3121 | 100012001301 | Govt Av Approch Road | JNAGAR,JNAGAR,JNAGAR JNAGAR 170612 | 20-07- 24 | 145.840 | 50 | | |
| MANDI ZONE | MANDI | SARKAGHAT | SARKAGHAT | 3141 | 200009001526 | Secretary Institute Of Driving | HIMACHAL PRADESHHimachal 175024 | 10-07- 24 | 179.880 | 25 | | |
| MANDI ZONE | MANDI | GOHAR | PANDOH | 3152 | 200008000967 | Assistant Director Reg. Ayurve | #N/A | 15-07- 24 | 347.860 | 10 | | |
| MANDI ZONE | MANDI | GOHAR | JANJEHLI | 3153 | 100008003514 | Principal Prti Thunag | „VPO & TEHSIL THUNAG MANDI 175048 | 20-07- 24 | 202.100 | 40 | | |

| ZONE NAME | Circle Name | Division Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connect ed Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|------------|-------------|---------------|-------------------|----------|--------------|--------------------------------|-------------------------------------|------------|-----------------|--|---|-----------------------|
| MANDI ZONE | KULLU | KULLU | KULLU-I | 3311 | 200008000225 | District Language Officer | DHALPUR KULLU,DHALPUR KULLU, 175101 | 11-07-24 | 278.400 | 100 | 10 | |
| MANDI ZONE | KULLU | KULLU | KULLU-I | 3311 | 200008000631 | Medical Superitendent Rh Kullu | MEDICAL SUPERITENDENT RH 175101 | 11-07-24 | 114.960 | 100 | | |
| MANDI ZONE | KULLU | KULLU | KULLU-I | 3311 | 100008002331 | Aepwd . | KULLU,KULLU,KULLU DHALPUR 172701 | 11-07-24 | 236.000 | 70 | | |
| MANDI ZONE | KULLU | KULLU | KULLU-I | 3311 | 200008000604 | Mr. C M O Kullu | HIMACHAL PRADESHHimachal 175101 | 11-07-24 | 326.550 | 100 | | |
| MANDI ZONE | KULLU | KULLU | KULLU-I | 3311 | 100008002332 | Cmo Kullu | KULLU,KULLU,KULLU DHALPUR 172701 | 11-07-24 | 698.000 | 80 | | |
| MANDI ZONE | KULLU | KULLU | KULLU-II | 3312 | 100014000708 | Commandent Itbp | BABELI,BABELI,BABELI BABELI 174510 | 08-07-24 | 146.360 | 100 | | Center Govt. Building |
| MANDI ZONE | KULLU | MANALI | KATRAIN | 3332 | 100012001194 | Dy Director Fishery | KULLU,KULLU,FISHERY FARM 501 175129 | 09-07-24 | 275.400 | 150 | | |

| ZONE NAME | Circle Name | Division Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connected Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|---------------|-------------|---------------|-------------------|----------|--------------|--------------------------|------------------------------------|------------|----------------|--|---|---------|
| HAMIRPUR ZONE | UNA | UNA | UNA-I | 2411 | 100008002442 | Ae Hppwd 11025-9220 Ndnc | UNA,UNA,UNA . 174303 | 06-07-24 | 132.760 | 20 | | |
| HAMIRPUR ZONE | UNA | UNA | UNA-I | 2411 | 100008002433 | The Cmo 21075-0010/ndnc | UNA,UNA,UNA . 174300 | 06-07-24 | 193.440 | 100 | | |
| HAMIRPUR ZONE | UNA | UNA | UNA-I | 2411 | 100008002434 | The Cmo 21080-0430ndnc | UNA,UNA,UNA . 174303 | 06-07-24 | 252.080 | 85 | | |
| HAMIRPUR ZONE | UNA | GAGRET | HAROLI | 2424 | 100008001096 | Bmo . | HAROLI,HAROLI,HAROLI HAROLI 172209 | 10-07-24 | 161.040 | 25 | | |

| | | | | | | | | | | | | |
|------------------|-----|--------|---------------|------|--------------|-------------------------------|--------------------------------------|----------|---------|----|--|--|
| HAMIRPUR ZONE | UNA | GAGRET | TAHLIWAL A | 2425 | 100009002203 | The Gmdic Una Center | BATHRI,BATHRI,VPO BATHU 52 174001 | 20-07-24 | 237.440 | 40 | | |
|------------------|-----|--------|---------------|------|--------------|-------------------------------|--------------------------------------|----------|---------|----|--|--|

| ZONE NAME | Circle Name | Divisio n Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connected Load | Total feasibilit y capacity as per Distt. | current status of RTS Installat ion installed capacity | Remarks |
|----------------------|-------------|----------------------|----------------------|----------|--------------|--------------------------------------|---|------------|-------------------|--|--|---------|
| HAMIR PUR ZONE | BILASPUR | BILAS PUR | BILASPUR- II | 3212 | 200008001029 | Distt. Language Officer,Bilasp | INDOOR AUDITORIUM, NEAR GOVT. 174001 | 12-07-24 | 397.580 | 200 | CGI Roof | |
| HAMIR PUR ZONE | BILASPUR | BILAS PUR | BILASPUR- II | 3212 | 200008001054 | Medical Superintendent, Rh Blp | #N/A | 10-07-24 | 223.400 | 100 | Roof under CGI | |
| HAMIR PUR ZONE | BILASPUR | BILAS PUR | BILASPUR- II | 3212 | 100008002035 | The Chief Office Blp | BILASPUR,BILASPUR ,CIVIL HOSPIT NA 174000 | 09-07-24 | 176.500 | 150 | CGI Roof And Slab | |

| | | | | | | | | | | | | |
|----------------------|----------|--------------|-----------------|------|--------------|-----------|--|----------|---------|-----|----------------------------|--|
| HAMIR PUR ZONE | BILASPUR | BILAS PUR | BILASPUR- II | 3212 | 100008002059 | The Cmo . | BILASPUR,BILASPUR ,CHANGER TRAUMA CEN 174000 | 09-07-24 | 145.200 | 110 | CGI Roof And Slab | |
|----------------------|----------|--------------|-----------------|------|--------------|-----------|--|----------|---------|-----|----------------------------|--|

| Sr. No. | ZONE NAME | Circle Name | Division Name | Sub- Division Name | Location | Consumer ID | Name | Address | Created on | Connecte d Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|---------|----------------|----------------|------------------|--------------------------|----------|--------------|------------------------------------|--|---------------|-----------------------|---|---|---|
| 1 | SHIMLA ZONE | RAMPUR | RECONGPEO | PEO | 1541 | 200014000140 | Principal Jnv Reckong Peo | PRINCIPAL JNV RECKONG PEO 172107 | 06-07-24 | 247.100 | 50 | | Only one electrical meter installed |

| ZONE NAME | Circle Name | Division Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connected Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|--------------|----------------|---------------|----------------------|----------|-------------|------|---------|------------|-------------------|--|--|---------|
|--------------|----------------|---------------|----------------------|----------|-------------|------|---------|------------|-------------------|--|--|---------|

| | | | | | | | | | | | | |
|----------------|-------|-------|---------|------|--------------|----------------------|---|----------|---------|----|--|--|
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 1 | 1211 | 100008001870 | The Chief Officer | SOLAN,SOLAN,SOLAN MDG-1 173212 | 04-07-24 | 291.880 | 25 | | |
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 1 | 1211 | 100008001874 | The Hon'ble Solam | SOLAN,SOLAN,SOLAN JCG-1 173212 | 11-07-24 | 148.880 | 20 | | |
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 1 | 1211 | 100008001872 | The Medical Solam | SOLAN,SOLAN,SOLAN MDG-32 173212 | 04-07-24 | 133.330 | | | |
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 1 | 1211 | 100008001905 | The C M O . | SOLAN,SOLAN,SOLAN SOLAN 171202 | 04-07-24 | 202.880 | 15 | | |
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 3 | 1213 | 100008001946 | Paste Chambaghat | CHAMBAGHAT,CHAMBAGHAT,C HAMBAGH CHAMBAGHAT 173209 | 10-07-24 | 130.360 | 15 | | |
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 3 | 1213 | 100008001936 | Zological . | SOLAN,SOLAN,SOLAN SOLAN 173209 | 10-07-24 | 125.000 | 30 | | |

| | | | | | | | | | | | | |
|----------------|-------|-------|-----------|------|--------------|---|--|----------|---------|----|--|--|
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 3 | 1213 | 100008001939 | The Principal . | SOLAN,SOLAN,SOLAN SOLAN 173209 | 10-07-24 | 113.700 | 30 | | |
| SHIMLA ZONE | SOLAN | SOLAN | SOLAN 3 | 1213 | 200008000526 | Mr. And Mrs. Executive Enginee | HIMACHAL PRADESHHimachal 173213 | 10-07-24 | 137.500 | 25 | | |
| SHIMLA ZONE | SOLAN | SOLAN | KANDAGHAT | 1214 | 100008001977 | State Analist | AGHAT, KANDAGHAT,AGHAT, KANDAG VILL KAND 173206 | 04-07-24 | 188.000 | 15 | | |
| SHIMLA ZONE | SOLAN | SOLAN | KANDAGHAT | 1214 | 200009002770 | Hptdb | #N/A | 11-07-24 | 245.790 | 25 | | |
| SHIMLA ZONE | SOLAN | SOLAN | KANDAGHAT | 1214 | 100020003049 | Jay Pee I T | 2 DOMEHAR, KANDAGHAT,2 DOMEHAR JP STAGE 173206 | 10-07-24 | 167.426 | 20 | | |

| | | | | | | | | | | | | |
|----------------|-------|----------|-----------|------|--------------|--------------------------|---|----------|---------|----|--|--|
| SHIMLA ZONE | SOLAN | SOLAN | KANDAGHAT | 1214 | 100020003048 | Jay Pee I T | 1 DOMEHAR, KANDAGHAT,1 DOMEHAR JP STAGE 173206 | 10-07-24 | 220.628 | 20 | | |
| SHIMLA ZONE | SOLAN | PARWANOO | PARWANOO | 1221 | 100020001722 | The Xen K3-2 | PARWANO,PARWANO,PARWANO O A 173209 | 05-07-24 | 125.790 | 20 | | |
| SHIMLA ZONE | SOLAN | PARWANOO | DHARAMPUR | 1223 | 200008000464 | Director Irl & Std | PO DHARAMPUR DISTT SOLAN,PO DH HP 173209 | 15-07-24 | 170.000 | 20 | | |
| SHIMLA ZONE | SOLAN | PARWANOO | KASAU LI | 1224 | 100008000682 | The Secretery Mi-8 | KASAU LI,KASAU LI,KASAU LI HOLIDAY HO 173201 | 06-07-24 | 113.000 | 30 | | |
| SHIMLA ZONE | SOLAN | PARWANOO | KASAU LI | 1224 | 100014000318 | The Ge Mes Wss | KASAU LI,KASAU LI,K LSD-4 A 173201 | 06-07-24 | 160.000 | 15 | | |

| | | | | | | | | | | | | |
|----------------|-------|----------|------------|------|--------------|-----------------------|--|----------|---------|----|--|--|
| SHIMLA ZONE | SOLAN | ARKI | ARKI | 1231 | 100008000100 | Medical Officer | PHC ARKI, PO ARKI,PHC ARKI, PO SOLAN 173208 | 09-07-24 | 201.400 | 25 | | |
| SHIMLA ZONE | SOLAN | ARKI | KUNIHAR | 1232 | 100008005500 | Chc Syri | #N/A | 18-07-24 | 225.000 | 30 | | |
| SHIMLA ZONE | SOLAN | SOLAN | SUBATHU | 1234 | 100014000820 | Bs-Iv Ge Mes . | SUBATHU,SUBATHU,SUBATHU 14 173200 | 11-07-24 | 112.000 | 20 | | |
| SHIMLA ZONE | SOLAN | SOLAN | SUBATHU | 1234 | 100014000822 | Bs-Viii Ge Mes . | SUBATHU,SUBATHU,SUBATHU 14 173200 | 11-07-24 | 120.000 | 15 | | |
| SHIMLA ZONE | SOLAN | NALAGARH | NALAGARH-I | 1251 | 100003008596 | The B M O Nalagarh | NALAGARH,NALAGARH,NALAG ARH GC/7 174101 | 16-07-24 | 148.350 | 25 | | |

| Circle Name | Division Name | Sub-Division Name | Location | Consumer ID | Name | Address | Created on | Connected Load | Total feasibility capacity as per Distt. | current status of RTS Installation installed capacity | Remarks |
|-------------|---------------|-------------------|----------|--------------|--------------------------------|--|------------|----------------|--|---|--|
| DALHOUSIE | DALHOUSIE | DALHOUSIE | 2311 | 200008000584 | Smo I/c Civil Hospital Dalhous | DALHOUSIE,DALHOUSIE, HIMACHAL PRADESHHimachal 176304 | 06-07-24 | 340.500 | 30 | | Capacity assessed as per roof area available |
| DALHOUSIE | CHAMBA | CHAMBA-1 | 2341 | 200008000770 | Medical Superintendent | Pt.JLNGMC Chamba,PT.JLNGMC CHA HIMACHAL PRADESHHimachal 176310 | 04-07-24 | 225.000 | 60 | | Capacity assessed as per roof area available |
| DALHOUSIE | CHAMBA | CHAMBA-1 | 2341 | 100008001159 | Smo Ayurvedic Hospital Baloo` | CHAMBA,CHAMBA,BALOO 250 KVA AY 176310 | 06-07-24 | 168.000 | 50 | | |
| DALHOUSIE | CHAMBA | CHAMBA-1 | 2341 | 100008001170 | Principal Nehru Mc Chamba | CHAMBA,CHAMBA,HOSPITAL ROAD CHAMBA 176310 | 04-07-24 | 247.600 | 60 | | |
| DALHOUSIE | CHAMBA | CHAMBA-1 | 2341 | 200008000620 | The Principal Pt. Jlngmc Chamb | THE PRINCIPAL PT. JLNGMC 176310 | 04-07-24 | 560.000 | 200 | | |

| | | | | | | | | | | | |
|-----------|-----------|-----------|------|--------------|--------------------------------------|---|----------|----------|-----|-------------------|--|
| DALHOUSIE | CHAMBA | CHAMBA-1 | 2341 | 100008001165 | The Principal | CHAMBA,CHAMBA,MOHALLA SULTANPU CHAMBA 176310 | 04-07-24 | 256.260 | 100 | 25 kW under FC | |
| DALHOUSIE | CHAMBA | CHAMBA-1 | 2341 | 100008001171 | The Principal Chamba | CHAMBA,CHAMBA,MEDICAL COLLEGE CHAMBA 176310 | 06-07-24 | 197.960 | 100 | | |
| DALHOUSIE | CHAMBA | CHAMBA-2 | 2342 | 200008000953 | Govt. Gnm Training School Saro | .,02 176310 | 04-07-24 | 168.656 | 50 | | |
| DALHOUSIE | DALHOUSIE | DALHOUSIE | 2311 | | Age, Army Cantonement board | DALHOUSIE-176304 | | 1500.000 | 200 | | |

For each project, the Bidder quoting the lowest tariff (L1 tariff) will be identified and shall be declared as the Successful Bidder. In case of multiple Bidders quoting the L1 tariff, then the ranking among these Bidders shall be done as follow: a. The Bidder who has the highest Net-Worth for immediately preceding financial year based on audited accounts, shall be considered as L-1. b. If there is also a tie among any of these Bidders, then L-1 will be the Bidder who has quoted the highest CUF as per the Format 7.1 submitted as a part of their bid submission. c. If there is also a tie among any of these Bidders, then draw of lots will be conducted.

