AVIVA

YOUNG TALENT HUNT

PRESENTS

ECO PACE

REFORM THE LIFE & LIVING

RATHINAM

RATHINAM SCHOOL OF ARCHITECTURE

AIC RAISE

Supported by Atal Innovation Mission, NITI Aayog, Govt. of India

CELEBRATING 50 YEARS 1973 - 2022

Registration Date:
Jan 20TH TO Feb 15TH, 2023

Submission Date:
12TH March , 2023

Help us to change the way we build
: towards healthy and sustainable homes.

FOR REGISTRATION DETAIL AND PROJECT BRIEF PLEASE VISIT US ON:

rathinam_rsa

https://aviva-arch.netlify.app/

INTRODUCTION

With the increasing demand for green buildings, it is vital to understand the right approach towards constructing such structures that would minimize the detrimental impacts of construction on the planet, while creating a healthy and comfortable living/working environment with zero or minimal incremental cost.

A green building has lower resource consumption as compared to conventional buildings, while enhancing the overall health and well-being of the users. There are a number of tangible and intangible benefits offered by green buildings.

Green buildings consume 40% to 60% (depending on the range of measures adopted) lesser electricity as compared to conventional buildings. This is primarily because they rely on passive architectural interventions in the building design, with highly efficient materials and technologies in the engineering design. For meeting the energy needs, they attempt to work towards on-site energy generation through renewable energy utilization. For instance, solar thermal systems can help generate hot water and replace the conventional electrical geyser in the buildings. Solar PV (photovoltaic) panels or Building-Integrated Photovoltaics (BIPV) can help generate electricity which can reduce the buildings dependence on grid power. They consume 40% to 80% (depending on the range of measures adopted) less water as compared to conventional buildings. By utilizing ultra-low-flow fixtures, dual plumbing systems, waste water recycling systems, and rainwater harvesting, these buildings not only reduce their demand for water but also consider on-site supply options to cater to their internal and external (landscape) water demands. Additionally, green buildings generate less waste, lesser air, water, and soil pollution both during construction and operation.

It also accounts for proper safety, health, and sanitation facilities for the construction workers (during construction) and the occupants (while in use). It restricts the use of high Ozone Depleting Potential (ODP) substances in their systems as well as in the interior finishes. The return on investment in green buildings is fast, by virtue of lower maintenance and energy costs as compared to the conventional buildings and offer branding opportunities and an edge over others in the market.

AIMS & OBJECTIVES

- Green Building promotes the efficiency of buildings with regards to the use of water, energy and materials while reducing the building's impact on individual's health and the environment through better design, construction, operation, maintenance and removal.

- The related concepts of sustainable development and sustainability are integral to green building. Effective green building can lead to...
  - Reduced operating costs by increasing productivity and using less energy and water.
  - Improved public and occupant health due to improved indoor air quality.
  - Reduced environmental impacts , for example, reducing storm water runoff and the heating effect.
  - Providing opportunities for increased materials reuse and recycling.
  - Improving reliability, lowering maintenance needs and costs, and creating greater user satisfaction.

- Design an sustainable house in POOJA'S ICONIC CITY 8cents @Rathinam tech zone campus, Eachnari.

- Sustainable houses are those that, being respectful of the environment, take advantage of all available resources to reduce energy consumption and, therefore, help save on household bills, something that is always appreciated.

BRIEF

- AWARENESS: Understanding and researching in-depth into the issue that is caused due to the need for expansion.

- CONTEX CONSCIOUS: Study the vernacular and sustainable construction methods and building materials that can be used to create the symbiosis that exists without harming.

- CLIMATE RESPONSIVE: Study the climate of the context with respect to its extreme and normal weather conditions. As the rainforest offers an extreme context through various aspects.

- COMPACT: Understand the scale required to be built and the scope and limitations the context offers.

NOTE - The above objectives can be a point of beginning to conceive this design. Participants can assume their contexts and user group on the basis of their concepts and designs.

SITE SPECIFICATIONS

Site location - coimbatore ,tamilnadu
Site co-ordinates - 10°55'48" N
76°58'31" E
Site Area - 3484 SQFT (8cents)
Margins - please refer the autocad file.
Maximum no. of floors - G+2
FSI (Floor Space Index) - 1.5
Plot coverage - 60%

Note - A google map image of the site is attached to the competition brief folder on the website. we request the participants to download it for your reference .

SPACE IDEAS

- Living room
- Kitchen &Dinning
- Bedrooms
- Washrooms and Toilets
- Balcony
- passage

Note - These are basic ancillary spaces required for a family. The location and design-specific spaces can be added to the design according to the participant's choice.

GUIDELINES & RULES

- You have to deliver an architectural outcome on the following site, based on the given outlines.

- Recommended number of sheets/presentation images/boards: 6 (Six) of size [420mm x 594mm] [A2]in portrait/landscape format (JPEG only).

- Minimum 6 (six) & No maximum sheet limit. Each image should be less than 15MB. (Do not submit PNG format) Minimum requisite submissions are sheets/boards + Cover image containing:
    - Site plan (Compulsory)
    - Conceptual x 1 (Minimum)
    - Section & Elevation x 4 (Minimum)
    - Walkthrough Minimum 2 Minutes
    - 3D Views, perspective and any other means may be used to explain the design proposal.

- The competition is open for students from all the disciplines.
- The team limit for this competition is 4members maximum per team.
- This is design ideas challenge only.
- There is no built commission/realization associated with the problem.
- Ensure that the final sheets submitted include your name.

JUDGING CRITERIA

The entries will be judged by an jury of the competition on the following criteria:

- Presentation: The fundamental to a good entry is a visual delivery of ideas.
- Concept/Idea: Quality of thought and intent in the pre-design phase.
- Spaces/Programme: How the spaces are calculated and ordered.
- Design Outcome: The final architectural outcome of the solution.\ The judging panel can also add other criteria based on their internal discussions - which will be in line with the problem statement. Participants are advised to fulfil above given criteria first in their design. Names of the jury panel will be announced soon.

SUBMISSION GUIDELINES

- Read all the competition rules and details from above the sheets.
- Submit your softcopy to this mail id (submissionsrathinam@gmail.com)

SCHEDULE

RELEASE OF BRIEF	:-	20TH JANUARY 2023,FRIDAY
REGISTRATION DEADLINE	:-	15TH FEBRUARY 2023,WEDNESDAY
QUERIES DEADLINE	:-	22ND FEBRUARY 2023,WEDNESDAY
SUBMISSION DEADLINE	:-	12TH MARCH 2023,SUNDAY
WINNER ANNOUNCEMENT	:-	15TH MARCH 2023,WEDNESDAY

REWARDS & RECOGNITIONS

WINNER

FIRST PRICE

INR 10000
CERTIFICATE + PUBLICATIONS

RUNNER

SECOND PRICE

CERTIFICATE

+ 2 SPECIAL MENTIONS

30' FEET EXISTING ROAD

PROPOSED
DESIGN
SITE NO
12& 21