



Public Project Summary



Project Report

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An Updated Summary of the Project Vivaan

Team SHUNYA project's Vivaan is designed and constructed for warm and humid climatic conditions. The house's primary objective is net positive energy, net zero carbon and net zero water. The team has designed the house's cooling system using chilled water for temperature control and liquid desiccant for dehumidification. In-house-developed home automation on an open-source platform will allow the occupants to control the temperature, humidity, lights, and occupancy.

Table 1 - Project Details & Technical targets

Location	IIT Bombay, Powai, Mumbai, Maharashtra, India	Envelope Properties	Wall assembly: 0.243 W/m ² K Roof assembly: 0.316 W/m ² K
Climate	Warm and humid	Fenestration	U Value: 0.20 W/m ² K SHGC: 0.27
House Type	A two storey single family dwelling unit with 2 bathrooms and 2 bedrooms	HVAC System	<ul style="list-style-type: none"> Liquid Desiccant based dehumidification system Thermal energy storage Energy savings through load separation
Dwelling unit Area	GF : 71.7 m ² FF: 38.5 m ² Lot size: 230 m ²	Solar PV Installation	13 kWp Rooftop PV System
Occupants	A family of four: Two Adults and 2 Children	EUI Target	50 kWh/sq.m/yr

Target Market and Design Philosophy

The house is designed for a family of 4 (couple and children). The family has moved to Navi Mumbai from a Tier 2 city for better job opportunities, which is valid for many other people moving there. For them, the city of Navi Mumbai, with its rising culture of modular and apartment houses, there is a sense of disconnect and alienation. The principal driving factor of our design tries to address these concerns using the conceptual framework of Phenomenology, focusing on human experience and seeking to create spaces tailored to the needs and perceptions of the inhabitants, providing them with a 'sense of belonging' and hence transforming the 'house' to a 'home'.

The house is an amalgamation of new technology and vernacular knowledge systems. It is a perfect example of a contemporary vernacular house with the latest technology incorporated with the conceptual framework of phenomenology, making the 'house' a 'home'.

The phenomenological framework is combined with the pillars of sustainability, namely, environment, social and economic. This forms the basis of various design decisions, from the zoning of spaces to the materiality of the built area.

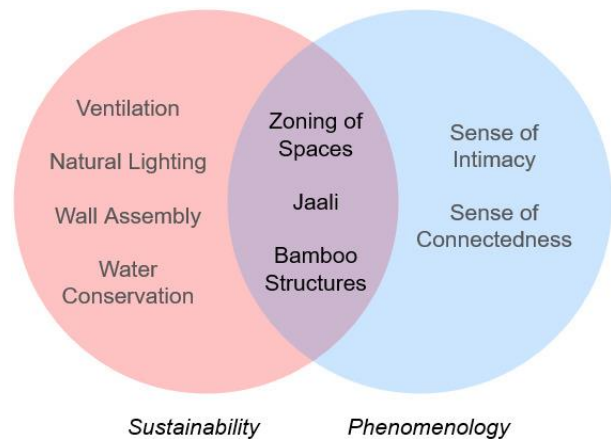


Figure 1 - Design Elements combining Phenomenology and Sustainability



Figure 2 - Front View of the House

Construction Site Details

The house is proposed for the Navi-Mumbai, Maharashtra market. To resemble the climatic conditions and provide flexibility in execution, a suitable site in IIT Bombay Campus, Mumbai, is selected for the project house construction. The figure below explains the construction site location and target market with google earth images to better understand the construction surroundings.

As an autonomous institute, IIT Bombay has jurisdiction over the construction happening within the campus. Also, IIT Bombay has authority over the campus's grid connections, water supply connections, and other necessary amenities. On the broader aspect, rules and regulations from the Municipal Corporation of Greater Mumbai control the construction activity within the IIT Bombay campus. The Development Control and Promotion Regulations (DCPR) 2034 took effect on 1st September 2018. It will govern all the building development activity and development work in the Municipal Corporation of Greater Mumbai (MCGM) jurisdiction for the next two decades.

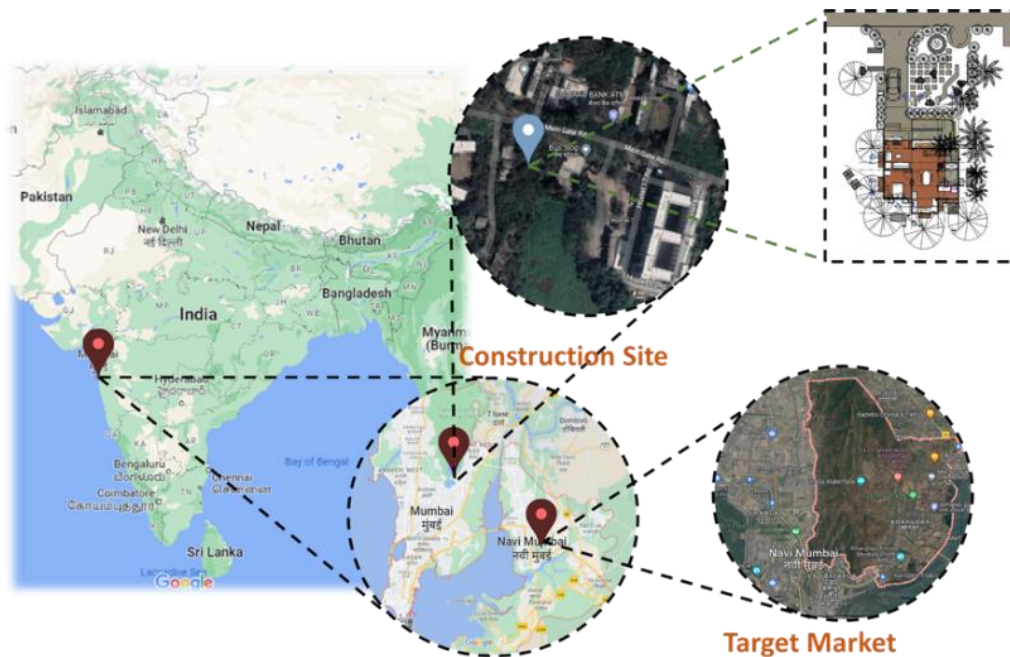


Figure 3 - Site Location and Target Market

Construction Partners

We decided to collaborate with various industry partners with different collaboration forms such as material support, construction activity support, design and analysis support, and monetary support.

In-kind Material Support

Ecoboard Industries Ltd. provided the recycled wooden board panels which we have used in walls, floors, and false ceilings. Prism Johnson Ltd. is one of the multidisciplinary partners providing us with tiles with specialized applications, water-efficient water fixtures, germ-proof sanitary wares, and modular kitchens. Saint-Gobain India Pvt. Ltd. – Glass Business provided the DGU glass to support the energy-efficient envelope design. Saint - Gobain Gyproc India Ltd. provided us with fiber cement boards for fireproof and waterproof applications making the house more durable. We have used a unique insulation material named Pink Next Gen™ Fiberglas™ Insulation by Owens Corning India Private Ltd., which is environmentally friendly and has a lesser health impact during installation. Signify Innovations India Ltd. provided us with the lights, which can be integrated with the automation system designed by the team or operated independently. Polycab India Ltd. provided us with the wires, switches, and remotely used ceiling fans, which can be integrated with the smart HVAC system of the house. Wadbros Imports & Exports provided us with low-noise exhaust fans, which are energy efficient and help in a quiet noisy environment in the house. Origin Corporate Services Pvt. Ltd. provided dehumidifiers used in some parts of the house to tackle latent load and integrate smart HVAC systems. Adani Solar provided us with solar panels assembled in India. Prince Pipes and Fittings Ltd. supported us with plumbing materials with specially designed environmentally friendly products. Ameet Innovations LLP provided support and guidance for installing the plumbing system.

In-kind Services Support for Design, Analysis, and Testing

Design Builder Software Australia provided the license for the energy and comfort simulations for the house. SoftTech Engineers Ltd. is helping us install additional monitoring sensors with a digital twin system, which will serve as an extension to this project for future energy monitoring. Ecofirst Services Ltd.- A Tata Enterprise helped us optimize the design and match industry standards as a knowledge partner. The support provided by Plan- M India Pvt Ltd. helped the team work on realistic renderings and walkthroughs we are presenting.

Monetary Support

Monetary support by Seal for Life Group, SoftTech Engineers Ltd., and some other individual supporters played an essential role in the completion of the project.

Public Exhibit and Community Exhibition Strategies

From exhibiting to the public for inspection, be it professionals, industrialists, dedicated societies, informed personnel, activists, and environmentalists, to community exhibition, Team SHUNYA and its sustainable house has grabbed the attention of students and people from diverse groups. These events stand on the pillar of mass participation they have managed to engage. For it is well known, good participation comes from great publicity. This agenda of publicizing the event needs to be catered thoughtfully.

For the community exhibition, we have organized it into phases as follows

Phase I (5th-20th March)

Phase I involved the visits of school and college students, local media, and industry professionals. The following activities have been successfully conducted in phase I:

- Campus School Visit
- AP Shah Institute of Technology ASHRAE Student Chapter Visit
- Visit by ASHRAE and ISHRAE Student Chapter, Thane
- ISHRAE Ratnagiri Chapter Visit
- Visit by Mr. Durgesh Maru, CEO of Net Zero Pro
- News coverage by Good News Today. Telecast and Article were posted following the visit.



Inauguration (8th April)

We plan to invite the chief minister of the state, government officials, top industrialists and real estate developers in India for the inauguration. Institute officials like the director, deans, professors and industry partners will also attend the event. A roundtable conference will follow the inauguration ceremony to discuss the potential of sustainable construction and promote it to the public through policies. This conference will be attended by developers, builders, CIDCO officials, and other industrialists involved in the construction sector.

Phase 2 (8th-18th April)

Phase 2 for the exhibition will target the following stakeholders

- Government bodies: MMRDA (Mumbai Metropolitan Region Development Authority), CIDCO (City and Industrial Development Corporation)
- Utilities: Collaborating with NASA (Non-Academic Staff Association, IIT Bombay)
- Industrialists
- Environmentalists
- NGOs

Future Plans for the House

The house is designed for a warm and humid climate. It will be inside the IIT Bombay campus for the next several years. The house will be used as a living laboratory for Team SHUNYA. Team members will perform experimental and simulation work for upcoming industrial projects and look to incorporate developed innovative technology in the house. Also, the same design will be replicated in Kharghar, Navi Mumbai, with collaboration builders and CIDCO.

Final Details for the Team's Community Exhibition

After completing all measured contest criteria, the house will open for public exhibition **from 8th April**. Community exhibition will open from the inauguration of the house from the Vice Chairperson and managing director of CIDCO and director of the Indian Institute of Technology Delhi and Indian Institute of Technology Bombay. The exhibition time will be from 8:00 am to 5:00 pm, divided into slots for different community groups.

Events and Activities Conducted till Date

Conventional Media

Planet Powai

- **Date:** 26th February 2023
- **Venue:** <https://bit.ly/3Zu1tRw>
- **Target Audience:** Local media.
- **Plan:** An article about the team, our activities, and Project Vivaan was published in Planet Powai, the local newsletter.
- **Impact:** Spread awareness about team's activities and sustainability among 60,000+ local public in Powai area.

Good News Today

- **Date:** 23rd March 2023
- **Venue:** https://www.gnttv.com/india/story/iit-bombay-students-preparing-eco-friendly-house-531210-2023-03-23?utm_source=gntweb_story_share
- **Target Audience:** All
- **Plan:** The team and its activities were featured on live TV. An article about the team, our activities, and Project Vivaan was published in Good News Today.
- **Impact:** Spread awareness about the team's activities and sustainability among 0.3 million+ people all over India.



IIT Bombay Campus Diary

- **Date:** 13th October 2022
- **Venue:** https://www.iitb.ac.in/sites/www.iitb.ac.in/files/Campus-Diary/2022/Campus_Diary_July_August_September_2022.pdf
- **Target Audience:** All
- **Plan:** News about the team's newsletter and the launch event was published in IIT Bombay Campus Diary, a newsletter for the residents of IIT Bombay.
- **Impact:** Spread awareness about the team's outreach activities among

The Net Zero Insider

- **Date:** 11th March 2023
- **Venue:** Project Vivaan, IIT Bombay
- **Target Audience:** All

- **Plan:** Mr. Durgesh Maru, CEO of Net Zero Pro and founder of the sustainability newsletter, 'The Net Zero Insider' visited our construction site at IIT Bombay. The details about the project will be published in the upcoming edition of the newsletter.
- **Impact:** The LinkedIn newsletter article will reach about 2000 people.

#2 Social Media

Sustainable Sunday

- **Since:** July 2021
- **Venue:** Social media platforms
- **Target Audience:** Social media followers
- **Plan:** Starting in July 2021, we started posting informative content about various sustainable technologies and practices adopted around the world every Sunday through our social media platforms.
- **Impact:** Fruitfully engaged 12,000 people (and still counting) through demonstrating and illustrating on the issue of concern in the contemporary world, i.e., sustainability. Showcasing methods, via social media handles, to improve sustainability and offering a perspective for viewing the world through an alternative lens that promotes greater resilience.

LinkedIn Blogs

- **Since:** June 2022
- **Venue:** Social media platforms
- **Target Audience:** Social media followers
- **Plan:** Starting June 2022, we published 3 blogs on LinkedIn on the following topics:
 - India: A renewable superpower
 - AI: Game changer in renewable energy
 - Breaking Barriers: Women's contributions to sustainable construction in India
- **Impact:** The blogs had a total of about 2500 impressions and an average clickthrough rate of 7.2%.

Curious Stories

- **Since:** July 2022
- **Venue:** Social media platforms
- **Target Audience:** Social media followers
- **Plan:** Starting July 2022, we started posting a basic question related to sustainability through our Instagram stories every Saturday
- **Impact:** Engaged an audience of about 1000 followers on Instagram.

Events

SUSTAIN 2.0

- **Date:** October 2021

- **Venue:** Online
- **Target Audience:** College students, Industry professionals, Academia, Non-profits
- **Plan:** 'SUSTAIN' was held from October 31, 2020 to November 1, 2020 with different subsystem specific webinars for the participants on the following topics by :
 - Revit and Navisworks Software Workshop
 - Matlab and Simulink Workshop
 - AI Applications in Home Automation
 - Role of Energy in Rural Development
 - Sustainability in Indian Projects
- **Impact:** About 200 engineering and polytechnic students from all over the country attended these workshops and sessions. The students had a great time interacting with the speakers which comprised Industry experts as well as professors after the informative sessions.

SUSTAIN Talks

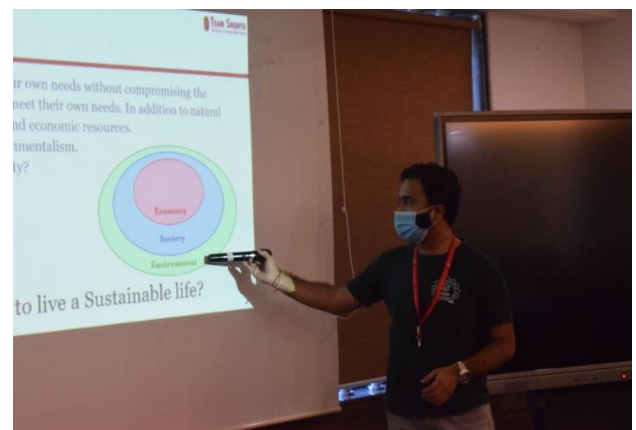
- **Since:** December 2021
- **Venue:** IIT Bombay
- **Target Audience:** College Students, Industry Professionals, Academia
- **Plan:** Starting December 2021, we organized multiple talks based on current topics on sustainability by Industry Professionals as well as academic experts every month. These talks were intended for college students and were uploaded on our YouTube channel as a series.
- **Impact:** The sessions became platforms for sharing new knowledge and wisdom. The small, but effective, informative, but lucid, nature of talks on sustainability increased the reachability of message to the concerned academicians as well as lay person. Additionally, the question and answer round after each session started a dialogue between the esteemed speakers and the listeners. Which facilitated listeners to narrate their real life issues and get a better prospect at overcoming further instances of the same problem.

SUSTAIN Workshop

- **Date:** 21st - 22nd May 2022
- **Venue:** Online
- **Target Audience:** College students, Industry Professionals
- **Plan:** We organized the SUSTAIN workshop on 21st and 22nd May on three software with industrial experts. The workshops aimed at teaching Climate Consultant, PVsyst, and Design Builder starting from the basics which the team used while designing Project Vivaan. The industrial experts began with the introduction of the software and built the concepts concerning technology.
- **Impact:** Provided professional training in softwares relevant to the construction industry to 200+ engineering and polytechnic students.

School Seminars and Competition

- **Date:** June 2022
- **Venue:** Witty International School Mumbai, Children's Academy Mumbai, Convocation Hall IIT Bombay
- **Target Audience:** School students
- **Plan:** We conducted seminars for 3 schools in Mumbai, namely Witty International School, Childrens' Academy and Kendriya Vidyalaya Powai. These seminars were specifically designed for school students of ages 13-16, and focused on the importance of sustainability and renewable energy. We also explained about our project in such a way that it will gauge their interest and inspire them. This was followed by a short quiz and the top scorers from each school were invited to IIT Bombay for an engaging debate competition. The winners were provided with trophies.
- **Impact:** More than 2500 school students were part of this initiative as they get the opportunity to know the research we did and upgrade their knowledge in the field of sustainability and renewable energy.



SUSTAIN Newsletter

- **Date:** 31 July 2022
- **Venue:** Lecture Hall
- **Target Audience:** Engineering pupils from distinct colleges/ universities, Team SHUNYA members, Peers from the institute, Faculty members of IIT Bombay
- **Plan:** We launched our first edition of Newsletter SUSTAIN to represent the continuous efforts of the team to educate the people about sustainability. For the newsletter launch event, we invited Mr. Durgesh Maru, CEO of Suninfra Technologies and Mr. Jaideep Hardikar, journalist to share their experience on Net Zero Targets and the fight against climate change and to achieve Sustainability through the paper media respectively. The newsletter was published online, shared with the professors, deans of IIT Bombay, placed in student hostels, and also shared with our Industry partners for outreach.

- **Impact:** More than 500 people were part of this SUSTAIN Newsletter and later they showed their interest by sending us some articles related to sustainability and climate change.



National Tree Plantation Drive

- **Date:** 15 August 2022
- **Venue:** Hostels at IIT Bombay, IIT Guwahati, IIT KGP, Meghnad Saha Institute of Technology, Buildings in Hiranandani,
- **Target Audience:** Students, Local Residents
- **Plan:** On occasion of the 76th Independence day, we conducted a tree plantation drive nationwide across many institute bodies and apartments of Hiranandani, Powai in collaboration with NSS and Sustainability Cell at IIT Bombay and NGO Greenline, Technology Environment at IIT KGP, Social Service Club and Student Welfare Board at IIT Guwahati and Rotary Club at Meghnad Saha Institute of Technology.
- **Impact:** We planted more than 250 plants across the country aiming to make India green.



SUSTAIN 3.0

- **Date:** 29-30 October 2022
- **Venue:** VMCC Building, IIT Bombay
- **Target Audience:** Students
- **Plan:** We conducted the third edition of our flagship event 'SUSTAIN 3.0' with a range of events spread across different areas of sustainability and a vibrant display of industries, startups, NGOs, and many more sectors. On 29th October 2022, we invited Mr. Rakesh Bhatia, Vice President at Ecofirst Services Limited for a SUSTAIN pre-launch workshop on Net Zero Energy Building and the science behind it. On 30th October 2022, we invited Dr. Ravindra Singhal, IPS Officer and Mrs. Vinita Vaid Singhal for SUSTAIN launch followed by Technical Exposition by Mumbai Engineering Colleges Tech Teams. Then we organized a hands-on workshop for school and college students where they will learn how to make solar lamps under expert guidance. After that, we had an insightful panel discussion and industry lecture on 'Solar Roof top with Sustainable Construction' and for that we invited Prof. Juzer M Vasi, Principal Investigator of 'National Centre for Photovoltaic Research and Education' at IIT Bombay, Pratibha Pai, founder and director of Chirag Rural Development Foundation, Mr. Rakesh Bhatia, Vice President at Ecofirst Services Limited. And the day ended with a knowledge sharing and interactive SUSTAIN Talks on Sustainability with Dr. Aditi V Mishal, Chief Sustainability Officer and Dean of Edu Initiatives at Govardhan Ecovillage, India.
- **Impact:** Impacting more than 5000 students from this event as they got a chance to interact with highly educated professionals, made their own solar lamps for their use as their first step towards

PG Tech Weekend

- **Date:** 30th January 2021
- **Venue:** Online
- **Target Audience:** Postgraduate students of IIT Bombay
- **Plan:** We organized two technical sessions:
 - Talk on AI and Society by Prof. Anupam Guha, Professor at Centre for Policy Studies, IIT Bombay
 - Talk on AI and Construction Management by Mr. Ankan Karmakar, Project Engineer of Team SHUNYA and Ph.D. Scholar at Civil Engineering Department
 - This was followed by an engaging crypt hunt game for the students.
- **Impact:** Engaged about 50 postgraduate students of IIT Bombay with technical topics of their interest and an interesting crypt hunt game.

UG Orientation

- **Date:** November 2021
- **Venue:** Lecture Hall

- **Target Audience:** Freshmen of IIT Bombay
- **Plan:** We conducted an online session for the undergraduate freshers of IIT Bombay, wherein we explained to them about the team's objectives, activities, structure in order to gauge an overall interest among the freshers about the team and how they can join in and contribute.
- **Impact:** Spread awareness about sustainability among 150 students through our projects and converted them as trainees in our trainee program.

Collegiate Competitions

- **Date:** 1st February 2023 - 28th February 2023
- **Venue:** Online
- **Target Audience:** School Students
- **Plan:** We conducted a 'Design and Write to Sustain' competition for school students to inculcate the notion of sustainability among young minds where we released a problem statement in a Google form and the students registered for each competition and prizes were given to top performers.
- **Impact:** 10 students showed their interests and threw some flash light on sustainability by their articles and designs.

Project Vivaan Exhibition

- **Date:** 11th March 2023 - 18th April 2023
- **Venue:** Team SHUNYA Construction Site, IIT Bombay
- **Target Audience:** Students, Peers, Industrialists, Local Residents
- **Plan:** We conducted 'Vivaan Exhibition' for about 40 days where we invited various schools, colleges, NGOs, news channels, industrialists, so that they can get to know about various technologies and materials used during construction. For this, Campus School and KV IIT Powai, AP Shah Institute Of Technology, Sardar Patel College of Engineering, ASHRAE and ISHRAE Ratnagiri, Aaj Tak, India Tv, TV9 Network, Mr. Durgesh Maru, Co-founder at SunInfra Energies, joined us to know in depth about Team SHUNYA and our previous projects.
- **Impact:** We influenced more than 30,000 people to build their better future keeping sustainable and these projects demonstrate them many opportunities to tackle climate change emergencies.



Marketing Activity

Presentations

- **Date:** September 2021
- **Venue:** Online + Offline (Hybrid mode)
- **Target Audience:** Students, Industry Professionals, Academia
- **Plan:** We gave a presentation about the team, its activities, previous projects and Project Vivaan at the following organizations:
 - Indian Institute of Information Technology, Design and Manufacturing, Jabalpur
 - ASHRAE (American Society of Heating, Refrigerating and Air Conditioning) Student Chapter, Lokmanya Tilak College of Engineering
 - Construction Management Studio Course, IIT Bombay
 - Energy Day (Department fest of the Department of Energy Science and Engineering, IIT Bombay)
- **Impact:** Created awareness about the team to about 350+ students, industry professionals and professors



Campus Ambassadors

- **Date:** March 2022 - March 2023
- **Venue:** Online + Offline (Hybrid Mode)
- **Target Audience:** Students and candidates from various academic fields, scholars and other professionals
- **Plan:** Through proper screening and observing documents we identified potential candidates from distinct institutions that will be suitable for furthering the aims and motto of Team. Further, it helped in raising awareness among people in the field of sustainability and related concerns. By means of this program students were made

representatives of Team in their respective institutes and regions. Student candidates acted as active participants, rather than mere passive listeners, and helped in ideating, planning, organizing, and promoting the events of Team. They helped in the outreach program of Team and publicizing the events through social media handles, posters, pamphlets, and organizing competitions and challenges at institutional level. A proper feedback system was maintained in place for their complaints and discrepancy-related issues, which aided in the program's efficient execution.

- **Impact:** We had about 150 campus ambassadors all over India in the first and second cohort of the program. We were able to tap into the student community all over India for our various events and outreach activities. The time spent by student candidates with the Team in meetings, and personal communication has helped them better understand the prospects, values and cultures of the work space.

Trainee Program

- **Date:** April 2022 - Sept 2022
- **Venue:** Online + Offline (Hybrid Mode)
- **Target Audience:** Freshers of IIT Bombay
- **Plan:** We conducted a 6-month long trainee program for the freshers of IIT Bombay. This program comprised two phases:
 - Online mode: The trainees underwent online technical training specifically designed for them comprising basic training about sustainability and green buildings in the Indian context.
 - Offline mode: Following an informal meet-and-greet session, the trainees underwent offline training pertaining to each subsystem of the team, specifically mechanical, electrical, civil, sponsorship and communication.
 - The trainees were provided with Team SHUNYA merch for team building as well as promoting the team's name within the campus. This program was followed by recruitment of the trainees into various subsystems of their choice.
- **Impact:** We provided basic training to about 60 freshers of IIT Bombay. 15 of the trainees successfully completed the recruitment process involving assignments and interviews and now are members of Team SHUNYA.

Internal Communication

Alumni Meet

- **Date:** August 2021
- **Venue:** Project H-naught, IIT Bombay
- **Target Audience:** Team, Alumni of the team
- **Plan:** We met with the team members of Team SHUNYA from previous competitions in order to gain their valuable insights on our project, discuss how we can move forward, and get tapped into their network as most of them have established connections within the industry, academia, etc. They presented us with valuable insight on the problems they had faced during their projects and mentioned the solutions which can be put in place before the issue becomes major.

- **Impact:** Received impact of industries and experts and knowledge exchange to ease out the current project.

Team Building + Construction Training

- **Date:** November 2022
- **Venue:** IIT Bombay
- **Target Audience:** Team members
- **Plan:** We conducted on-site construction training for the team and several informal team meets.
- **Impact:** Helped enhance team bonding.

Summary of team successes

Team SHUNYA, or the family of Team SHUNYA, has been urging since 2012 for better family living conditions in this fast-urbanizing risk-prone world. With the impetus coming from this increasing crisis and the post-pandemic world, Team SHUNYA renewed its outreach program with the onset of the year 2021. Team SHUNYA in its outreach program, caters to this lacuna in the discourse and acts as a bridge for the stakeholders to understand resiliency.

The purpose of our outreach program has created a positive impact in the world while also increasing the team's visibility and effect. Concisely, with the proactive effort to engage with stakeholders, such as families, partners, and communities, it has built relationships, pioneered dialogue with people, enhanced reputation, and driven sustainable outcomes. The program has offered a range of activities, including academic support, recreational activities, and mentorship. It has fruitfully initiated through informative and engaging content regularly to provide a dose of sustainability with the refreshing evening cup of tea and mild breeze. Supplementing this, creating a free public sphere through social media handles, where questions are raised, solutions are problematised, information is shared, and knowledge is created. The team is working in this direction of acclaiming 'Another possible is possible', and with the ever-evolving world, the attitude needs to be changed. Indeed, in these times of rising carbon content, engulfing black clouds of smoke, devastated natural resources, and distressed nature, Team SHUNYA has grown again with the motto of shining light on these issues and providing a heartfelt solution through its project Vivaan.

Team SHUNYA is moving ahead at a great pace, with a head higher today than ever. It also lends its credit to the events that were organized frequently within regular intervals. Whether building community, raising awareness about important issues, or celebrating special occasions, events can bring people together and create lasting memories. With the same zeal, 'SUSTAIN', Team SHUNYA's flagship event, which was renewed for its third edition, has acted as a bulwark in creating awareness, starting a dialogue and attracting people from distinct backgrounds in the fold of sustainability. The team has closely worked with esteemed personalities, professionals, industrialists, activists, and environmentalists in sustainability and housing. It has tailored the events aligning them to the needs of the contemporary world and the team's vision of a resilient future.

Additionally, the dedication and commitment of student volunteers have been the essential factor that can not go unmentioned. Their passion for the program and willingness to go above and beyond to ensure its success has proven nothing less than commendable. Spending countless hours organizing activities, creating informative, educational material, and providing one-on-one support to the student candidates through Campus Ambassadors Program, Team members have made a positive impact. This is quite visible through the statistics of people engaged and their evaluative attitude towards housing and lifestyle. Hence, the team has successfully improved lifestyles by enhancing the housing scenario and is moving forward to creating informed and aware urban citizens.

Along with organizing the event, marketing actively, demonstrating and communicating it through conventional media, finally consolidates it. Therefore, the need arises to enrol as a campus ambassador. With the 150+ campus ambassadors of institutions from all over India, the message of sustainability is successfully coordinated with them and their stakeholders through them. Further, working in tandem with the conventional media to showcase the team's activities has attracted people's attention and engendered issues that require thoughtfulness within them. Displaying the various technological modifications in the housing sector, showing the team's own-built HVAC system and vernacular architecture of the house, using social and conventional media, desirable societies and student chapters have been mobilized.



Overall, the successful completion of the program lays its credit to the careful planning, event promotion, media marketing, contacting sponsors and execution by the Team members. Hence, it has unfolded as an enjoyable and meaningful program that has succeeded in realising the team's vision and creating impact. Moreover, the success of this program serves as a model for other further engagements and organizing similar programs and highlights the importance of careful planning and attention to detail.