



## **SELCO Foundation – Call for Vendors**

**The Supply, Installation, Commissioning & Maintenance of  
Solar Photovoltaic (SPV) off-grid systems.**

**SELCO Foundation – Procurement Officer**

690, 15<sup>th</sup> Cross Rd, Jeewan Griha Colony, 2<sup>nd</sup> Phase,  
J P Nagar, Bengaluru, Karnataka 560078  
[procurement@selcofoundation.org](mailto:procurement@selcofoundation.org)

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SELCO Foundation hereby invites bids for the Supply, Installation and Commissioning & Maintenance of Solar Photovoltaic (SPV) off-grid systems – for District Vaccine Storage centers in state of Karnataka during the year 2022-2023.

The Tender Estimated value is approximately ₹28 Lakhs (Rupees Twenty Eight Lakhs only)

**<https://selcofoundation.org/tender/>**

The detailed tender document which can be downloaded from 18-01-2023. Bids, as per the terms and conditions should be submitted to the undersigned, at the above-mentioned address by 5 pm on or before 30-01-2023.

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**Chief Executive Officer – SELCO Foundation**

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## **SELCO FOUNDATION**

TENDER NOTIFICATION

FOR

### **SUPPLY, INSTALLATION AND COMMISSIONING & MAINTENANCE OF SOLAR PHOTOVOLTAIC (SPV) OFF-GRID SYSTEMS - FOR DISTRICT VACCINE STORAGE CENTERS IN STATE OF KARNATAKA**

**During the year 2022-2023**

### **TENDER DOCUMENT**

Address for Communication

SELCO Foundation  
#690, 15<sup>th</sup> Cross Rd, J P Nagar – 2<sup>nd</sup> Phase  
Bangalore, Karnataka – 560078  
Telephone: 080-26493145  
E-mail: [procurement@selcofoundation.org](mailto:procurement@selcofoundation.org)

## DISCLAIMER

NIT No: 14/22-23

This tender by SELCO Foundation is for selection of vendors for the work of Supply, Installation and Commissioning & Maintenance of Solar Photovoltaic (SPV) off-grid systems for District Vaccine Storage centers in state of Karnataka during the year 2022-2023.

NOTE:

1. Though adequate care has been taken while preparing the Notice Inviting Tender (NIT) document, the Organizations shall satisfy themselves that the document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Organizations within seven (7) days from the date of notification of Request for solution (RfS)/ Issue of the RfS documents, it shall be considered that the RfS document is complete in all respects and has been received by the Organizations.
2. SELCO Foundation has the right to award the works under this tender to single or multiple vendors and in multiple tranches based on the lowest quote ascertained through this tender.
3. The implementation of Solar Solutions at the said District Vaccination Storage centers is subject to receiving the approval for installation from the District health authorities.
4. SELCO Foundation reserves the right to cancel/ withdraw this invitation for bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision
5. SELCO Foundation reserves the right to modify, amend or supplement this document.
6. While this RfS has been prepared in good faith, neither SELCO Foundation 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 the information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this RfS, even if any loss or damage is caused by any act or omission on their part..

### 1. CONTENTS OF BID DOCUMENT

Section No.	Description	Page No.
Section 1	Bid Invitation	5
Section 2	Instruction to Organizations	6-13
Annexure - 1 & 2	Technical Specifications	14-24

### 2. List of Documents to be Submitted in First Cover (In technical bid)

Table	Description	Page No.
Annexure – 3	Particulars of the organization	25
Annexure – 4	Check list of documents to be submitted in first cover	26

### 3. List of Documents to be Submitted in Second Cover (In financial bid)

Table	Description	Page No.
Annexure – 5	Schedule of Tender	27
Annexure – 6	Price Schedule	28-29

**SELCO FOUNDATION**  
**#690 15th Cross J P Nagar 2nd Phase**  
**Bangalore - 560078**  
**Telephone: 080-26493145**  
**E-mail: [procurement@selcofoundation.org](mailto:procurement@selcofoundation.org)**

Tender: 14/2022-2023

Dated: 18-01-2023

NOTICE INVITATION TENDER

**Chief Executive Officer of SELCO Foundation, Karnataka State, India** hereby invites bids for Supply, Installation and Commissioning & Maintenance of Solar Photovoltaic (SPV) off-grid systems for District Vaccine Storage centers in state of Karnataka during the year 2022-2023.

1.	Tender Ref No.	14/2022-2023
2.	Last date & time for the bid submission	30-01-2023, 5 PM
3.	Opening date of first cover (technical bid) & second cover (financial bid)	31-01-2023, 2 PM
4.	Venue of acceptance and opening of tenders.	SELCO Foundation, Bangalore

Interested and eligible Organizations may furnish the Technical & Commercial Bids for supply, installation and commissioning & Maintenance of Solar Photovoltaic (SPV) off-grid systems for District Vaccine Storage centers in state of Karnataka during the year 2022-2023 to the below-mentioned address:

**Procurement Officer - Tender NO 14/2022-2023**  
#690 15th Cross J P Nagar 2nd Phase  
Bangalore - 560078  
Telephone: 080-26493145  
**E-mail: [procurement@selcofoundation.org](mailto:procurement@selcofoundation.org)**

Any further information or clarification may obtain either in person or through phone during office hours from the office of the SELCO Foundation Ph: 080-2649 3145 or through the email – [procurement@selcofoundation.org](mailto:procurement@selcofoundation.org)

**sd/-**  
Chief Executive Officer  
SELCO Foundation

## **INSTRUCTION TO ORGANIZATION**

### **Schedule of Supply, installation and commissioning:**

Bidder must confirm the schedule of supply, installation and commissioning which is indicated below and same has to be confirmed through duly enclosing Annexure 5

Sl.No.	Scheduled activity	Scheduled activity
1.	Supply starts	10 days
2.	Supply ends	30 Days
3	Installations begins	15 Days
4.	Commissioning of all the system	45 days

Note: Equipment supply can start individually and earlier than scheduled deadline. Grouting the array mount, earthing pit, and Lightning arrester work can start as early as possible. So that installation and commissioning time schedule is reduced and closure of the tender is on time. The Bidder shall complete the supply schedule as per Annexure 6 enclosed in this Bidding Documents. If the bidders wish to visit the site, they may request the same to the Procurement Officer (Selco Foundation).

### **Eligibility to Organizations:**

- I. The bidding organizations require a cumulative turnover of 1 crore for the last two financial years. As proof of this, the bidder must submit the financial statement certified by Chartered Accountant.
- II. Subcontracting the works under this tender will not be permitted without the prior written approval of SELCO Foundation.
- III. The organization should be in operation for the last 3 years in the field of supply, installation and maintenance of Solar Energy Solutions.
- IV. Organization registration certificates or any other proof of incorporation to be submitted to establish the legal status.
- V. The organization should be able to provide excellent service. Complaints on the system should be attended within 3 days and should be resolved within 10 working days of reporting.
- VI. The organization should have its own local office, service center and technicians in Karnataka.
- VII. Solar panels used by the organization should be of a supplier in India and should have manufacturer valid license and evidence for the same has to be provided.
- VIII. Audited Financial Statements for the last 2 years along with Income Tax returns and GST return files should be submitted.
- IX. Organization should submit the valid PAN card & Bank Details.
- X. The organization should submit the self-declaration certificate to declare that the organization is not blacklisted by any entity.
- XI. Documents to establish that the organization has implemented projects of cumulative worth Rs. 50 Lakhs or more in the last two years. In case of organizations not meeting this requirement of cumulative worth of Rs. 50 Lakhs, SELCO Foundation may decide to give a portion of the order to such entities subject to the fact that all other criteria are met. The decision of SELCO Foundation in this regard will be final and binding on such a bidder.
- XII. The quote should include AMC for 5 years with a minimum of 2 scheduled services every year.

**Cost of bidding:**

The Organizations shall bear all costs associated with the preparation and submission of Bid to the Chief Executive Officer, SELCO Foundation hereinafter referred to as “the Purchaser” will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

**The technical proposal shall contain:**

- I. Particulars of the Firm as per **Annexure - 3**
- II. Checklist of Documents to be submitted in First Envelope as per **Annexure -4**
- III. The Organizations has to submit an acceptance letter of guarantee for 5 years for the total performance of the Solar Energy Systems
- IV. The bidder should have a service center facility in Karnataka.
- V. The Organizations have to sign all the pages of the documents as a token of acceptance of all terms and conditions.

**The financial bid shall contain:**

The rate quoted for Solar Energy Solutions in different geographies. The rate quoted should include all taxes levied by the State & Central Govt. Packing, and forwarding charges including transportation, loading & unloading, installation & commissioning.

**Price schedule:**

The Organizations shall complete the price schedule as per **Annexure 6 - PRICE SCHEDULE** furnished in the Bidding Documents, indicating the total cost towards supply and installation. The SELCO Foundation will not pay any extra charges over and above the rate quoted by the Organizations.

**Fixed price:**

Prices quoted by the Organizations are firm and final and binding and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

**Period of Validity of Bids:**

Bids shall remain valid for a period of 12 months from the date of opening of the Second Envelope (Financial Bid). A Bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

**Format and Signing of Bid:**

The Organizations **shall give a set of hard copies of all the documents** on the sealed cover. The Bids could be submitted by hand or post/courier to the below-mentioned address

**Procurement Officer - Tender No 14/2022-2023**  
SELCO Foundation, #690, 15th Cross, 2nd Phase,  
JP Nagar, Bengaluru- 560078,  
Email id: [procurement@selcofoundation.org](mailto:procurement@selcofoundation.org)

**Deadline for Submission of Bids:**

Bids must be received by the Purchaser not later than the time and date specified in the **Invitation for Bids**. The Purchaser may, at its discretion, extend this deadline for submission of the bid by amending the bid Documents in which case all rights and obligations of the Purchaser and Organizations previously subject to the deadline will thereafter be subject to the deadline as extended.

**Tender Opening:**

The Technical & Financial bids will be opened on the same day itself or later separately. The financial bids (Second Cover), of only technically qualified Organizations, will be opened. The Organizations Names, Bid Modifications, or Withdrawals, bid prices, Discounts and the presence or absence of the requisite details as the Purchaser, at its discretion, may consider appropriate will be recorded by the

Purchasing Committee of SELCO Foundation. No Bid shall be rejected at bid opening, except for late bids, which will be rejected.

**Clarification of Bids:**

During evaluation of Bids, SELCO Foundation may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing only

**Preliminary Examination:**

The purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

Arithmetical errors will be rectified on the following basis. If there is a discrepancy between words and figures, the lowest of the two shall prevail and the bid shall stand corrected to that effect. The purchaser may waive any minor infirmity or non- conformity or irregularity in a bid, which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Organizations.

**Acceptance or rejection of bids:**

**CEO**, SELCO Foundation reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability or any obligation to inform the affected Organizations or Organizations of the grounds for the said action. Any Bid with incomplete information is liable for rejection.

**Terms and Conditions of the Contract**

1. **Duration:** The agreement will be valid for 05 years (60 months) from the date of completion of the supply, installation and commissioning of Solar Photovoltaic (SPV) off-grid systems. The maintenance will commence from the date of completion of installation of the solar system and will be effective for a period of 05 (five) years. The end date of this agreement will be Sixty (60) months after the date mentioned in supply, installation and commissioning reports that will be subsequently annexed to this agreement and will form an integral part of this agreement.
2. **Prices:** Prices provided by the Contractor, and accepted by the Foundation shall be considered as final and firm and will not be subject to escalation due to any variations in the prices of materials, labour and/or any other reasons which may occur while the order is being carried out (except any increase in costs due to a change in applicable taxes or other such regulations which shall be passed on to the Foundation). The Project Costs are inclusive of taxes, transport, installation & Maintenance. The costs mentioned here do not include replacement of spares while servicing.
3. **Payment Terms:**

For the supply, installation, commissioning and comprehensive maintenance of Solar Photovoltaic (SPV) off-grid systems payment will be released in 03 payment tranches.

  - a. The 1<sup>st</sup> tranche of payment will be 30% paid along with the work order;
  - b. The 2<sup>nd</sup> tranche of payment will be 30% and will paid against the supply of materials to all District Storage Centers with evidence of delivery note certified by the District Storage Center Authority/Foundation representative.
  - c. The 3<sup>rd</sup> and final tranche of payment will be 40% and will paid on receipt of completion certificate along with location wise/system wise confirming installation letter (from contractor) and hand over letter from the Health center authority and certification of satisfactory working condition of the solar system by Heath Centre authority and Foundation representative.



- d. Any taxes and charges such as TDS that will have to be deducted from the WO amount as per the rules in force at the time of release of payment will be done by the Foundation and the Contractor will be paid only the net amount.
- e. The Contractor should submit the progress report to the Associate Director – Scale Programs, SELCO Foundation who will approve the invoice for payments based on the project performance and stages of completion.
- f. The Contractor has to provide installation certificate for each location mentioning the date of commissioning make & serial no. of each material (Solar panels, PCU, Battery etc.), and Photographs of the system installed before disbursement of the final installment.

**4. Insurance:**

- a. Insurance shall be arranged by the Contractor till the products/components are delivered in full to the end point and installation is completed.
- b. Material safety after delivery: Arrangement of transport, warehouse for stocking and safekeeping of the material till the handover is within the contractor's scope of work and Foundation will not be responsible for any missing item or damage that is incurred before the system is handed over to the Health Center authority.
- c. Accidental damage for supplied items or to delivery staff or installation staff is the responsibility of the contractor and the contractor will ensure insurance coverage and damage to service staff in case of any accidents during the course of this engagement with the Foundation.

**5. Inspection, Checking, Testing:**

The products covered by the Work order shall be subject to inspection within a reasonable time after arrival at the place of delivery and the contractor must facilitate this process by fixing time informing foundation in advance and making contractor representative available at the location. Besides, the Foundation is also entitled to do a preliminary inspection at the manufacturing site of the Contractor by giving prior notice.

The Contractor shall provide free access to the Foundation during normal working hours at Contractor's or its sub-Contractor's works and place at their disposal, internal test reports, material/component test certificates, approved drawings. Even if inspections and tests are fully carried out, Contractor shall not be absolved to any degree from their responsibilities to ensure that products supplied, comply strictly with requirements of the Work order and technical specification at the time of delivery, inspection on arrival at site, installation and commissioning and warranty/guarantee period.

In any case, the products supplied must be strictly in accordance with the Work order and the technical specification specified by the tender failing which the Foundation shall have the right to reject goods and hold the Contractor liable for non-performance of contract.

**6. Packing:**

Contractor is fully responsible for adequately packing products/components mandated in the tender and ensuring appropriate packing suitable for inland carriage and ensuring complete safety of goods from any kind of damage during transport and subsequent storage at the Health Centre authority.

**7. Assembly, Pre-installation survey, Installation, after sales service and training:**

- a. The Contractor shall be fully responsible for the assembly of the product at the destination site and completeness of the Project as per the Work order.
- b. The successful bidder/contractor must carry out a pre installation survey at his cost so that the contractor will have a clear idea on logistics to reach materials, estimating the ease of material movements, pre installation preparations etc.
- c. The contractor must ensure proper insulators, appropriate height and necessary grout for lightning arresters up to grounding. Any deviation has to be brought to the notice of the foundation and written/ email acceptance must be availed before adopting the deviation.
- d. The Contractor shall be fully responsible for getting the materials for grouting/preparation for foundation wherever required, curing of the grouting before installing. Contractor cannot hand over this part of the work to an unskilled labourer or person in charge at the health center.
- e. Contractor should provide training on basic maintenance of the solar system to the designated Health center staff.
- f. Danger Boards should be provided as and where necessary as per IE Act, posters for DOs and DON'Ts need to be provided. At array, battery bank, distribution box, Inverter/PCU etc.
- g. The Contractor shall provide necessary "After Sales Service" at site for a period of 5 years. Contractor must keep a log book at each site /to be maintained at each system location and the contractor representative must record the service done/complaint recorded /resolution done /instructions if any.
- h. Any Complaints on the system have to be resolved within 5 to 10 working days of lodging complaint.
- i. Complaints will be lodged using SMS/WhatsApp messenger app/email or a phone call and the contractor must provide the appropriate active contacts like phone number/email ID/WhatsApp number for lodging complaints.
- j. Active contact numbers will be displayed at the site prominently for registering any complaints on the performance of the product.
- k. The Contractor has to submit a plan of servicing to the foundation before the release of final payment. The contractor will arrange a minimum of two (2) visits per year to the site for maintenance for a period of five (5) years and submit a report to the Foundation on the servicing with a functioning status of each site every six months.

**8. Delivery terms:**

- a. Successful bidder will be provided a detailed written communication on site address, system to be installed and a brief site profile for installation and necessary contacts
- b. The delivery of the said products will be to the Heath Centre authority as per the list provided by the Foundation in writing. No variation shall be permitted, except with prior authorization in writing from the Foundation.
- c. Delivery Schedule and terms will be as per the WO. In case of a delay solely attributed to the contractor in meeting the said deliverables, the Contractor shall be liable to pay a late fee at the rate of 2% per week beyond a period of 30 days and up to a maximum of 10% of the value of this Agreement.

**9. Risk Purchase on Default:**

In case of default on the part of the Contractor to supply all the products or part thereof covered by the contract as per the standard/specifications within the contractual delivery period stipulated in the contract, the Foundation shall have the right to purchase such products or other of similar description at the risk and cost of the Contractor. Contractor shall

be liable to pay the cost of such purchase products and also the penalty under clause 8 above for resultant delay.

**10. Delay due to force majeure:**

If any time during the continuance of the Agreement the performance in whole or part by either party on any obligation under the contract shall be prevented or delayed by reason of any war, hostility, explosions, epidemics, quarantine restrictions, or other acts of God, then provided, notice of the happening of any such event is given by either party to the other within fifteen (15) days from the date of occurrence thereof, neither party shall be reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. Force Majeure conditions shall not affect the payment obligations of the Foundation which shall be made as per clause 3 of this Agreement.

**11. Rejection, Removal of Rejected Goods and Replacement:**

In case the testing and inspection at any stage by inspectors reveal that the product, material and workmanship do not comply with the agreed specifications and requirements, the same shall be removed by the Contractor at his/its own expenses and risk within 15 to 20 working days of information of rejection by the Foundation. The Foundation shall be at liberty to dispose of such rejected goods in such manner as they may think appropriate, in the event the Contractor fails to remove the rejected goods within the period as aforesaid. All expenses incurred by the Foundation for such disposal shall be to the account of the Contractor. The freight paid by the Foundation, if any, on the inward journey of the rejected material shall be reimbursed by the Contractor to the Foundation before the rejected materials are removed by the Contractor. The Contractor will have to proceed with the replacement of that product or part of the product without claiming any extra payment if so, required by the Foundation, within 2 weeks of notification.

**12. Warranty:**

The Contractor shall warrant that every material/product to be supplied shall be in accordance with the specifications agreed upon by both parties. The items should be consistent with the established, recognized or stipulated standards for material of the type usually used for the purpose and in full conformity with the specifications and drawings or samples, if any, outlined by the Foundation in the tender documents and agreed upon by the Contractor by the virtue of acceptance of the WO by the contractor. Products offered must withstand normal operating conditions. The warranty shall continue notwithstanding inspection, payment, acceptance of tendered product and shall expire except in respect of complaints notified to Contractor prior to such date within 60 months from the date of commissioning. The warrant will be according to manufacturer's warranty policies.

**13. Performance Guarantee:**

The Contractor shall guarantee that any/all material used in execution of the Work Order shall be in strict compliance with characteristics requirements and specifications agreed upon. The Contractor shall guarantee that all material and products shall be repaired or replaced, as the case may be, at his own expense in case the same have been found to be defective in respect of material, workmanship for smooth and rated operation within a period of 60 months from the date of commissioning. Acceptance by the Foundation of any product and materials or their replacement will not relieve the Contractor of his/its responsibility concerning the above guarantee. In case of any legal case against the Foundation by any ultimate user of the product with respect to the performance of the system (during the warranty period), the Contractor should support the Foundation with required and relevant technical testing and reports

supporting the performance of the product and to defend that the non-performance of the product is not because of any manufacturing defect.

The warranty replacements during the first year will be made within 15 to 20 working days from the date of receipt of the Complaint at the site.

**14. Indemnity:**

The Contractor shall at all times indemnify the Foundation against all claims which may be made in respect of stores for infringement of any right protected by patent, registration of design or trademark. Provided always that in the event of any claim in respect of alleged breach of patent, registered designs or trademark being made against the Foundation, the Foundation shall notify the Contractor of the same and the Contractor shall at his own expense either settle any such dispute or conduct any litigation that may arise there from.

**15. Other Clauses:**

- a. The Contractor will treat all information given under this agreement as information with proprietary value and will not disclose the same to competitors or any outsiders. Contractor will not at any time, except under legal process, divulge any trade or business secret relating to the Foundation or any customer or agent of the Foundation, which may become known by virtue of the position as Contractor, save in so far as such disclosure shall be necessary in the interest and for the benefit of the said Foundation and will be true and faithful to the Foundation in all dealings and transactions whatsoever relating to the said Project.
- b. Either party may terminate this contract forthwith in the event of any fraud or misconduct on part of the other party; the Foundation may terminate this contract in the event of delay in supply/ installation of the products by the Contractor beyond 15 days from what is stipulated in the WO or the Contractor may terminate in the event of 3 consecutive delays of 15 days from what is agreed to between the parties in making payment to the Contractor in the absence of justifiable reasons intimated by writing. Any notice to be given hereunder shall be sufficiently given to the other party if forwarded by registered post or by Courier Service to the registered address of the other party mentioned in this agreement or the last known postal address of the other party. Upon the termination of this contract, the Contractor shall refund the entire amount paid by the Foundation. The Contractor shall deliver all deeds, documents and paper in his possession relating to the business of the Foundation.
- c. Both the Foundation and the Contractor fully and freely intend to create an independent Contractor relationship under this Agreement. Nothing herein shall be deemed to establish a partnership, joint venture, association or employment relationship between the parties. Both parties agree that the Contractor has sole and exclusive control over the manner and means employed in performing their activities under this Agreement in matters that are not specifically discussed and agreed upon between the parties to this Agreement.
- d. The Foundation represents and warrants that (a) it has the full right and authority to enter into this Agreement, and no consent or authorization not obtained prior to the Effective Date is necessary to be obtained, (b) the Foundation is a charitable trust registered under the laws of India and is authorized to do business to the extent necessary to fulfill its obligations hereunder.
- e. Except as specifically set forth in this Agreement, neither party makes any representation or warranty of any kind, express or implied, including without limitation any warranty of merchantability, any warranty of fitness for a particular purpose or use, any warranty of non-infringement, or any other statutory warranty. Each party expressly disclaims any and all implied warranties.

- f. This agreement shall not be amended or renewed, except in writing mutually agreed by both parties. The project shall be fully completed as agreed in the above-mentioned terms and conditions.
- g. Notwithstanding anything else to the contrary: -
- Contractor's total aggregate liability under this Agreement shall not in any case exceed 100% of the value of this Agreement;
  - neither party shall be liable for any indirect, consequential, special, remote, exemplary, punitive or speculative losses or any losses or damages for loss of profits or business even if such party has been advised of the possibility of such costs or damages; and
  - The Contractor shall have no liability for matters outside of its own scope of works.
- h. This Agreement along with the WO contains the entire terms of agreement between the Parties and supersedes any previous oral or written understandings, commitments or agreements pertaining to the subject matter. This Agreement may not be amended, assigned nor any obligation waived, except by in writing signed by both Parties.
- i. In the event that any or any part of the provisions contained in this Agreement is determined to be invalid, unlawful or unenforceable to any extent, such provision shall be severed from the remaining provisions which shall continue to be valid and enforceable to the fullest extent permitted by law.
- j. The Foundation shall not either directly or indirectly assign, transfer, charge or in any manner make, offer or purport to assign, transfer or charge this Agreement or any rights herein or any part thereof without the previous consent in writing of the Contractor.
- k. Governing Law and Arbitration:
- The Parties agree that this Agreement shall be governed and construed in accordance with the laws of India. The Parties hereto agree that they shall use all reasonable efforts to resolve between themselves any disputes, controversy or claim arising out of or relating to this Agreement. If the Parties fail to resolve the matter within the 30 days of occurrence of any despite, such dispute, controversy or claim shall be settled by binding arbitration under the Indian Arbitration and Conciliation Act, 1996. There shall be one arbitrator mutually appointed by the Parties. The place of arbitration shall be Bangalore and the arbitration proceedings shall be in English. The courts at Bangalore alone shall have the jurisdiction to entertain and, or try any dispute arising out of or in connection with or in relation to the terms of this Agreement.

## ANNEXURE 1: TECHNICAL SPECIFICATIONS OF SOLUTIONS

### 1. District Vaccine Storage Center Chamarajanagar :

#### Bill of Materials:

Sl. No	Products	Capacity	Qty	Unit
1	Solar Module - 5S, 4P	335 Wp, 24 V	20	Nos
2	Solar Battery - 8S, 2P	200 Ah, 12 V, C10 (Battery terminal caps used, must be big enough to cover the entire terminal area and the nut bolt assembly. Also, spring washers to be used at each battery terminal)	16	Nos
3	MMS - for tin roof (Regular)	335 Wp, 1M (M.M.S should consist of both front and back legs to support the panels. G.I - M.M.S is preferred)	20	Nos
4	Solar Inverter	7.5 kVA, 6 kW, 96 V	1	Nos
5	Cables red + black (M-M)	4 Sq.mm. (UV protected cable)	80	M
6	Cables red + black (B-B) (B-I)	16 Sq.mm. (Tin-coated copper lugs with insulation to be used at each battery terminals)	24	M
7	Cables red + black (M-B)	16 Sq.mm	50	M
8	Earthing Cable (AJB, GIPB, Battery Rack & PCU)	10 Sq.mm (Tin-coated copper lugs with insulation to be used at the cable-earth electrode interface ).	40	M
9	Earthing Kit- (AJB, LPS, GIPB, Battery Rack)	Chemical earthing powder, solid copper electrode, tin-coated copper lugs with insulation, clamps with nut-bolts assembly. protective concrete (Chamber) construction to earthing pit (L x B x H - 1.5 x 1.5 x 1.5 feet) with Metallic/FRP lid should be made.	4	SET
10	Grid Input Protection Box	with SPD and 32 A MCB	1	Nos
11	Battery rack	200 Ah X 16 Nos (2 rack of 4 batteries) with insulation mat	2	Nos

12	Solar AJB with MCB & SPD	4 IN, 1 OUT	1	Nos
13	Double pole MCB (Load side) with conduit box	16 A, 230 Vac	1	Nos
14	Lighting Protection System with Down Conductor and insulation	Lightning arrester kit: (All Copper - Air terminal rod, lightning arrestor and base plate). Air terminal rod should be of 1.5 m long. Ceramic insulation to be provided at the lightning arrestor base plate. Elevation pipe (Anodized aluminum) to be of 3 m height.	1	SET
15	Load Bypass Switch	50A, 230Vac	1	Nos
16	Consumables	As required	1	Nos
17	Preparation of SLD's - Sunboard 3 mm Thickness		1	nos
18	Do and Dont's Board with service contact details - Sunboard 3 mm Thickness	Content will be provided from Foundation	1	Nos
19	Civil works	As required	1	

Load Wiring to be done for the excluded loads (i.e. Autoclave, Sterilizer, Geyser, Air conditioner, Air coolers etc.) from the solar system design. Costing will be considered based on actual installation.

\*MMS need to be customized if the roof is tin sheet/ needs to be ground mounting.

## 2. District Vaccine Storage Center Haveri :

### Bill of Materials:

Sl. No	Products	Capacity	Qty	Unit
1	Solar Module - 5S, 4P	335 Wp, 24 V	20	Nos
2	Solar Battery - 8S, 2P	200 Ah, 12 V, C10 (Battery terminal caps used, must be big enough to cover the entire terminal area and the nut bolt assembly. Also, spring washers to be used at each battery terminal).	16	Nos
3	MMS - for tin roof (needs customized)	335 Wp, 1M	20	Nos

		(M.M.S should consist of both front and back legs to support the panels. G.I - M.M.S is preferred)		
4	Solar Inverter	7.5 kVA, 6 kW, 96 V	1	Nos
5	Cables red + black (M-M)	4 Sq.mm. (UV Protected Cable)	80	M
6	Cables red + black (B-B)(B-I)	16 Sq.mm. (Tin-coated copper lugs with insulation to be used at each battery terminals).	24	M
7	Cables red + black (M-B)	16 Sq.mm	50	M
8	Earthing Cable (AJB, GIPB, Battery Rack & PCU)	10 Sq.mm (Tin-coated copper lugs with insulation to be used at the cable-earth electrode interface ).	40	M
9	Earthing Kit- (AJB, LPS, GIPB, Battery Rack)	Chemical earthing powder, solid copper electrode, tin-coated copper lugs with insulation, clamps with nut-bolts assembly. protective concrete (Chamber) construction to earthing pit (L x B x H - 1.5 x 1.5 x 1.5 feet) with Metallic/FRP lid should be made	4	SET
10	Grid Input Protection Box	with SPD and 32 A MCB	1	Nos
11	Battery rack	200 Ah X 16 Nos (2 rack of 4 batteries)	2	Nos
12	Solar AJB with MCB & SPD	4 IN, 1 OUT	1	Nos
13	Double pole MCB (Load side) with conduit box	16 A, 230 Vac	1	Nos
14	Lighting Protection System with Down Conductor and insulation	Lightning arrester kit: (All Copper - Air terminal rod, lightning arrestor and base plate). Air terminal rod should be of 1.5 m long. Ceramic insulation to be provided at the lightning arrestor base plate. Elevation pipe (Anodized aluminum) to be of 3 m height.	1	SET
15	Load Bypass Switch	50A, 230Vac	1	Nos
16	Consumables	As required	1	
17	Preparation of SLD's -	Sunboard 3 mm Thickness	1	nos



18	Do and Dont's Board with service contact details - Sunboard 3 mm Thickness	Content will be provided from Foundation	1	Nos
19	Civil works		1	SET

Load Wiring to be done for the excluded loads (i.e. Autoclave, Sterilizer, Geyser, Air conditioner, Air coolers etc) from the solar system design. Costing will be considered based on actual installation.

\*MMS need to be customized if the roof is tin sheet/ needs to be ground mounting.

### 3. District Vaccine Storage Center Koppal :

#### Bill of Materials:

Sl. No	Products	Capacity	Qty	Unit
1	Solar Module - 10S, 3P	335 Wp, 24 V	30	Nos
2	Solar Battery - 20S, 1P	200 Ah,12 V (Battery terminal caps used, must be big enough to cover the entire terminal area and the nut bolt assembly. Also, spring washers to be used at each battery terminal).	20	Nos
3	MMS - for tin roof (needs customized)	335 Wp, 1M (M.M.S should consist of both front and back legs to support the panels. G.I - M.M.S is preferred)	30	Nos
4	Solar Inverter/ PCU	12.5 kVA, 10 kW, 240 V	1	Nos
5	Cables red + black (M-M)	4 Sq.mm. (UV Protected Cable)	120	M
6	Cables red + black (B-B) (B-I)	25 Sq.mm. (Tin-coated copper lugs with insulation to be used at each battery terminals).	20	M
7	Cables red + black (M-B)	10 Sq.mm	20	M
8	Earthing Cable (AJB, GIPB, Battery Rack & PCU)	10 Sq.mm (Tin-coated copper lugs with insulation to be used at the cable-earth electrode interface ).	40	M
9	Earthing Kit (AJB, LPS1,LPS2 GIPB, Battery Rack)	Chemical earthing powder, solid copper electrode, tin-coated copper lugs with insulation, clamps with nut-bolts assembly. protective concrete (Chamber) construction	5	SET

		to earthing pit (L x B x H - 1.5 x 1.5 x 1.5 feet) with Metallic/FRP lid should be made		
10	Grid Input Protection Box	with SPD and MCB	1	Nos
11	Battery rack	200 Ah X 20 Nos (2 rack of 5 batteries with insulation mat)	2	Nos
12	Solar AJB with MCB & SPD	3 IN, 1 OUT	1	Nos
13	Double pole MCB (Load side) with conduit box	32 A, 230 Vac	1	Nos
14	Lighting Protection System with Down Conductor and insulation	Lightning arrester kit: (All Copper - Air terminal rod, lightning arrestor and base plate). Air terminal rod should be of 1.5 m long. Ceramic insulation to be provided at the lightning arrestor base plate. Elevation pipe (Anodized aluminum) to be of 3 m height.	2	SET
15	Load Bypass Switch	50A, 230Vac	1	Nos
16	Consumables	As required	1	
17	Preparation of SLD's	Sunboard 3 mm Thickness	1	Nos
18	Do and Dont's Board with service contact details - Sunboard 3 mm Thickness	Content will be provided from Foundation	1	Nos
19	Civil works		1	SET

Load Wiring to be done for the excluded loads (i.e. Autoclave, Sterilizer, Geyser, Air conditioner, Air coolers etc) from the solar system design. Costing will be considered based on actual installation.

\*MMS need to be customized if the roof is tin sheet/ needs to be ground mounting.

## ANNEXURE 2- TECHNICAL SPECIFICATIONS OF COMPONENTS

The proposed project shall be commissioned as per the technical specifications given below. Any shortcomings or deviations may lead to the cancellation of the Letter of Award, and in such a case the Competent Authority's decision will be final and binding on the bidder.

### 1. SOLAR PV MODULE:

- a. The PV modules used must qualify to the latest edition of the IEC PV module qualification test.
- b. The total solar PV array capacity should not be less than the allocated capacity and should comprise solar crystalline modules of minimum Wp mentioned in the bill of materials. Module capacity less than minimum mentioned Wp in the BoM / Purchase Order shall not be accepted.
- c. PV modules must be tested and approved by one of the IEC authorized test centers. The module frame shall be made of corrosion-resistant materials, preferably anodized aluminum.

### 2. MODULE WARRANTY:

Module Warranty is defined as: The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (5) years from the date of sale to the original customer

- a. Defects and/or failures due to manufacturing.
- b. Defects and/or failures due to quality of materials
- c. Non-conformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the supplier's sole cost

### 3. Performance Warranty

The degradation of power generated by the module shall not exceed 20% of the minimum rated power over the 25-year period and not more than 10% after the first ten years period.

### 4. Preferred Make

Waaree, Adani, TATA Solar, EMMVEE, VIKRAM SOLAR, RENEWSYS, Premier Energies.

Self declaration of a specific one that Make will be used should be submitted.

Bidder has to take prior approval from the Foundation with sufficient certifications if other brands (MNRE Approved/Empaneled) than the above specified are considered by the bidder.

### 5. MODULE MOUNTING STRUCTURE (MMS):

- a. Hot dip galvanized M.S/ anodized aluminum of size not less than 50 mm x 50 mm x 6 mm size (for legs) and other square tubes of 2 mm thick (Rafter and Purlin) shall be used for mounting the modules/ panels/arrays. Each structure should have an angle of inclination as per the site conditions to take maximum irradiation.
- b. For a Flat roof R.C.C installation, the MMS should be a minimum 2-legged structure (1 front leg, 1 back leg) and many such leg pairs to exist along the length of the MMS, (Maximum distance between each row pair should be 6 ft) . Each leg of M.M.S shall have a base plate at its bottom. The base plate at each leg should be of the size 150\*150\*6 mm. The base plate should have four stiffeners. Each stiffener will be placed perpendicular to the side of the base plate. The base plate should house four wedge anchors at each corner. The steel wedge anchors used should be 2-3 inches long (Depending upon the RCC roof thickness).
- c. The M.M.S should be designed such, it safely not only withstands the total panel weight but also withstand the high wind loads acting over it.
- d. The PV panels should be clamped to M.M.S only at the allowable points along the panel frame, which is specified by the panel manufacturer. Each panel should be clamped to the purlins using 4 clamps (2 clamps on each opposite sides of the panel). The clamps used should be of minimum 35\*3 mm size and that of anodized aluminum. The distance

between the end clamp and the end of the rail (purlin end) should be minimum 25 mm long.

- e. All panels and MMS should be grounded together with grounding bolts.

**Cyclone prone zones, high altitude-high wind zones (Particularly for flat RCC roof):**

Additional measures should be taken to install PV panels at such high-risk zones. Installations at such sites should have a low-elevation panel set-up made, along with “landscape” orientation of PV panels (This would require a custom-made MMS viz triangular MMS frame/short legged MMS, preferably made with G.I). The PV panels should be mounted over the MMS using the “clamping” method only. Anodized clamps of 45\*4 mm size should be used here.

The structure shall be designed to allow easy replacement of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels. Installation of solar structures should not damage the roof in any way. If any concrete or foundation is required, it should be precast type.

Fixed tilt systems, south facing with 24-26 degree inclined towards north should be followed despite whatever roofing type is. This range is indicative and will depend on the actual location.

The structure also should be able to withstand wind speed of 200 - 250 km/h.

Bidders must follow any of the three types of roof mounting options and the solution is dependent on the type of roof at the location. a) Flat roof, b) standing seam c) Shingle roof. In all cases, considerations must be made for the roof's age, structural integrity, access to equipment, and necessary setbacks for fire and life safety requirements.

The MMS should be mounted to the RCC roof using wedge anchor fasteners and a concrete block of L x W x H = 1.5 x 1.5 x 1.5 feet respectively at each leg of the MMS. The sides of the cube and roof interface should be given a simple 1-inch filet construction. At the top side of the cubes, an upward taper should be formed from cube sides towards M.M.S leg.

**6. DC COMBINER BOX/ARRAY JUNCTION BOX:**

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-bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification. The AJB should be placed in a shaded place, preferably at the mid-end of the MMS legs. IP67 grade AJBs should be used.

**7. BATTERY:**

The battery type proposed: Tall tubular lead acid battery.

- a. All the batteries capacities mentioned are at a C/10 rate of discharge and the same should also be followed by the bidder. The preferred voltage of each battery is 12 V due to better space utilization. However, bidders quoting for battery banks with 2V cells or other capacities should add a justification note as annexure to why the particular voltage was opted for. The technical committee will consider this and take a decision on the suitability of such an option. The decision of the technical committee/technical member of the buyer on this matter will be final and binding on the bidder.
- b. Battery should conform to the latest BIS/ International standards. A copy of the relevant test certificate for the battery should be furnished.
- c. The battery should be warranted for a minimum of 5 years.
- d. The battery should be installed inside the premises of consumers on a battery rack. The rack material size should be able to easily bear the battery load.
- e. The battery rack should be of fireproof material and corrosion free (GI rack is preferable).

- f. Acid absorbent mats should be provided below the battery (On the top row in case of 2-row rack). The non-reactive acid proof mat should be provided at the floor space of the battery bank.
- g. Tin-coated copper lugs (Ring type) with insulation to be used at cable ends to connect each battery terminal.
- h. Spring washers to be incorporated in the nut-bolt assembly at each battery terminal.
- i. Battery terminal caps used, should be big enough to cover the entire terminal area and the nut bolt assembly.
- j. At each battery terminal, petroleum based Vaseline coating should be applied.
- k. All cables connecting batteries should be provided "conduit pipe" protection and tied to the outer sides of the battery body using cable ties.

**Preferred Make:**

Exide, Luminous, HBL, Amaron, Okaya.

Self-declaration of a specific one that Make will be used should be submitted.

Bidder has to take prior approval from the Foundation with sufficient certifications if other brands than the above specified are considered by the bidder.

**8 Single Phase Solar PCU:**

The power conditioning unit should be provided to convert DC power produced by SPV modules, into AC power. The power conditioning unit/inverter should be Off-Grid type.

Typical technical features of the PCU shall be as follows:

Power conditioning unit with inbuilt charge controller of capacity & ratings as specified in the below for various capacities of Solar Power Plants should convert DC power into AC power. Preference will be given to power conditioning units conforming to standards IEC 61683.

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

In case of inverters with low ground clearance (smaller capacity inverters), a minimum of 3-inch elevation for the same should be incorporated. The elevating means should be a fireproof material (Leg bushes are preferable).

**8.1 The PCU will have the following features:**

- A. IGBT based MPPT charging
- B. Inverter efficiency should be more than 85%
- C. Output voltage 230 V, +/-3% f modified/ pure sine wave for single phase.
- D. Output frequency: 50 Hz, +/- 0.5 Hz
- E. Capacity of PCU is specified at 0.8 lagging power factor
- F. THD: less than 3%
- G. Maximum Efficiency: >85%.
- H. Ambient Temp 50 degree Celsius (max.)
- I. Operating humidity 95% maximum

**8.2 Protections:**

- A. Over voltage (automatic shutdown)
- B. Under voltage (automatic shutdown)
- C. Overload - Short circuit (circuit breaker & electronics protection against sustained fault)
- D. Over Temperature
- E. Battery, PV reverse polarity

### 8.3 Indicators

- a. Array on
- b. MPPT charger on
- c. Battery connected, charging
- d. Inverter ON
- e. Load on solar/ battery
- f. Grid charger on
- g. Load on Grid
- h. Grid on
- i. Fault

### 8.4 Display Parameters

- a. Charging current
- b. Charging voltage
- c. Voltage of PV panels
- d. Output voltage
- e. Grid voltage
- f. Inverter loading (kW) & Energy Generation (kWh)
- g. Output frequency
- h. Fault / fault code

### 8.5 Cooling: cooling mechanism required - Air Cooled

### 8.6 Preferred Make: MNRE Approved/ Empaneled

Self declaration of a specific one that Make will be used should be submitted.

## 9. PROTECTIONS

The system should be provided with all necessary protections like earthing, lightning protection.

### 9.1 LIGHTNING PROTECTION

The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc. The entire space occupying the SPV array shall be suitably protected against lightning by deploying the required number of lightning arresters.

To increase the coverage area of protection, the lightning arrester should be given an additional elevation by using anodized aluminum pole. The height of the lightning arrester point should be minimum 3 meters above the height of the panels set. Insulation should be provided between the lightning arrester and the elevation pole. Down conductor should be provided with saddle insulation along its length.(i.e. from the lightning arrester till the earthing pit). Not more than 1m gap should be maintained between two saddle insulators. Down conductors should maintain 0.5 m distance from panels, arrays and other power cables around.

The lightning arrester setup should always be vertical and should be stable against high wind loads. The lightning arrester setup should be provided with anchor fasteners along with civil work made at its base plate. A concrete cube (Civil work) of 1.5 ft x 1.5 ft x 1.5 ft (L x B x H) dimensions should be set. If required, support wires should be used for additional stability of the lightning arrester. The lightning arrester should be placed preferably at the back of the array and at the sides, with a separation distance of 0.5 meters only.

The entire lightning arrester set up (Air terminal pole, spikes and base plates should be of solid copper)

### 9.2 EARTHING

Earthing is a way of transmitting any instant electricity discharge directly to the ground by providing a low resistance path (using electrical cables wires with no joints or metal strips with

lesser joints). This instant electricity discharge is mostly in the form of lightning, surge voltages entering through grid lines and due to fault current/leakage current in the system . The goal is to protect the appliances from voltage surges and protect the users from the risk of electrocution due to leakage/fault current in the system.

- Earthing type - Chemical Earthing
- Earth electrodes should be that of solid copper.
- Earth pit should be 1 foot by diameter and 4 ft by depth.
- Separate earthing should be provided for these components: Lighting arrester, A.J.B, Grid input protection box and Inverter.
- Minimum of 3 m distance between each pit must be maintained and 1.5 m from building foundations and sumps.
- Should not combine AC earthing & DC Earthing.
- Earthing pits should have a chamber set above the ground and should be closed with a metallic lid/FRP lid.
  
- Proper cable-to-rod & strip-to-rod clamps should be used.
  
- Clamp materials should be that of copper alloys.

## **10. CABLES**

Cable size as mentioned in the bill of materials to be used in the project shall have the following characteristics:

- Temperature range: -10°C to +80°C.
- Excellent resistance to heat, cold, water, oil, abrasion, UV radiation
- Flexible

Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be selected to keep the voltage drop (power loss) of the entire Project to the minimum. The cables (as per IS) should be insulated with a special grade PVC compound formulated for outdoor use.

The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e., twenty-five (25) operational years.

Cable ends should be crimped to cable lugs thoroughly using appropriate lugs. This lug interface has to be Insulated.

Tin-coated copper cable lugs with respect to cable sizes should be used and they should be of required current ratings.

Conduit pipe protection to be given to cables connecting 1. Battery to battery, 2. Battery to inverter, 3. All cables entering the inverter.

DC cables from the PV array and earthing cables should be given outdoor PVC (CPVC/UPVC) pipe protection. DC cables entering the conduit pipes from the panel should be protected from the rainwater with Sealing Gel.

Cable Tie for Outdoor application should be UV resistant.

Outdoor “L” bend pipes to be used wherever the cables pass through sharp edges/roof edges/angles in the wall.

### **Load wiring:**

Load wiring is to be redone in case of damaged (or) faulty wiring detected (Multiple cross connections/power tapping). If in case, load wiring is not available at the health center, then a new load wiring must be done for the energy efficient devices (Solar loads - Critical medical equipment, luminaires and fans only) which are being installed in the center. For a new load

wiring proper solid conduit pipe protection should be provided. Cables of appropriate size should be used. Cable color coding should be followed. Provision should be made during the wiring such that solar power is not consumed by heavy loads and non-critical equipment in the center.

a. **Preferred Make:** Polycab, Finolex, Havells, RR Kabels, KEI.

#### **11. TOOLS & TACKLES AND SPARES:**

After completion of installation & commissioning of the power plant, necessary tools & tackles shall be maintained by the successful bidder for maintenance purposes at the local service center.

#### **12. SAFETY MEASURES:**

The bidder shall take entire responsibility for electrical safety of the installation(s) and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc

#### **13. LUMINARIES AND ACCESSORIES**

**Preferred Make:**

LED Bulbs/Tubes: Havells, Phillips, Syska, Eveready, Wipro,

Ceiling Fan : Usha, Havells, Atomberg, Orient, Super Fan, Arizon.

Exhaust Fan: Orient, Panasonic, Havells, Bajaj.

#### **14. OPERATION AND MAINTENANCE MANUAL**

An operation, instruction and maintenance manual in English and/or local language should be provided along with the solar system. The following minimum details must be provided in the manual:

- Basic principles of photovoltaics.
- A block diagram on Solar PV System - Showing interconnection of its components viz PV modules, batteries, inverters & Charge controls and loads.
- A small write up on expected performance of the SPV systems.
- A list of the loads (luminaire and medical equipment) that are connected to the solar PV system.
- A separate list of heavy loads which are never to be connected to the system.
- A list containing specification details of panels, batteries, P.C.U., showing type of the model used, model number, voltage & current capacity
- A list of total numbers of items (Solar panels, battery, inverter, earthing pits, lightning arresters, luminaries, fans and medical equipment) that are provided to the center.
- Significance of audio and visual indicators of the solar PV system.
- Clear instructions on regular maintenance and troubleshooting of the solar PV System.
- A list of DOs and DON'Ts practices while handling the solar PV system.
- Name, address and contact details of the customer care service/service provider for repair complaints and scheduled & unscheduled maintenance services.



### ANNEXURE 3 - DETAILS OF THE ORGANIZATION

(Enclose separate sheets as necessary and in this checklist indicate yes or no)

1	Name and address of the Bidder (With pin code)	
2	Year of starting the organization	
3	Registration number (photocopy of registration certificate or any other relevant document to be enclosed)	
4	Name and Contact number of the Proprietor or Point of Contact	
5	Status of Supplier- Proprietorship / Partnership/ Pvt Ltd / Limited/others	
6	GSTIN (Copies of certificates to be enclosed)	
7	PAN No. (Copies of certificates to be enclosed)	
8	Is organization MSME registered? If Yes then Registration no. (copies of certificates to be enclosed)	
9	Particulars of Physical Infrastructure and total strength of staff available in the organization relating to Supplier/supply/testing etc.,	
10	Bidders Bank details	

Signature of the bidder and address with seal

Date:

#### ANNEXURE 4 – CONFIRMATION ON ENCLOSURES

Sl.No.	Description	Whether the Document is enclosed or not	Page No. From and to
1	Details of Organization as per Table – 1	YES/NO	
2	Copies showing the legal status, places of registration and principal place of business of the firm	YES/NO	
3	Copies of audited financial statements for the last 02 years - 2020-21, 2021-22	YES/NO	
4	Copies of GST registration and GST returns filed in the last 2 financial years- 2021-22, 2020-21/2022-23	YES/NO	
5	Copies of income tax returns filed in the last 2 financial years – 2020-21, 2021-22	YES/NO	
6	Copy of PAN Card should be submitted	YES/NO	
7	Evidence of existence (GST Registration) of local offices in Karnataka.	YES/NO	
8	Copy of MEME Registration should be submitted	YES/NO	
9	Letter of declaration to confirm that the bidder has not been black listed by any entity or institution	YES/NO	
10	Documents to prove implemented projects of cumulative worth Rs. 50 Lakhs or more in the last 2 financial years – 2021-22, 2022-23	YES/NO	
11	Bidder's bank details	YES/NO	
12	Signed, sealed copies of Annexure 1, 2, 3, 4,5 and 6	YES/NO	
13	Data Sheets/Brouchers of PV Module, Battery & Invertor and charge controllers has to be submitted	YES/NO	
14	Self-Declaration of Specific Make of PV Module, Battery & Inverters and charge controllers that will be used for the project has to be submitted	YES/NO	

I abide by all the above terms & conditions.

SIGNATURE OF THE BIDDER and with office seal

PLACE:

DATE:

## ANNEXURE 5- SCHEDULE OF TENDER

Regarding Supply, installation and commissioning

Sl.No.	Scheduled activity	Within days (no.of days)	Accepted Schedule by date
1.	Supply starts after WO	10 days	
2.	Supply ends	30 Days	
3	Installations begins	15 Days	
4.	Commissioning of all the system	45 days	

I abide by all the commitments accepted & conditions.

SIGNATURE OF THE BIDDER and with office seal

PLACE:

DATE:

## ANNEXURE 6 - PRICE SCHEDULE

### PARTICULARS TO BE SUBMITTED IN THE FINANCIAL BID (SECOND COVER).

**PRICE SCHEDULE FOR THE SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF OFF-GRID SOLAR ENERGY SOLUTIONS FOR DISTRICT VACCINE STORAGE CENTERS IN STATE OF KARNATAKA.**

#### **Rates quoted by the bidder:**

- a. The rates should be mentioned item wise clearly both in words and figures Item-wise details of rates quoted.
- b. Rates should be inclusive of GST.
- c. Rates should be inclusive of AMC from Year 2 to 5 but separately mentioned.
- d. Data Sheets/Brouchers of PV Module, Battery & Invertor and charge controllers has to be submitted.
- e. Rates should include an average transportation cost for supply of solution category in the region of operation of the Organizations.

**Table 1: Cost of Solar BoM**

SI No	Quote for Option	Price in Rs/unit of solar System	AMC cost for years 2 to 5 (in Rs)
1	District Vaccine Storage Center Chamarajanagar		
2	District Vaccine Storage Center Haveri		
3	District Vaccine Storage Center Koppal		
	<b>TOTAL Cost</b>		

**Total Cost in Words: Rupees**

**CONDITIONS:**

If our tender is accepted, we hereby undertake to abide as per the stipulated Terms and Conditions to supplier and supply, installation and maintenance of solar energy-based solutions.

We agree to abide by this tender and if the work is awarded to us, in executing the above contract we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of corruption act 1988".

We understand that you are not bound to determine the price based on the lowest offer that Foundation may receive.

We accept that all disputes between parties will be adjudicated by a competent court in Bangalore, India.

I, \_\_\_\_\_ (Name of signatory) on behalf of the bidder \_\_\_\_\_ (Name of the bidder), hereby certify that I have noted the technical specifications of solutions mentioned in Annexure 1, and the technical specifications for components mentioned in Annexure 2 and the prices quoted above are as per the details specified and in compliance with Annexure 1 and 2.

Dated this..... day of.....2023

Signature (Name and Address of the Tender with seal) (In the capacity of.....  
..... Duly authorized to sign the Tender for and on behalf of \_\_\_\_\_)