



SELCO Foundation – Call for Vendors

Supply and Installation of Solar Direct Drive Vaccine Refrigerators

SELCO Foundation – Procurement Officer

690, 15th Cross Rd, Jeewan Griha Colony, 2nd Phase,
J P Nagar, Bengaluru, Karnataka 560078
procurement@selcofoundation.org

SELCO Foundation hereby invites bids to Supply and Installation (including training) of a Solar Direct Drive (SDD) Vaccine Refrigerator with Deep Freezer (Combo) – in 5 Health Centers of Chamarajanagar District, Karnataka during year 2022 to 2023.

The Tender Estimated value is Approximately ₹ 25,00,000/- (Rupees Twenty-Five Lakhs Only)

The link for the tender is:

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

which can be downloaded from 28th December 2022

Bids, as per the terms and conditions should be submitted to the undersigned, at the address mentioned above by 5 pm on or before 16th January 2023.

Chief Executive Officer – SELCO Foundation



SELCO FOUNDATION

TENDER NOTIFICATION

FOR

**SUPPLY AND INSTALLATION (INCLUDING TRAINING) OF SOLAR
DIRECT DRIVE (SDD) VACCINE REFRIGERATOR AND DEEP FREEZER
(COMBO) IN 5 HEALTH CENTRES OF THE CHAMARAJANAGAR
DISTRICT, KARNATAKA**

TENDER DOCUMENT

Address for Communication

SELCO Foundation
#690, 15th Cross Rd, J P Nagar – 2nd Phase
Bangalore, Karnataka – 560078
Telephone: 080-26493145
e-mail: procurement@selcofoundation.org

DISCLAIMER

NIT No: 12/2022-23

This tender by SELCO Foundation is for selection of vendors to supply and installation of Solar Direct Drive (SDD) Vaccine Refrigerator and Deep Freezer (combo) in 5 health centres of the Chamarajanagar district, Karnataka.

NOTE:

1. Though adequate care has been taken while preparing the Notice Inviting Tender (NIT) document, the bidder 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 bidder 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 bidder.
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. Bidders can send the quotations Completely or Partially.
4. The installation of Solar Direct Drive (SDD) Vaccine Refrigerator and Deep Freezer (Combo) at the said Health centres is subject to receiving the approval for installation from the local health authorities.
5. 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
6. SELCO Foundation reserves the right to modify, amend or supplement this document.
7. 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..

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SELCO FOUNDATION

#690 15th Cross J P Nagar 2nd Phase

Bangalore - 560078

Telephone: 080-26493145

e-mail: procurement@selcofoundation.org

Tender: 12/2022-2023

Dated: 28-12-2022

NOTICE INVITATION TENDER

Chief Executive Officer of SELCO Foundation, Karnataka State, India hereby invites bids to supply and installation (including Training) of Solar Direct Drive (SDD) Vaccine Refrigerator and Deep Freezer (combo) in 5 health centres of the Chamarajanagar District, Karnataka

1.	Tender Ref No.	12/2022-2023
2.	Last date & time for the bid submission	16-01-2023, 5 PM
3.	Opening date of first cover (technical bid) & second cover (financial bid)	17-01-2023, 11 AM
4.	Venue of acceptance and opening of tenders.	SELCO Foundation, Bangalore

Interested and eligible bidder may furnish the Technical & Commercial Bids for supply and installation (including Training) of Solar Direct Drive (SDD) Vaccine Refrigerator and Deep Freezer (combo) in 5 health centres of the Chamarajanagar District, Karnataka to the below-mentioned address:

SELCO FOUNDATION - Tender NO 12/2022-2023

#690 15th Cross J P Nagar 2nd Phase

Bangalore - 560078

Telephone: 080-26493145

e-mail: 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

sd/-

Chief Executive Officer
SELCO Foundation

INSTRUCTION TO BIDDER

Eligibility Criteria for Participating in the Bidding:

- I. The bidder should be in operation for the last 3 years in the field of supply, installation, and maintenance of Solar Direct Drive Vaccine Refrigerator and Deep Freezer.
- II. The bidder should submit the following document along with the Tender.
 1. Registration Certificate issued by the competent authority.
 2. Valid manufacturing license issued by the competent authority or authorized Dealer Certificate whichever is applicable.
 3. List of the Authorized Distributor or Representative in the state of Karnataka Chamarajanagar region. who shall conduct the business responsibility of the Manufacturer (if tender submitted by the manufacturer).
 4. Company Profile relevant to the item supply along with Product literature/Specifications.
 5. Products must be AERB/BIS / CE / US FDA / IEC etc. certified & relevant certificates from the original Equipment Manufacturer have to be submitted while applying.
 6.
 - a. At least 3 similar contracts completed during the last 5 years.
 - b. Should have manufactured or marketed the specific goods covered in the bid documents for at least 2 years.
 - c. The bidder shall provide proof of experience with & knowledge of modes of packaging distribution and transportation of such items under monsoon conditions.
 7. Up to date Professional Tax/GST/Income Tax/GST Clearance certificate.
- III. Bidder should submit the valid PAN card.
- IV. The bidder should submit the self-declaration certificate to declare that the bidder is not blacklisted.
- V. The bidder should be able to provide excellent service. It is expected that complaints will be attended to within 72 hrs of lodging. The bidder should provide a list of service centres or contact points in the Chamarajanagar district / state of Karnataka.
- VI. Declaration by the bidder that they will be able to execute the order before 20th February 2023
- VII. The bidder should submit the documents to establish that the bidder has implemented projects of cumulative worth 01 crores or more in the last two years.

Cost of bidding:

The bidder 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 bidder must submit an acceptance letter of guarantee for 5 years for the total performance of the Solar Direct Drive (SDD) Vaccine Refrigerator and Deep Freezer (Combo)
- IV. The bidder has to provide the nearest local service centre details, preferably in Chamarajanagar district.
- V. The bidder must 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 supply and installation. The rate quoted should include all taxes levied by the State & Central Govt. Packing, and forwarding charges including transportation, loading & unloading, installation and annual maintenance contract for 5 years.

Price schedule:

The Organisations shall complete the price schedule as per **Annexure 6 - PRICE SCHEDULE** furnished in the Bidding Documents, indicating the total cost towards the supply and installation (including training) of Solar Direct Drive (SDD) Vaccine Refrigerator and Deep Freezer (combo) in 5 health centres of the Chamarajanagar district, Karnataka and Maintenance for 5 years. The SELCO Foundation will not pay any extra charges over and above the rate quoted by the Bidder.

Fixed price:

Prices quoted by the bidder 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. The quotation will remain valid for a period of 12 months from the date of opening the second envelope (financial bid).

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 bidder **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

SELCO Foundation - Tender No 12/2022-2023

#690, 15th Cross, 2nd Phase,

JP Nagar, Bengaluru- 560078,

Email id: 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 bidder 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 bidder, will be opened. The bidder 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, the purchaser may, at its discretion, ask the Organisations for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substances of the Bid shall be sought, offered or permitted

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 Organisations.

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 bidder or bidders 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 5 years (60 months) from the date of completion of the installation and commissioning of the Project. The maintenance and service will commence from the date of completion of installation of the project and will be effective for a period of 5 (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 bidder, 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, and 5 years maintenance service which will include minimum two visits to the sites per year. The costs mentioned here do not include replacement of spares while servicing.

3. **Payment Terms:** The above cost will be paid in 03 instalments.

1st instalment of 50% will be paid along with the WO.

2nd and final instalment of remaining 50% will be paid after the delivery of the materials at the Health Centres and submission of material delivery note duly signed by the Health Centre authority /Foundation representative and submission of installation completion certificate and hand over letter from the Health Centre authority and certification of satisfactory working condition of the medical equipment by Health Centre authority and Foundation representative.

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 bidder will be paid only the net amount. The bidder 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 completion.

4. **Insurance:** Insurance shall be arranged by the bidder till the products are supplied to the end point and installation is completed. Arrangement of transport, warehouse for stocking and safekeeping of the material till the handover is within the bidder'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 respective Health centre representative. The bidder will ensure insurance coverage and damage to service staff by way of any accidents during the course of this engagement with the Foundation for providing the services covered under this agreement.

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. Besides, the Foundation is also entitled to do a preliminary inspection at the manufacturing site of the bidder by giving prior notice. The bidder shall provide free access to the Foundation

during normal working hours at bidder'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, the bidder shall not be absolved to any degree from their responsibilities to ensure that products supplied, comply strictly with requirements of the Work Order 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 failing which the Foundation shall have the right to reject goods and hold the bidder liable for non-performance of contract.

6. **Packing:** The products shall be dispatched by the bidder adequately packed in appropriate packing which should be suitable for inland carriage and ensure complete safety of goods from any kind of damage during transport and subsequent storage at the health centre.
7. **Assembly, Installation, after sales service and training:** The bidder shall be fully responsible for the assembly of the product at the destination site and completeness of the Project as per the Work Order. The bidder shall provide necessary "After Sales Service" at site for a period of 5 years as agreed upon by the Parties. Any Complaints on the equipment will be resolved within 5 to 10 working days of reporting. Installation will be done as per the standards agreed upon. Active contact numbers will be displayed at the site for registering any complaints on the performance of the product. The bidder will submit a plan of servicing to the foundation before the release of final payment. The bidder 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.
8. **Delivery terms:** The delivery of the said products will be to the Health centres as per the list provided by the Foundation in writing and agreed by the bidder. The time and delivery date as agreed between the Foundation and bidder shall be the essence of the contract. No variation shall be permitted, except with prior authorization in writing from the Foundation.

Late delivery (LD) clause with corresponding penalty clause will be applicable at 2% per week beyond a period of one month. Delivery Schedule and terms will be as per the WO.

9. **Risk Purchase on Default:** In case of default on the part of the bidder 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 bidder. The bidder shall be liable to pay the cost of such purchase products and 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 bidder 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 bidder 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 bidder. The freight paid by the Foundation, if any, on the inward journey of the rejected material shall be reimbursed by the bidder to the Foundation before the rejected materials are removed by the bidder. The bidder 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 bidder 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 bidder by the virtue of acceptance of the WO by the bidder. 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 bidder 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 bidder 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 bidder 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 bidder 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 bidder 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 bidder 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 bidder of the same and the bidder shall at his own expense either settle any such dispute or conduct any litigation that may arise there from.

15. **Other Clauses:**

- a. The bidder will treat all information given under this agreement as information with proprietary value and will not disclose the same to competitors or any outsiders. Bidder 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 bidder, 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 bidder beyond 15 days from what is stipulated in the WO or the bidder 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 bidder. 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 bidder shall refund the entire amount paid by the Foundation. The bidder shall deliver all deeds, documents and paper in his possession relating to the business of the Foundation.
- c. Both the Foundation and the bidder 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 bidder 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 fulfil 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: -
 - (1) Bidder's total aggregate liability under this Agreement shall not in any case exceed 100% of the value of this Agreement;
 - (2) 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
 - (3) The bidder 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 bidder.
- 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 dispute 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

VACCINE REFRIGERATOR WITH DEEP FREEZER:

1. Solar Direct Drive Vaccine Refrigerator with Freezer.
2. Vaccine Storage capacity: 55-65 L.
3. Water Pack storage capacity: 14 -18 L.
4. Grade A freeze protection complied
5. Refrigerant: R290/R600a – CFC free gas: zero/negligible ozone-depleting potential and very low global warming potential.
6. Operating temperature range: +5oC to +43oC.
7. Autonomy: at least 05 days.
8. Refrigerator Compartment: Entire chamber remains within an acceptable temperature range of +2oC to +8oC.
9. Corrosion resistance: Outer cabinet is made of Galvanised mild steel.
10. The Refrigerator Compartment contains 2 wire shelves for Storing vaccines.
11. The freezer Compartment should be able to hold 24 Water/Ice Packs.
12. Display Thermometer: PQS pre- qualified Digital temperature Recorder with Alarm System with 30 days temperature history preferably with RMS.
13. Additional Surge Protector.
14. Minimum 30 m cable to be provided for the solar panel to SDD refrigerator connection.

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 aluminium.

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

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.

MODULE MOUNTING STRUCTURE (MMS):

- a. Hot dip galvanized M.S/ anodized aluminium 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 aluminium. 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.

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 Aluminium /cast aluminium alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JB's shall be such that input & output termination can be made through suitable cable glands.

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.

INSTALLATION, OPERATIONS AND MAINTENANCE MANUAL Contents:

- Health and safety guidelines,
- Basic operations description,
- Cool-down time instructions to assure both acceptable temperatures and full autonomy is achieved, and Routine maintenance tasks (e.g. daily, weekly, and monthly).
- Correct handling to avoid component damage and for the safety of handling persons,
- Solar array site shading assessment tools and procedures,
- Electrical wiring diagram, SLD
- Installation & Commissioning procedure,
- Do's & Don'ts
- Technical maintenance tasks (e.g. daily, weekly and monthly),
- Periodic preventative maintenance procedures,
- Diagnostic and repair procedures,
- Itemised list of spare parts including part numbers,
- End-of-life resource recovery and recycling procedures, and
- User training guidance.

Printed user and routine maintenance instructions specifically directed at the health centre or store staff must be pictorial. All key information must be summarised on a single sheet that can be fixed onto the appliance cabinet at time of installation. The sheet should be sufficiently durable to last the life of the appliance and must be in a locally-understood language. Installation, repair and servicing instructions must be supplied in printed format and optionally on DVD and/or online, to instruct the installation technician in installation standards and practices specific to the appliance and its power system. In addition, supporting video material supplied on DVD and/or online can be supplied to assist the instructor when delivering on-site user training.

TRAINING

Specific user training must be provided to the responsible, on-site appliance user. User training conducted by installers at time of installation is recommended. The legal manufacturer is required to provide specific user training instructions to enable an instructor (e.g. installation technician, health worker supervisor) to provide product specific user instructions to the responsible, on-site appliance user. Optional training courses are to be offered by the qualified supplier or a designated representative.

Training should contain:

- Effective use of the refrigerator on critical & non-critical situations
- Operation of the appliance & entire system
- Basic maintenance
- Do's & Don'ts
- Logging service complaints & scheduled maintenance call

ANNEXURE 2

List of health centres for THE SUPPLY AND INSTALLATION (INCLUDING TRAINING) OF SOLAR DIRECT DRIVE (SDD) VACCINE REFRIGERATOR AND DEEP FREEZER (COMBO) IN 5 HEALTH CENTRES OF THE CHAMARAJANAGAR DISTRICT, KARNATAKA

Indicative list of Health Centres is attached. However, the sites are subject to change further to the site survey. SELCO Foundation will have the complete right on the selection of health Centres.

Sl.No	Type of Health Centre	Name of Health Centre	Taluk
1	Primary Health Centre	Meenya Health Centre	Hanur
2	Primary Health Centre	M.M Hills Health Centre	Hanur
3	Primary Health Centre	Ponnachi Health Centre	Hanur
4	Primary Health Centre	Bedaguli Health Centre	Chamarajanagar
5	Primary Health Centre	Mangala Health Centre	Gundlupet

ANNEXURE 3

DETAILS OF THE ORGANIZATIONS

1	Name and address of the bidder (With pin code)	
2	Year of starting the organization & registration number	
3	Name and Contact number of the Proprietor or Point of Contact	
4	Status of bidder- Proprietorship / Partnership/ Pvt Ltd / Limited/others	
5	GSTIN No.	
6	PAN No.	
7	Experience of Supplier/supplier relating to supply of solar energy-based solutions (supporting certificates to be enclosed)	
8	Particulars of Physical Infrastructure and total strength of staff available in the organization relating to Supplier/supply/testing etc.,	
12	Bidder 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 Annexure –3	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 2 financial years	YES/NO	
4	Copies of GST registration and GST returns filed in the last 2 financial years	YES/NO	
5	Copies of income tax returns filed in the last 2 financial years	YES/NO	
6	Copy of PAN Card should be submitted	YES/NO	
7	Acceptance to give 5 years guarantee for trouble free operation and maintenance.	YES/NO	
8	Letter of declaration to confirm that the Organisations has not been black listed by any entity or institution	YES/NO	
9	Bidder bank details	YES/NO	
10	Signed, sealed copies of Annexure 1, 2, 3, 4,5 and 6	YES/NO	
11	Documents to establish that the implemented projects of cumulative worth 01 crores or more in the last two years.	YES/NO	
12	Attached AERB/BIS / CE / US FDA / IEC etc. (valid BIS / CE / US FDA / IEC certificate etc.) certifications from the manufacture.	YES/NO	
13	Data Sheets/Brochures of Equipment's quoted has to be submitted	YES/NO	

I abide by all the above terms & conditions.

SIGNATURE OF THE BIDDER and with office seal

PLACE:

ANNEXURE 5- SCHEDULE OF TENDER

Regarding Supply and installation

Sl. No.	Scheduled activity	Within days (No. of days)	Accepted Schedule by date
1.	Supply starts after WO	15 days	
2.	Supply/Installation of refrigerators' & training	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 AND INSTALLATION (INCLUDING TRAINING) OF SOLAR DIRECT DRIVE (SDD) VACCINE REFRIGERATOR AND DEEP FREEZER (COMBO) IN 5 HEALTH CENTRES OF THE CHAMARAJANAGAR DISTRICT, KARNATAKA

Rates quoted by the Bidder:

- The rates should be mentioned item wise clearly both in words and figures Item-wise details of rates quoted.
- Rates should be inclusive of GST.
- Rates should be inclusive of AMC from Year 2 to 5 but separately mentioned.
- Data Sheets/Brochures of Equipment's have to be submitted.
- Rates should include an average transportation cost for supply of solution category in the region of operation of the Organisations.

Table 1: Cost of Medical Equipment

Quote for Medical Equipment	No of Equipment	Price in Rs/unit of Solar Direct Drive Vaccine Refrigerator (SDD) and Deep Freezer (Combo)	Grand Total for 5 Machine	AMC cost for years 2 to 5 (in Rs) per unit
SOLAR DIRECT DRIVE (SDD) VACCINE REFRIGERATOR WITH DEEP FREEZER (COMBO)	05			

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 and installation of Solar Direct Drive (SDD) Vaccine Refrigerator with Deep Freezer (Combo) 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 Organisations _____ (Name of the Organisations), hereby certify that I have noted the technical specifications of solutions mentioned in Annexure 1, the prices quoted above are as per the details specified and in compliance with Annexure 1.

Dated this..... day of.....2022/2023

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