



Title	<u>Republished</u> - Technical Advisory for Climate-Smart Cooling Solutions for Vulnerable Urban Communities in Bhubaneswar
Timeline	08 months
Expected area of expertise	<p>The consultancy firm should have the following expertise:</p> <ul style="list-style-type: none"> • Market research and technology assessment • Vendor mapping and evaluations • Familiarity with implementations of cooling solutions for heat stress • Working with urban vulnerable population • Need assessment, baseline and monitoring tools • Documentation and creating outreach materials
Apply Link	<p>https://forms.gle/J7WdyZA5fTD1QtSG7 (Apply to Procurement Form Link)</p>
Last Date for Apply	27th September, 2025

About SELCO Foundation

SELCO Foundation is an open-source, not-for-profit organization that engages in field-based R&D and ecosystem building for the deployment of clean energy solutions that alleviate poverty by improving access to sustainable energy to underserved communities in tribal, rural, and urban poor areas. The organization works in collaboration with practitioners in the social sector, energy entrepreneurs, NGOs from various developmental sectors, and educational institutions to link the benefits of sustainable energy to poverty eradication. The organization works across verticals such as energy access, health, and livelihoods with practitioners in the social sector, energy entrepreneurs, and partners from various developmental sectors. You can find more information about the SELCO Foundation on our organization's website. (Read more about SELCO here: <http://www.selcofoundation.org/>)

1. Background

Bhubaneswar is increasingly vulnerable to heat, with rising temperatures posing serious risks to health, livelihoods, and productivity, especially for vulnerable population such as street vendors, micro-businesses, Institutions. These communities often lack access to affordable, efficient cooling options, leaving them exposed to heat stress.

To address this, SELCO Foundation aims to identify and implement climate-smart, affordable, and context-appropriate space cooling solutions that can enhance living conditions in these settings. The study will involve market research of active and passive cooling technologies, technology assessment based on feasibility, affordability, and suitability, vendor mapping and evaluation, support for solution selection and awareness efforts. A qualified consultancy agency is being engaged to lead this effort by providing technical research, strategic advisory, and coordination support. The outcomes will guide the implementation of scalable, community-responsive cooling interventions in Bhubaneswar.



2. Aim & Objectives

Aim: The objective of this study is to identify, evaluate, and support the selection and implementation of climate-smart, affordable, and efficient cooling solutions to address heat stress for urban vulnerable communities in Bhubaneswar. This includes solutions for urban poor livelihoods like street vendors, small/micro-businesses, Institutions- Anganwadi centres, Primary Health Centers, Community centres etc.

The objectives of the study are:

- To assess and map the available active and passive cooling solutions (Space & Storage), including their technical, financial, and operational characteristics relevant to urban vulnerable settlements.
- To build a database of vendors and solution providers, along with preliminary evaluations to support selection.
- To raise awareness among end-users (e.g., street vendors, micro-businesses and Institutions) through targeted outreach materials such as posters, and presentations on cooling solutions.
- To assist in developing selection criteria for end-users and intervention sites to ensure suitability, impact, and sustainability of the solutions.
- To recommend tailored cooling solutions for each selected site or user group based on need assessment and market analysis.
- To establish a baseline and monitoring framework for evaluating the performance and effectiveness of implemented solutions over time.
- To assist in the implementing the shortlisted solutions and post implementation training of the shortlisted solutions
- To document and catalogue the selected cooling interventions, highlighting their technical specifications, use cases, and suitability.
- To identify and align with relevant government schemes and policies that support the adoption and scaling of cooling interventions.
- To synthesize findings and recommendations into a comprehensive final report outlining lessons learned, impacts, and potential scaling.

3. Scope of Work

The selected consultancy agency will be responsible for the following:

a. Solution Market Research and Mapping

- Identify and evaluate passive and active cooling solutions for the target user group. Map relevant vendors and manufacturers. Evaluation should consider technical, financial, and operational characteristics relevant to vulnerable urban settlements. The type of solutions should include: Space & storage cooling solutions in workspaces (micro businesses, micro industries), space cooling for public institutions (Anganwadi, health centres, community centres)
 - Passive cooling solutions can include cool roofing, radiative cooling films, cool carts, clean cooling storage, etc.
 - Active cooling solutions can include Air Conditioner's. Coolers, chargeable cool storage solutions, etc.
 - Storage solutions for perishable materials like vegetables, flowers, milk, etc. for street vendors and microbusiness
- Exposure visits to the selected communities are critical at this stage to understanding the target user groups.



b. Solution Awareness and Engagement with End Users

Develop communication materials and assist to build awareness among end-users about the cooling solutions. To build awareness among target user groups on the need and impact of cooling solutions identified through the market research, solution awareness campaigns, FGDs and other events will be organized by SELCO Foundation and other stakeholders. The identified solutions need to be presented to the community in the form of presentations, brochures, posters, etc. The consultancy is expected to support in creating the collaterals required for these engagements.

c. Need Assessment

Design tools to assess the specific needs of target users and develop selection criteria for sites to test the identified solutions. The need assessment tool will then be administered by SELCO and other stakeholders involved among the target user groups. Selection of implementation sites will consider the selection criteria set by the consultancy.

d. Finalizing Solutions to Suit Individual Interventions

- Recommend appropriate cooling solutions tailored to user needs and specific intervention sites based on assessment findings. The assessment data will be shared by SELCO Foundation.
- Visits to shortlisted sites are recommended prior to finalizing the solutions

e. Support in Impact evaluation of implemented sites

- In order to test and evaluate the solution impact, a comprehensive evaluation framework considering baseline, midline and endline data collection needs to be developed. This evaluation should consider key impact indicators like:
 - Health & wellbeing, productivity, income and energy optimization for livelihoods
- Health & Wellbeing, productivity, reduced operational costs, energy optimization for public institution. The tools required for data collection needs to be developed along with the framework. (includes baseline, midline, endline questionnaire)

f. Create a Catalogue of the Solutions

Compile a catalogue of the solutions and document intervention details for each implementation site. This will include detailed technical specifications, clear dos and don'ts for the implementation process, and a step-by-step guide for execution, wherever applicable.

g. Implementations and Post implementation training

Assisting Selco Foundation in the implementation of selected solutions and post-implementation training to end users to ensure effective adoption and utilization. Support will be extended in designing solutions wherever required, along with on-site monitoring of the implementation process to maintain quality and compliance. Also support the team in identifying and capacity building the champion contractors and vendors for the new designs/solutions. Also, support the post implementation training for the implemented solutions.

h. Documentation, Reporting, and Stakeholder Presentation

Prepare a comprehensive final report summarizing the approach, the different activities undertaken in the project, results, tools, lessons learned, and present key insights to stakeholders.



4. Key Deliverables & Timelines

No.	Details	Deliverables	Timeline
1	Inception Report	a) Work plan, methodology and detailed timeline. b) Create templates for solution mapping and vendor mapping (excel or any suitable formats)	2 nd week of Oct 2025
2	Solution Market Research and mapping, Vendor mapping	a) Report on market research & Mapping of passive cooling solutions (space and storage) for street vendors, micro-businesses, Institutions for Bhubaneswar. Analysis of technical specs, performance, costing, affordability, O&M, use cases, possibilities of integration of solar and any other relevant parameters with recommendations. A minimum of total 10 solutions identified for the interventions covering three typologies: street vendors, small/micro businesses, and institutions. The report should also include benchmarking of 5 passive cooling solutions that have worked within and outside of India (including context under which they work, tech, design, cost, dissemination model, impacts and contexts which enabled scale) - at least 5 solutions benchmarked b) Database of the vendors, manufacturers, and solution providers; including vendor profiles with preliminary evaluations	Oct - Nov 2025
3	Solution Awareness and engagement with end users	a) Provide relevant information on the cooling solutions for the foundation to develop communication materials to build awareness among end-users.	Oct – Dec 2025
4	Need assessment	a) Design tools to assess the specific needs of target users and develop selection criteria for sites to test the identified solutions	Oct – Dec 2025
5	Finalizing solutions to suit the individual interventions	a) Recommendation report with all the relevant details on the finalized solution from the list to suit the individual intervention planned based on the selected sites and market research	Oct – Dec 2025

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6	Baseline & Monitoring plan and framework	a) Develop a Baseline tool and monitoring, evaluation framework to support in monitoring plan of the implementation. This evaluation should consider key impact indicators: thermal comfort performance enhancement & energy optimization	Oct - Dec 2025
7	Procurement of the solution	a) Assist in getting the quotation from the vendors for the finalized/ mapped solution	Nov 2025 - Mar 2026
8	Implementation & Training	<p>a) Report on the support and assistance in implementation of the selected solutions (A min of 3 – 4 solutions) and post implementation training to the end users on the solutions</p> <p>i. Support in design of the solutions (wherever required)</p> <p>ii. Monitoring of the implementation on site</p> <p>iii. Identifying suitable contractors, masons, etc. for the implementation</p> <p>iv. Capacity building local contractors, masons and other implementing agencies for replication of solutions in the region</p> <p>v. Post implementation training to the end users for the O&M</p>	Dec 2025- Apr 2026
9	Catalogue of the solutions and the intervention sites	<p>a) Report containing all the site details with details on interventions</p> <p>b) Catalogue of solutions with relevant details like technical specifications, designs, costs, O&M, implementation process, and a step-by-step guide for execution, wherever applicable.</p>	Feb-Apr 2026
10	Documentation, Reporting and Stakeholder presentation	<p>a) Submitting a comprehensive final report summarizing the approach, the different activities undertaken in the project, results, tools, lessons learned, and present key insights, learnings and recommendations</p> <p>b) Final presentation summarizing key findings, insights, and recommendations.</p>	May 2026

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11	Knowledge Partner Support	a) Report on Co-design and execution of knowledge sessions with practitioners, including recommendation, briefing of practitioners and documentation of learnings through the knowledge sessions - at least 3 knowledge sessions	As and when planned by SELCO Foundation within the timeline of the agreement
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Note:

- Orientation and discussion sessions to be held with the Core team of SELCO Foundation at every stage
- All raw materials/data used for the study needs to be submitted to SELCO Foundation at the time of final submission

5. Eligibility Criteria:

- **Experience:** Minimum 3–5 years of relevant experience in climate resilience, sustainable technologies like space cooling and storage, urban development research.
- **Technical Expertise:** Proven ability to conduct market research, technology assessments, and vendor mapping for climate-adaptive cooling solutions. Also, a proven track record on creating Need assessment, baseline and monitoring tools
- **Team Composition:** Multidisciplinary team with expertise in related fields like cooling, building design, etc. **Past Projects:** Experience working with vulnerable communities or institutions in urban settings. Experience working on similar solution mapping and field-testing projects.
- **Registration:** Legally registered, for-profit organization/ consultancy agencies in India
- **Reporting & Travel:** Ability to meet reporting standards and undertake field visits as required.

6. Selection Criteria:

The selection of the consultancy agency will be based on demonstrated experience in climate resilience, urban development, sustainable cooling technologies; the strength and relevance of the proposed team; quality and feasibility of the technical approach; understanding of the local context, particularly in Bhubaneswar or similar geographies; and prior experience working with vulnerable urban communities. Financial competitiveness, clarity of deliverables, and the ability to meet timelines and compliance requirements will also be key considerations.

7. Payment Terms:

- 25% Advance
- 25% on Completion of Deliverables for October, November, December 2025
- 25% on completion of deliverables for January, February, March and April 2026
- 25% on Final completion of project and submission of all deliverables with acceptance from SELCO Foundation

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Quote to cover detailed breakup of HR, Travel, Report, etc.

- i. The quotation should be inclusive of all necessary travel, taxes and applicable costs. Break up to be provided.
- ii. Other than the proposed amount, no additional amounts will be paid as fuel, phone charges, etc.
- iii. Deliverables need to be submitted as per the given timeline or before the expected date.

8. To apply

Interested consultants / organisations, meet the eligibility criteria with relevant experience and is interested in collaborating with the SELCO Foundation, (please include samples and/or references of the previous similar work as proof of experience) and based out of India are requested to reach out with a detailed proposal giving a brief on the methodology and the process they will uptake for this project, including budgets (with break-ups and explanation), timelines and milestones and submit the same to google form: <https://forms.gle/QMZks4skiSYjMhni7> on before **27th September, 2025**.

Any further queries please write to procurement@selcofoundation.org with a subject line: **“Call for Consultancy: Technical Advisory for Climate-Smart Cooling Solutions for Vulnerable Urban Communities in Bhubaneswar”** (Name of Project)

Refer Terms and Condition:

1. Sub-contracting: In the event that the Consultant requires the services of subcontractors to perform any obligations under the Contract, the Consultant shall obtain the prior written approval of the Foundation. Any rejection or non-performance of the subcontractor shall not, in and of itself, entitle the Consultant to claim any delays in the performance, or to assert any excuses for the non-performance, of any of its obligations under the Contract, and the Consultant shall be solely responsible for all services, obligations and deliverables performed by its subcontractors

2. Quality Assurance

The data submitted to Selco Foundation should be accurate, complete, reliable and relevant. Consulting agency shall establish additional layers for data cleaning and submission.

3. Financials & Reporting

TDS will be deducted on the fixed amount as per Income Tax Act and Rate of Percentage. In accordance with the Central Board of Direct Taxes circular No. 7 of 2022 dated 30th March, 2022 in relation to the clarifications with respect to Section 114AAA of the Income-tax Rules, 1962, failure to link Aadhar number to the PAN card and/or failure by any person, who falls within the income tax bracket or otherwise, to file tax returns in relation to payment of TDS for any service (in accordance with Section 206AB and 206AA) and/or an inoperative PAN card will result in a 20% tax deduction.



4. Indemnification

Both parties shall indemnify and hold its Trustees, Directors and representative officers, employees, agents harmless from and against any and all claims, demands, actions, losses, liabilities, charges, damages, costs and expenses (including but not limited to reasonable attorney's fees) arising out of or resulting from (1) any claims arising in connection with activities undertaken by both parties in connection with the project or (2) Consultant's gross negligence or willful misconduct or breach of any undertaking, covenant, representation or warranty contained in this agreement and/ or the actual infringement of any patent, trademark, copyrights, trade secret or any other intellectual property right of the third party.

5. Patent, Copyright and other Proprietary Rights

- i. Except as is otherwise expressly provided in writing in the Contract, the Foundation shall be entitled to all intellectual property and other proprietary rights including, but not limited to, patents, copyrights, and trademarks, with regard to products, processes, inventions, ideas, know-how, or documents and other materials which the Consultant has developed for the Foundation under the Contract and which bear a direct relation to or are produced or prepared or collected in consequence of, or during the course of, the performance of the Contract. The Contractor acknowledges and agrees that such products, documents and other materials constitute works made for hire for the Foundation.
- ii. Subject to the foregoing provisions, all documents, reports, recommendations, documents, and all other data compiled by or received by the Consultant under the Contract shall be the property of the Foundation, shall be made available for use or inspection by the Foundation at reasonable times and in reasonable places, shall be treated as confidential, and shall be delivered only to the Foundation's authorized officials on completion of work under the Contract
- iii. The Consultant will treat all information given to him/her as information with proprietary value and will not disclose the same to competitors or any outsiders. The Consultant 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 to him by virtue of his position as consultant, 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 Foundation.
- iv. Reports or other data that are developed specifically for the performance of this Contract shall be the property of the Foundation and the Consultant shall deliver reports and data to the Foundation as per the milestones. Dissemination of the reports and any information from the said contracts shall be done with written approval from the Foundation.

6. **Publicity, use of name & Logo of the Foundation:** The Consultant shall not advertise or otherwise make public for purposes of commercial advantage or goodwill that it has a contractual relationship with the Foundation, nor shall the Consultant, in any manner whatsoever use the name, emblem, logo or official seal of the Foundation or that of SELCO in connection with its business or otherwise without the written permission of the Foundation.

7. Observance of Law:

- i. Observance of Law: The Contractor will comply with all applicable laws, rules, regulations and statutory requirements and amendments thereof, in the manufacture and distribution of products and supplies and in providing services to the Foundation and during the term of Agreement.

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- ii. Child Labour- The Contractor will, its parent entities, partners or subcontractors nor any of its subsidiary or affiliated entities (if any) is engaged in any practice inconsistent with the rights set forth in the Child Labour (Prohibition and Regulation) Act of 1986, which, inter alia, requires that a child shall be protected from performing any work that is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.
- iii. Forced Labor- The Contractor will not engage in any activity that will result in forced or compulsory labor under applicable laws including the Bonded Labour System (Abolition) Act, 1976,
- iv. Abuse of Labour- Contractor will act in accordance with applicable laws and regulations and will not violate the rights of labourers as stated in The Factories Act, 1948 and similar legislations.
- v. Working Hours, Overtime, Wages and Other Benefits- Working hours, wages and benefits shall be provided by the Contractor to its staff and employees in accordance with applicable laws including the Minimum Wages Act, 1948.
- vi. Declaration of blacklisting- Contractor represents and warrants to SELCO that, as on the date of signing of this Purchase Order, it is neither blacklisted/ debarred nor it is under a declaration of ineligibility by Central / State or Semi-Government Organization/Department or Institutions and Public Sector Undertakings in India and abroad Contractor further undertakes to duly inform SELCO in the event it is blacklisted subsequent to execution of this Purchase Order/Work Order.
- vii. Compliance with Anti-bribery Laws: Contractor and each of its directors, officers, employees, agents or other (collectively referred to as " Contractor ") represent and warrant that it shall not either directly or on behalf of SELCO Foundation give, offer, promise to offer, or authorize the offer, directly or indirectly (proxy bribing), anything of value (such as money, shares, goods or service, gifts or entertainment) to government officials, government customers, potential government customers or foreign government officials including officials of any public international organizations or officials of any political party either in India or abroad ("Officials") with an Intent to influence any act or decision in his or her official capacity Induce the Official to do or omit to do any act in violation of his or her lawful duty to obtain any improper advantage, or Induce to use such Official 's influence improperly to affect or influence an act or decision.
- viii. The Contractor shall not provide any offering, promising, giving or receive, solicit or accept a financial or other advantage, or any other thing of value, with the intention of influencing or rewarding the behaviour of a person in a position of trust to perform a public, commercial or legal function to obtain or retain a commercial advantage.
- ix. Contractor understands and acknowledges that any non- adherence to the warranty as stated herein above will be violation of the provisions of the Indian Prevention of Corruption Act, 1988 and other applicable laws and legislations ("Anti-bribery Laws").
- x. In addition, Contractor agrees to promptly report to SELCO Foundation of any incident of breach or potential breach of this section.
- xi. Compliance with Sexual Harassment of Women (Prevention, Prohibition & Redressal) Act, 2013 (PoSH): The Contractor shall agree to adhere to the mandates prescribed under the Sexual Harassment of Women (Prevention, Prohibition & Redressal) Act, 2013, which requires all workplaces to have a Policy and Internal Committee to address complaints of sexual harassment that women may face at the workplace.

8. Termination:

Either party may terminate this contract by giving a notice in writing to the other party stating their intention to terminate the same on the expiration of Seven (7) days from the date of such notice. In addition, the Foundation



may also terminate this contract forthwith in the event of any fraud, misconduct or neglect of duties on the part of the Consultant. Any notice to be given hereunder shall be sufficiently given to the Consultant if forwarded by registered post or by Courier Service to the last known postal address of the Consultant and shall be sufficiently given to the Foundation if similarly forwarded to the registered office. Upon the termination of this contract and payment of the said fees due up to such termination, and payment of all disbursements and out-of-pocket expenses incurred up to the date thereof (provided the same have been incurred after obtaining prior approval), the Consultant shall deliver all deeds, documents and paper in his possession relating to the business of the Foundation or as the Foundation shall direct, and shall continue to afford him all reasonable assistance for concluding pending matters at the date of such termination without making any charge thereof.

9. Force Majeure:

i. *Force majeure* as used herein means any unforeseeable and irresistible act of nature, any act of war (whether declared or not), invasion, revolution, insurrection, terrorism, or any other acts of a similar nature or force, *provided that* such acts arise from causes beyond the control and without the fault or negligence of the Consultant

ii. In the event of and as soon as possible after the occurrence of any cause constituting *force majeure*, the affected Party shall give notice and full particulars in writing to the other Party, of such occurrence or cause if the affected Party is thereby rendered unable, wholly or in part, to perform its obligations and meet its responsibilities under the Contract. The affected Party shall also notify the other Party of any other changes in condition or the occurrence of any event which interferes or threatens to interfere with its performance of the Contract. Not more than fifteen (15) days following the provision of such notice of *force majeure* or other changes in condition or occurrence, the affected Party shall also submit a statement to the other Party of estimated expenditures that will likely be incurred for the duration of the change in condition or the event of *force majeure*.

iii. On receipt of the notice or notices required hereunder, the Party not affected by the occurrence of a cause constituting *force majeure* shall take such action as it reasonably considers to be appropriate or necessary in the circumstances, including the granting to the affected Party of a reasonable extension of time in which to perform any obligations under the Contract.

iv. If the Consultant is rendered unable, wholly or in part, by reason of *force majeure* to perform its obligations and meet its responsibilities under the Contract, the Foundation shall have the right to suspend or terminate the Contract on the same terms and conditions as are provided for in this Contract.

10. Both the Foundation and the Consultant fully and freely intend to create an independent Contractor relationship under this Contract. Nothing herein shall be deemed to establish a partnership, joint venture, association or employment relationship between the parties. Both parties agree that the consultant has the right to sole and exclusive control over the manner and means employed in performing their activities under this Contract.

11. Settlement of disputes:

i. The Parties shall use their best efforts to amicably settle any dispute, controversy, or claim arising out of the Contract or the breach, termination, or invalidity thereof.

Any dispute, controversy, or claim between the Parties arising out of the Contract or the breach, termination, or invalidity thereof, unless settled amicably, within sixty (60) days after receipt by one Party of the other Party's written request for such amicable settlement, the matter shall be referred by either Party to arbitration in accordance with the Arbitration and Conciliation Act, 1996. The venue of the arbitration shall be at Bangalore. Likewise, the jurisdiction will vest with courts in Bangalore.