

Climate Action Competition – Team Project Journal

Introduction

Welcome to your team's project journal for the Climate Action Competition 2025.

This journal is your space to **document your journey**—from your first idea to your final presentation. It's not just about what you build, but how you think, explore, learn, and grow along the way.

This project journal will be an important part of your **final exhibition on 16th November**. You'll also be asked to **submit it by the end of October**. It will be shared with the **judging panel**, so they can truly understand your **learning journey**—not just the outcome, but the process, reflections, and growth along the way.

The structure provided here gives you a **common framework** to work with, so that all teams are guided by the same milestones and judges can understand your process clearly.

Remember, this journal is not about perfection. It's about **progress, curiosity, and creativity**. Use it to capture your challenges, breakthroughs, insights, learnings, and track your progress. Your voice matters, and this is your space to make it heard.

Don't spend hours polishing your answers. Keep them **simple, clear, and to the point**. Brief communication is far more effective than long, complicated responses. We want the judges to be able to understand what you did quickly and deeply, so write with that goal in mind. Stick to the word limit indicated.

To keep your project journal sustainable and accessible, we recommend **making a copy of this document in your own drive** and updating it online regularly. It's helpful to **hold a weekly reflection session** with your team and update your entries together. Keep it as a **shared document** so everyone can contribute and stay aligned.

Please **add scans and/or photographs** of your designs, prototypes, and fieldwork to enrich your journal. Also, remember to **geo-tag all your project work photos**—this adds valuable context. You can use free apps like [Geotag: GPS photo map camera](#) or similar tools to do this easily.

Happy documenting—and good luck on your climate action journey!

Suggested Timeline

This timeline is designed to help you stay on track and move steadily from research to development to your final presentation. Use it to set **clear, measurable goals**, monitor your progress, and avoid getting stuck in any one phase. Let it guide your focus and momentum.

- **15th August – First Mentor-Mentee Interaction**

Introduce yourselves, share your motivations, set initial goals, and co-create working agreements for your journey ahead.

- **Mid-September – Research Phase**

Dive deep into your problem statement. Gather reliable data, identify stakeholders, and explore different research methods. Focus on asking the right questions, engaging with the community, and documenting your insights thoughtfully.

- **Mid-September to End-October – Design & Development**

You'll have access to Third Space labs and library (up to 7 sessions between August and November). Use these resources to design, test, and iterate your solution. Stay open to feedback, seek external input when needed, and avoid looping in the same ideas. Balance creativity with timelines.

- **End of October – Project Refinement**

Refine your solution based on testing and feedback. Begin preparing your final presentation. Submit your project journal online by 31st October. Email to youth@myclimateaction.in.

- **End of October to Mid-November – Final Touches**

Draft your exhibition narrative. Conduct mock presentations and review sessions with your mentor, peers, or guides to polish your delivery.

- **16th November – Final Presentation & Exhibition**

Present your journey confidently and independently. Your mentor will not assist during the presentation, so practice communicating your process clearly.

- **After the Event – Reflection & Gratitude**

Hold a closing meeting with your team to reflect on what you've learned and share the strengths you've observed in each other.

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Section 1: Team details and objectives

"You are not just building a project—you are shaping the future.

*Let your ideas rise beyond limits, your effort go beyond expectations,
and your purpose be rooted in the planet and its people."*

- Team Name: The Energy Ethos
- School: Maharana Mewar Public School
- Theme: Energy
- Individual Reflection: "What change do you hope to create through this project—and how do you hope to grow as a changemaker?"
 1. Member 1 name & response:
 - Taha Husain: I hope to finally be able to provide some tangible value to our civilization. I would hope to learn more about Research and Problem Management throughout the Process of brainstorming and making this project.
 2. Member 2 name & response:
 - Maria Anis Hussain: Through ThermaVault, I want to create change by making sustainable energy feel human, not some distant technology, but something that safeguards lives and opportunities in overlooked places. This project will help me grow as a change-maker who bridges invention with compassion, learning how engineering can heal inequity and how every design carries the power to restore hope.

3. Member 3 name & response:

- Jayal Jain: Through this project, I aim to support people in rural areas and regions with unreliable electricity. ThermaVault can assist hospitals in safely storing temperature - sensitive medicines and vaccines, even during power outages. Designed to be affordable, easy to assemble, and scalable all in one package.

4. Member 4 name & response:

- Neelvardhan Purawat: Through ThermaVault, I hope to spark a shift toward sustainable thermal energy by creating accessible, efficient storage systems that reduce fossil fuel reliance and inspire clean innovation. In this journey, I aim to grow into a change - maker who unites scientific rigor with empathy.

- Mentor Name: Mr. Saurabh Vyas, Mr. Prabhul Dwivedi

- Teacher Name: Dr. Kusum Lata Soni

Section 2: Problem statement

Describe the exact problem that you are trying to address through your project. This should be the same (or a condensed version) of your response in the concept note.

- There exist many underserved Communities around the world that do not have access to Reliable Electricity/Money to operate Climate Control Devices like Refrigeration, Air Conditioning, Heaters etc. Regular solutions are usually Expensive, Power-Hungry and Bulky/Non-Portable This problem mainly affects people living in Low-Income areas like Slums, Villages etc This problem is important because it affects the Health, Comfort, and Daily Lives of people. Lack of Temperature Control systems can lead to spoiled Food or Life-Saving Medicine, Discomfort, or even Serious Health risks during extreme weather (Heat Strokes, etc).
- Our team wants to solve this by providing a Low-Cost, Energy-efficient, and Portable solution that can help these communities stay Safe during extreme weather conditions, keep their Perishables (Food, Medicine) Safe and improve their Quality of Life.

Your problem statement is your anchor. It defines the challenge you set out to solve and will be the reference point for your entire project. Remember, your final evaluation will be based on how well your solution addresses this specific problem—not in comparison to other teams. Be clear, focused, and consistent with what you submitted in your concept note.

Section 3: Week 1 journal (18th August – 24th August)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Note: This section is repeated each week till the final presentation in November. Use the Navigation tab to go directly to a relevant section/ sub-section.

Day, Date: 22nd of August, 2025; Friday

Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- We had our Very first Mentor-Mentee Session in this week, In which we decided that our Problem Statement was a bit too vague and Overambitious, So our goal for this week is to Refine our Problem Statement further to make it more understandable and to focus on one Problem instead of Tackling multiple at once.

1. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- Yep! We were able to craft a new and improved Problem Statement for our Project! (Mentioned below in the new Problem Statement Section). We cross checked the Problem Statement with our Mentors and Teachers and they liked it too!

2. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- We learnt that, while being ambitious is great and all, But being over-ambitious would lead to just a few improvements while costing too much of our Time, Energy and Mental Sanity.

We wanted to solve a lot of problems at once and just dive in head first with no strategies to tackle problems. But we realised that, This would just be Naive on our Part, We instead should test out the waters, Probe the surface and then dive in with an attack plan!

3. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- Yes, As described above, We changed our Problem Statement + We realised how we should assess the situation logically first and then try to solve them with our skill sets.

4. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

1. Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

- No Expenditure incurred till now + No Previous Week Expenditures (This is the first one)
- Yes, We are currently on Track.
- No comments so far.

5. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

Start researching about scenarios in which our project can be useful (when scaled up and actually deployed) for the people and maybe even some of the Governmental Organisations



Section 3: Week 2 journal (25th August – 31st August)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 30th August, 2025; Saturday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- As described in the Previous Week's Plan, We set out to research about scenarios where our Project could prove to be useful for the Common Folks + Specialized variants of our Project for use by Some specific Governmental Agencies (Like the National Disaster Relief Force (NDRF), State Disaster Response Forces (SDRFs), National Rural Health Mission (NRHM), etc)

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- Yes, We were able to complete our Planned Tasks by scouring the internet, and using tools like Perplexity to research ways our project can be useful in certain scenarios and how we could equip our project to work even in dire conditions where direct access to electricity would not be always possible.

(An example of our Pre-Liminary report that we got using Perplexity is attached below)

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- Again, learning more from our previous realisations, We were still trying to find 20+ ways our project can prove to be useful and then tweaking some parameters of our idea to better fit them. But we realised that we didn't need to tackle 20 problems and once, If our project can tackle even 5 Situations then that is more than good enough!

An Example image of our Pre-Liminary Research Report (With the help of Perplexity):

ThermaVault Applications in Emergency and Rural Scenarios

ThermaVault's solar-powered thermoelectric cooling and heating capabilities make it exceptionally valuable across multiple critical situations. Here are the key applications:

Emergency Scenarios

Medical and Healthcare Response

During natural disasters, floods, or earthquakes when electricity infrastructure fails, ThermaVault becomes a lifeline for emergency medical services. Emergency-relief forces can preserve critical temperature-sensitive medications including insulin for diabetic patients, COVID-19 vaccines and other immunizations, blood samples for transfusions, and other life-saving medicines that would otherwise spoil within hours. This is particularly crucial in areas affected by cyclones, earthquakes, or other major disasters where hospital infrastructure is damaged and power restoration takes weeks.

Food and Water Safety

In emergency evacuation centers and relief camps, ThermaVault can safely store perishable food items like dairy products, meat, and fish donated by humanitarian organizations. This prevents foodborne illnesses that often cause secondary health crises during disaster recovery.

Additionally, it can maintain water at safe drinking temperatures and preserve other essential provisions for displaced populations.

Heat-Related Health Protection

During extreme heat waves or harsh winter conditions, ThermaVault can maintain safe temperature zones for vulnerable populations—elderly people, infants, and those with chronic health conditions—reducing heat stroke and cold-related mortality. In emergency shelters, even one such device per shelter can create a critical respite area.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- We realised once again that we didn't need our project to tackle 20+ scenarios at once. We need the general variant to tackle just 5 scenarios for now, and then later on we can scale it up and make specialised variants that could tackle the other remaining scenarios too.

(PS: We know this feels a bit similar to last week's progress, but it represents how our understanding is growing step by step.)

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

- Again, No expenditure's incurred yet + No previous Week Expenses.
- And Yes, We are on Track for now.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- For Next week, We plan to diverge a bit from the Project and finalise and formalise our team a bit (Like making a Logo, Making a Tagline, Deciding upon a working Hierarchy, etc)

Section 3: Week 3 journal (1st Sept – 7th Sept)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 5th of September, 2025; Friday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- As described above, We planned to Formalise our Team a bit this week by Adding a Logo, Making a Tagline, Deciding on a Working Hierarchy etc.

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- We were able to decide upon a great logo for our Team and a Good Tagline too. The Hierarchy was Partially complete tho, We weren't immediately able to decide that.

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- We had a bit of a problem making a Team Hierarchy and what each member will do or not do (Expected tbh), But we were eventually able to decide on it, Here it is:
 - With Taha Being the Team Leader (Plus the Main Brainstormer and Journal Manager)
 - (Note: This is Taha editing the Journal, So ofcourse i am a bit biased towards myself, But rest assured, Everyone in my team did almost equal amount of work)
 - Jayal Being the Supporting and Opposing Brainstormer to lend more Perspectives (Plus Creative Support)
 - Maria being the Creative Lead
 - Neelvardhan being the Planner and Manager

Plus, Here is the Logo we came up with:



Here is the Tagline we came up with: "Powered by the Sun, Guided by our Ethos"

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- Currently we are planning no changes to our Team Structure or our Logo/Tagline, But that might change in the future.
- Team and Time management were proving to be a hassle to be honest, But we were able to partially resolve it for the time being.

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

- Again, No expenditure's incurred yet + No previous Week Expenses. Designing softwares were free of cost (A little help from ChatGPT)
- We are deviating from our track a bit but we have some semblance of it intact still.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

We have planned a Zoom session with one of our Mentors in the next week, Our Focus for the next week will be based on that session and our Mentor's Suggestions.

Section 3: Week 4 journal (8th Sept – 14th Sept)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 12th of September, 2025; Friday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- In our session with one of our Mentors, we decided to focus on the Component Research for our Initial Prototype. What components to use, How many + How big/small in scale etc.

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- We almost completely researched most of the components that we will use for our Prototype, With a few outliers remaining like the Batteries and Solar Panels. The rest of the components research like the Main Microcontroller, Thermoelectric Cooler+ Sensors and Model/Box size were completed.

- Here is an Image of our Initial Research Report:

ThermaVault Components Research

Solar Panels (Jayal)

We should use the 'AuREUS' solar panels. These panels are made up of vegetables and fruits which turns the ultraviolet rays of the sun into electricity.

These panels can generate electricity anywhere, even where sunlight is not present as the uv light is everywhere instead of night.

These panels are the sustainable way of producing electricity and are also much more efficient than the regular solar panels.

A single prototype panel was demonstrated to generate sufficient power to charge two phones per day, an amount in the 40-60 watt range, depending on sunlight conditions.

Perhaps such panels may not be available readily in the Market or for cheap prices too.

Insulated Box

We will be using Conductive Metal Plates on the Inside of the Box and 3D Printed Plastic Enclosing to insulate it from the Outside Environment. It will be 10-15 cm in length on each side (So about 1 m³ available volume). We decided these dimensions and 3D printed walls because they will lead to the best Thermal Insulation (According to us)

Heating/Cooling Device

We will be using 1-2 Peltier Modules (TEC-12706) [About 90 Watts per Module] [Max Voltage at 12 VDC and Max Current at 6.4 Amps]

Microcontroller and Temperature Sensor Circuits

We will be using a Microcontroller (Arduino/ESP32) and 1-2 Temperature Sensors (DHT-11) embedded into the Inside of the Insulate Box to measure the current temperature of the inner environment.

The Temp sensors will feed the data back to the Microcontroller and the User can set a certain required temperature for the device which will also be fed to the Controller.

The controller than through relays periodically cuts and revives power to the Peltier Modules to maintain the temperature within the box (Using the temp sensor as a feedback loop).

[Optional: Can also include LCD Display for User Convenience)

Heatsink & Fan system

Heatsinks with Fans will be added to the "Heating side" of the Peltier Module to evacuate the heat generated by the modules and help them maintain the Cool environment within.

These Heatsinks are passive Heat Dissipators and The Fans will turn on simultaneously by the Microcontroller when Power to the Peltier Modules is revived.

(Lithium-Ion Battery Capacity Research Pending)

(Although it is visible that the Solar Panel research is also done, but it isn't. We removed this part later on in the week because we weren't satisfied with it too much)

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- I'd say we faced obstacles regarding our Research methods because we realised that they were too heavily reliant on AI services and were barely Fact Checked. Now we decided to not do that as AI introduces unnecessary bias and with us not fact checking out info, This would lead to a deadly problem further down the line.
- So we researched about the Components this time by scouring the internet ourselves and fact checking info thoroughly before using it. But this led to certain delays which resulted in us not being able to thoroughly research about Solar Panels or our Battery Pack.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- Yes, As mentioned above, We changed our method of Researching to a more Unbiased One and one where the facts we used are thoroughly analysed before we use it anywhere.
- We are still considering researching more about the Solar Panels which we are going to use and to finally complete the Battery Pack research too.

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

- Continuing the Streak, We still haven't spent a single rupee yet in our project (Minus the Travelling costs ofcourse).
- We are getting back on Track now.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- We plan to continue and finally complete and fact check all the components research by next week but destiny had different plans for us (Used a Pun here). Our School Exams were just beginning 😞.

Section 3: Week 5 journal (15th Sept – 21st Sept)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 21st of September, 2025; Sunday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- We planned to continue and finalise our Research and Fact Checking for our Components Research but from this week onwards, Our school exams had started so we had to postpone the project for a bit.

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- N/A. School Exams Ongoing. We weren't able to achieve anything this week.

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- N/A. School Exams Ongoing.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- N/A. School Exams Ongoing.

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

- No expenditures (Exams ongoing) + No Previous week Expenses
- Deviating highly from our Track 😰

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- For now, The focus is just to survive the School Exams, and come out alive enough to continue the project 🤞

Section 3: Week 6 journal (22nd Sept – 28th Sept)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 28th of September, 2025; Sunday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- N/A yet again, School Exams Ongoing

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- N/A yet again, School Exams Ongoing. We couldn't achieve anything this week either.

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- N/A yet again, School Exams Ongoing. (The only problems right now are the Exams)

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- N/A yet again, School Exams Ongoing. (Trying to do better in exams, Is that considered as an ongoing improvement?)

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

- .No Expenditures yet again + No Previous Expenses (Exams ongoing)
- Deviating dangerously away from Track 😰🙏

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- Exams unwinding, Just a couple more left. Will decide the Focus next week.

Section 3: Week 7 journal (29th Sept – 5th Oct)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 4th of October, 2025; Saturday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- With the Exams finally unwinding (Phew, We survived). I (Taha Husain) planned to go out to the market and buy some of the components for the prototype (Finally breaking the streak of No expenses)

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- Partially yes, We were able to acquire some of the Components for our Initial Prototype after our Exams got over.
- We were also able to finally complete our pending Components Research!
- We were able to buy some of the main components like the ThermoElectric Peltier Module + The Heat Sink. And we acquired The Temperature Sensors and Microcontroller from our School. (Incredibly grateful to our Teacher (Dr. Kusum) and our School for helping us in that)

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- There were a couple of disputes regarding the Budgeting and Money stuff (Again Expected) but we were eventually able to buy some of the stuff and acquire some more from our School.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- We could maybe manage our Budgeting better and our Time too because we wasted a ton of it in this week and the previous couple of weeks (Looking at your Neelvardhan).
- Further, We want to acquire the remaining stuff soon too.
- And maybe even start working on our Prototype.

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

- 1x Peltier Module (₹500)
- 2x Heat Sink (₹50)
- 2x Temperature Sensors (Acquired from school)
- 1x Arduino Microcontroller (Acquired from school)

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

- Finally breaking up our Streak, We spent around ₹550 for some of the Components of our Prototype
- We are trying to get back on track after that brutal Exam season.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- Focus of our Next week would be to start making a design for the Prototype + Attend the Toastmasters International Session about Presentation Skills.

Section 3: Week 8 journal (6th Oct – 12th Oct)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 12th of October, 2025; Sunday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- Our goals for this week were to make a design for the Prototype and Attend the Presentation Skills workshop by Toastmasters International in 3rd Space.

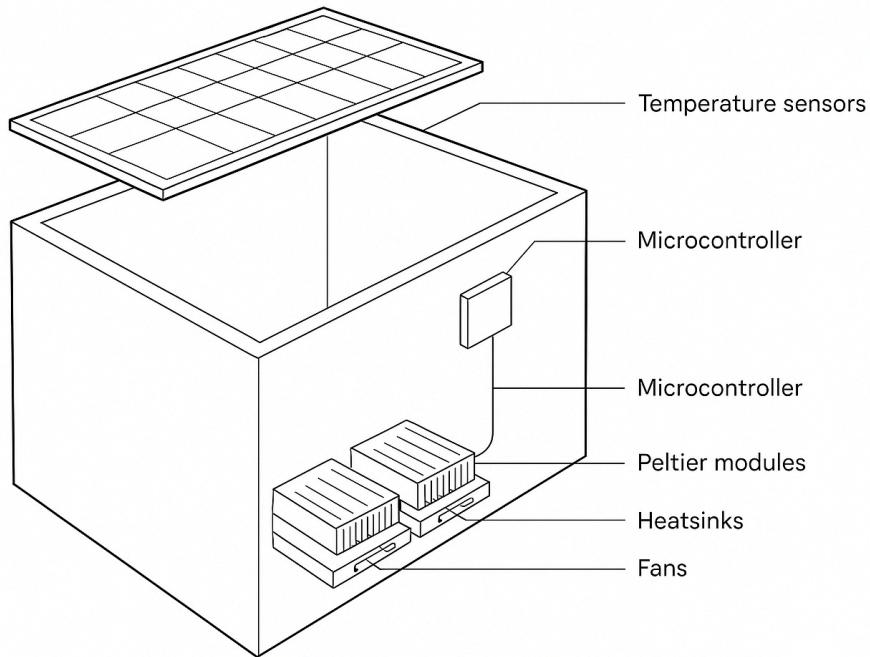
2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- We were able to make a Pre-Liminary Design for our Prototype and plan on how we would go about assembling it.
- We attended the Toastmasters Session and got feedback about how we should go about presenting our project on the final day. (Personally speaking (Taha). I loved the session but i got a bad feeling about the hosts there, Their main points were to 'fake your personality during the presentation to win over the judges, which i personally go against' (no offense to anyone btw))

- Design of the Prototype attached below:



3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- We designed the Prototype design but Taha and Maria were not able to agree on one design and this created a temporary tension in the team which ended up just wasting our time. We fixed this by agreeing on a middle ground.
- The Toastmasters Session was useful but some of us couldn't make it there. We approached this by confirming whether all of the team members will come or not beforehand.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- We are not considering any further changes to the design of the Prototype for now (Partially also due to the fight we had earlier)
- We switched to a new system to confirm whether the entire team will be available for a future event or not.

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

- No further expenses this week. (The Designing software was free)

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

- No expenses this week + ₹550 from the previous week (Total ₹550 till now).
- We are gaining back our Momentum and getting back on track 😊

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- We decided to focus on changing our Logo and Tagline once again + Completing the Prototype Design + Start Building the Prototype.

Section 3: Week 9 journal (13th Oct – 19th Oct)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 19th of October, 2025; Sunday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- We didn't utilize this week to the fullest, and hence we were only able to Design a New Logo + Tagline for our Project and make some changes to our Prototype Design.

2. Celebrating the path:

(1-2 sentences, 100 words)

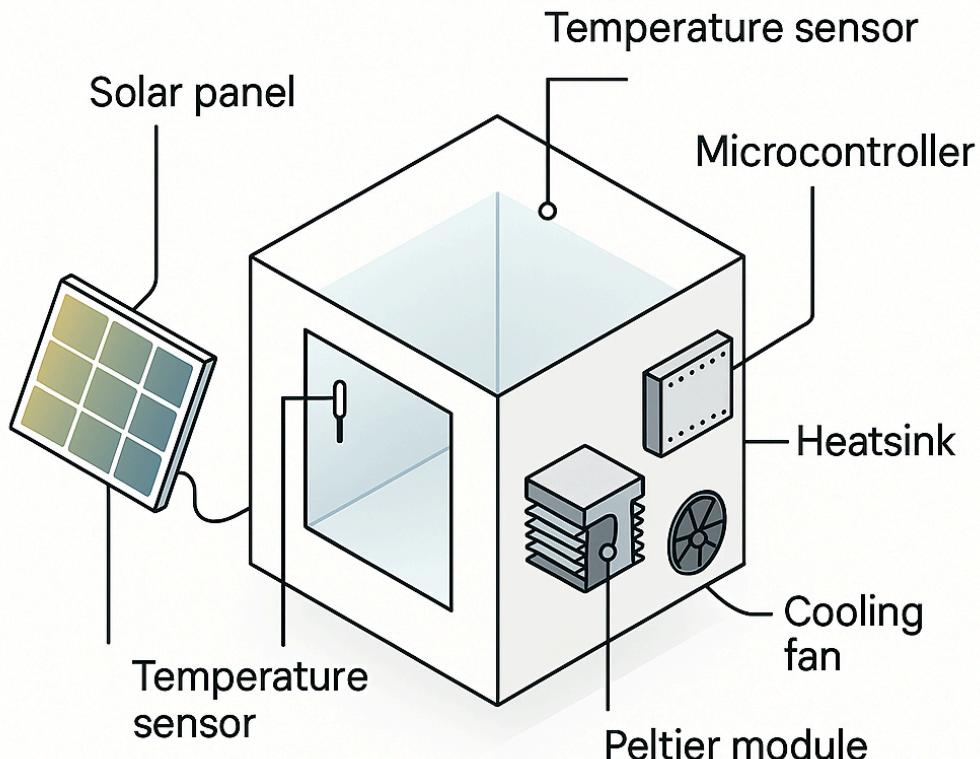
What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- We were only able to partially achieve our Goals this week due to Procrastination and other factors. We changed our Team Logo + Tagline along with some minor changes to our Prototype Design.

- Here is our New Logo:



- Here is our New Tagline: "When Innovation starts Breathing with Nature itself"
- Here is our New Prototype Design:



ThermaVault – 10 x 10 x 10 cm

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- We faced a major challenge of Procrastination and Time Wastage this week because of which we weren't able to complete all of our tasks by the weekend. We devised plans to avoid this happening again. (Looking at Neelvardhan again).

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- We plan to work more efficiently in the future and avoid Procrastination as that could prove to be lethal for us moving forwards. I believe this happened because the initial excitement of the project faded away by now, but we still won't stop this easily.

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

- No further expenses this week, Only previous ones which come out to ₹550

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

- No expenses this week (Excluding travel). Previous Week's expenses = ₹550. Total Expenses = ₹550
- Some setbacks were there but we are still on track.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- Start working on the Prototype + Meet with the Mentors next week in 3rd Space to discuss our Design.

Section 3: Week 10 journal (20th Oct – 26th Oct)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: 26th of October, 2025; Sunday

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

- We met with our Mentors in 3rd Space and talked about our Design for the Prototype and how to move ahead from here on out + Clear some doubts and Choices for Components.

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

- We met with our Mentors this week and decided to use 3D Printed walls for our model instead of Wooden Walls + We talked about our Budgeting Issues for the more expensive Components.
- We tried to get Permissions to use the 3rd Space 3D Printer for our Prototype.



3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

- We came upon the problem that the Batteries and Solar Panels that we wanted to use for the Prototype were too expensive to buy and that we would not be able to afford them. We solved this by discussing with our mentors and came upon a sweet middle ground.
- We had troubles getting Permissions for the 3D Printer Access in 3rd Space, We are still awaiting the permissions.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

- We along with our Mentors settled for a great Middle Ground for the Budget issues regarding our Prototype in which the solution isn't too expensive but still works well with our Problem Statement.

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

- No further expenses Incurred as of yet, Remaining components are the Heatsink Fan, 3D Printed Walls, Lithium-Ion Batteries.

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

- No expenses this week + Previous Weeks Expenses (₹550) = Total Expenses as of yet are ₹550
- We are on track but slightly anxious on the deadline for the Project, But we believe that we will be able to pull this off! 🤞

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

- Our focus for the next week would be to finally stop avoiding the inevitable and start vigorously working on the Prototype (Get the 3D Printed Walls ready, Plus the Arduino Code ready)

For the Time Being, This is it for the Weekly Journal for Submission on 31st of October, 2025. Further entries will be added and showcased on 16th of November, 2025

Section 3: Week 11 journal (27th Oct – 2nd Nov)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: _____

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

Example:

Total expenditure till date last week: 2000

This week's expenditure: 1000

Total expenditure till date: 3000

Budget estimated: 6000

Estimate of expenses due: 4000

Total estimated expenditure: 7000

Total estimated expenditure exceeds the estimated budget. We are not on track.

We will try to optimise our purchases and find alternatives.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

NOTE: Please submit this journal to the organising team by the end of this week.

Email it to youth@myclimateaction.in.

If not submitted on time, judges may not be able to review your project journey thoroughly, which could affect your final score.

Section 3: Week 12 journal (3rd Nov – 9th Nov)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: _____

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

Example:

Total expenditure till date last week: 2000

This week's expenditure: 1000

Total expenditure till date: 3000

Budget estimated: 6000

Estimate of expenses due: 4000

Total estimated expenditure: 7000

Total estimated expenditure exceeds the estimated budget. We are not on track.

We will try to optimise our purchases and find alternatives.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

Section 3: Week 13 journal (10th Nov – 15th Nov)

This is the core of your journal, designed for weekly reflections. Take regular notes as you proceed through your project and dedicate time each week to write responses for these questions.

Day, Date: _____

1. Goal setting: What did you set out to close this week?

(1-2 sentences, 50 words)

(Depending on which stage you are in, your weekly goal will vary from research to design to development to refinement and final presentation. Examples: Survey implementation sites and engage with stakeholder/ Research and compare different TEG circuits/ Complete the design and test for different inputs/ Final edits to the film etc)

2. Celebrating the path:

(1-2 sentences, 100 words)

What went well? Were you able to achieve completely or partially what you set out to do? Add geo-tagged photos to your notes to show your journey.

3. Learning from challenges:

(1-2 sentences, 100 words)

What challenges or obstacles did you face? How did you approach them? Add geo-tagged photos if relevant.

4. Iterations and improvements:

(1-2 sentences, 50 words)

What changes are you considering? Have you identified a different approach to what you are currently doing?

5. Book-keeping:

(Itemised list, 100 words total)

Note down all your expenses for the week as itemized as possible for you to track your expenditure against the budget you set out with.

5.1 Expenditure till now (Add with previous week's number). Are you on track? Yes/No? What can you do better?

Example:

Total expenditure till date last week: 2000

This week's expenditure: 1000

Total expenditure till date: 3000

Budget estimated: 6000

Estimate of expenses due: 4000

Total estimated expenditure: 7000

Total estimated expenditure exceeds the estimated budget. We are not on track.

We will try to optimise our purchases and find alternatives.

6. Focus for next week:

What is one key thing you need to focus on next week?

(1-2 sentences, 50 words)

Section 4: Month1: August mentor discussions

This section is dedicated to capturing insights from your monthly interactions with your mentor. The mentor may also fill this section to capture his/her insights every month.

Note: This section is copied and repeated for every month.

Date: 22nd of August, 2025; Friday

1. Focus of the month:

What juncture are you in, in your project journey? What specific challenge or question are you discussing in this particular meeting?

(1-2 sentences, 100 words)

- We are just starting out on our Project Journey, This Month's session was focused on discussing and improving the Problem Statement and Core idea of our Project

2. Insights:

What new insights or directions came out from your meeting?

(2-4 sentences, 200 words)

- We realised that we can't be too over ambitious with what we are planning to solve with our Project. We polished our Project's core idea to target on focusing one problem at a time and that if we want to solve more in the future, We can make a specialized version of our Project for that.

3. Next steps:

What actions will you take based on your discussion?

(1-2 sentences, 100 words)

- We will polish our Problem Statement further as our next steps and plan out how we are supposed to execute our idea and pour all the love we can into the project.

Section 4: Month 2: September mentor discussions

This section is dedicated to capturing insights from your monthly interactions with your mentor. The mentor may also fill this section to capture his/her insights every month.

Date: 11th of September, 2025; Thursday

1. Focus of the month:

What juncture are you in, in your project journey? What specific challenge or question are you discussing in this particular meeting?

(1-2 sentences, 100 words)

- We focused on Starting and Completing the Research for the Components that we are going to use in our Project. We talked about the same in the Mentor-Mentee Session too.

2. Insights:

What new insights or directions came out from your meeting?

(2-4 sentences, 200 words)

- We started using better methods of Research while doing the Components Research this month. Plus we realised that relying on AI too much will only result in a trap further out. We also realised the usefulness of Research before diving into the action.

3. Next steps:

What actions will you take based on your discussion?

(1-2 sentences, 100 words)

- We started and Completed our Pre-Liminary Prototype Components Research.
- From here on out we will be using a much more pronounced and efficient Research Methodology for our Other Researches.
- After our Research work for the Components is done, We can finally focus on starting to build the Prototype for our Project.

Section 4: Month 3: October mentor discussions

This section is dedicated to capturing insights from your monthly interactions with your mentor. The mentor may also fill this section to capture his/her insights every month.

Date: 25th of October, 2025; Saturday

1. Focus of the month:

What juncture are you in, in your project journey? What specific challenge or question are you discussing in this particular meeting?

(1-2 sentences, 100 words)

- We focused on our Prototype Design and refining it further
- Solving some of the Budget Problems with the Prototype Components
- Made some Crucial Choices for our Final Prototype

2. Insights:

What new insights or directions came out from your meeting?

(2-4 sentences, 200 words)

- After the Session, We refined our Design of the Prototype
- We chose to use 3D Printed PLA Walls for our Prototype instead of Wood
- We chose a Middle ground between Solar Panels and Batteries because they are quite expensive to buy from the market

3. Next steps:

What actions will you take based on your discussion?

(1-2 sentences, 100 words)

- We will be using a 3D Printer to Make the 6 Walls required for the Prototype
- We will choose to power the Prototype with Lithium-Ion Batteries charged with an adapter for the time being because of Unavailability of Solar Power in the Exhibition Venue + Because Solar Panels that can provide 100 W/Hr of Power would be too expensive to buy.

Reminder to mentors:

Please ensure your team's project journal is submitted to youth@myclimateaction.in by the end of this month (31st October). Timely submission is crucial — without it, judges won't be able to assess your journey and impact adequately.

Section 4: Month 4: November mentor discussions

This section is dedicated to capturing insights from your monthly interactions with your mentor. The mentor may also fill this section to capture his/her insights every month.

Date: _____

1. Focus of the month:

What juncture are you in, in your project journey? What specific challenge or question are you discussing in this particular meeting?

(1-2 sentences, 100 words)

2. Insights:

What new insights or directions came out from your meeting?

(2-4 sentences, 200 words)

3. Next steps:

What actions will you take based on your discussion?

(1-2 sentences, 100 words)

Section 5: Project Summary

This section is to capture the summary of your project – the problem, the final solution, data, and final outcome. It is a snapshot of your project as it is today. This will also be helpful for your final project presentation as well.

1. What is our problem statement

Go back to [Section 2](#) and write your problem statement again. Has there been any change in it? For example: it may have reduced or increased in its scope?

(1-2 sentences, 50 words)

- Many farmers, fishers, shop owners, hospital staff, Emergency-Relief Forces across Rural India face the problems of Unreliable Electricity and thus Unreliable (Cold-Storage) Storage of Essential Items that require a Cold environment to stay viable for long times.
- Our Project will aim to resolve this issue of effective and economic Storage of Perishables such as Food (Meat, Dairy Products, Fruits etc); Medicine (Like Insulin, COVID-19 vaccines, Blood samples etc), While not relying on the Main Power Grid as that is susceptible to Power Losses and Failures quite often in Rural India.
- Our Goal would be to provide a viable solution to this problem for the Economically Weaker Sections of Society + Governmental Agencies like NDRF while also maintaining sustainability.

2. What was our desired end state?

What did you exactly set out to create? (Example: an AI enabled waste segregation system within a budget of 15K)

(1-2 sentences, 50 words)

- We desired to create an All-Solar + Battery Powered Product which would be available in the market for less than ₹6,000. Which would make it a Viable cooling/heating solution for Rural India + Several of the Governmental Agencies and Emergency Relief Forces. We planned to create a device that would maintain a cool temperature without being too bulky, expensive to buy/run and which would run without a compressor.

3. What is the final solution

Share what the final solution is now and if applicable, how it is different from the original conceptualisation. Add a picture of your final prototype or installation and/or a link to your video (you may upload your video as a public video on Vimeo YouTube or share an accessible link for drive)

(1-2 sentences, 50 words)

- Our final solution that we will showcase in the Exhibition would be a Prototype of our Idea + A Short Film about it + A PPT about our entire Project.
- Our Prototype will differ from our initial conceptualisation because we will be using On-Grid power for the Showcasing instead of relying completely on Solar Power.

4. What results has it created?

Share some numbers on impact. (Example: We implemented our prototype in our school campus with an area of ~3 acres and 250 students. The total waste produced per week was reduced from 175kg (measured in Aug) to 100 kg (measured in Oct). A 60% reduction in waste and about 50 kg of the waste was also sent to recycling. Total reduction in waste going to landfill was almost 70% (from 175kg to 50kg per week)

(1-2 sentences, 100 words)

- We are yet to fully develop our Prototype so it is not deployed yet, So we can't quote any measurable impact it has had as of yet.

5. What are its strengths

What key features would you like to highlight?

(1-2 sentences, 50 words)

- We'd say that the Strengths of our Project is that it can function solely on Solar power and doesn't need Continuous On-Grid power. Plus it is much less Expensive to Buy/Run + Much less Bulky + Doesn't need a Compressor to run. So, it'll be a much more viable solution when compared to Traditional Cooling Methods.

6. What are its weaknesses

What are some features you would like to change/ address later?

(1-2 sentences, 50 words)

- Some of the Weaknesses that we would eventually want to solve for our Prototype would be:
 - To Make it able to run Completely on Solar Power
 - To increase its cooling capacity, And make it comparable to devices which use a Compressor to work

7. Overall cost of implementation

(1-2 sentences, 50 words)

- We are still developing the Prototype, So the exact cost is not known as of now, But according to our Estimates, It will be made for less than ₹4,000.

Section5.1: Feedback post finals presentation

Fill this section after the finals on 16th November.

8. Feedback for the project:

List down critical feedback that came from different stakeholders. Include those that you could not act upon due to time or other constraints, but will definitely help in the project's future direction

9. Future direction:

How will you take your project further, beyond the competition?

Section 6: End of project reflection (after the finals on 16th Nov)

Use this section to capture insights from your entire learning journey with the climate action platform – from concept note to final exhibition.

Note: There is one page for each team member and mentor.

Member 1

Name: _____

Date: _____

2. Celebrate your achievement:

What are you most proud of?

3. Stories:

Share a story to highlight the process of working as part of a team and/or with a mentor. Did anything change in your way of working?

4. Key learning:

What is one key takeaway for you from the entire journey?

Member 2

Name: _____

Date: _____

5. Celebrate your achievement:

What are you most proud of?

6. Stories:

Share a story to highlight the process of working as part of a team and/or with a mentor. Did anything change in your way of working?

7. Key learning:

What is one key takeaway for you from the entire journey?

Member 3 (If applicable)

Name: _____

Date: _____

8. Celebrate your achievement:

What are you most proud of?

9. Stories:

Share a story to highlight the process of working as part of a team and/or with a mentor. Did anything change in your way of working?

10. Key learning:

What is one key takeaway for you from the entire journey?

Member 4 (If applicable)

Name: _____

Date: _____

11. Celebrate your achievement:

What are you most proud of?

12. Stories:

Share a story to highlight the process of working as part of a team and/or with a mentor. Did anything change in your way of working?

13. Key learning:

What is one key takeaway for you from the entire journey?

“This is not the end of a project—it’s the beginning of a purpose. What you’ve built is more than a solution; it’s a mindset. Carry it forward, because the world needs not just ideas, but changemakers like you.”

- *All the best wishes from the organising team at the Climate Action Platform 2025*