



**NATIONAL ASSOCIATION OF STUDENTS OF ARCHITECTURE**  
HUDCO TROPHY | 2024-2025  
EXCLAIM!



## About NASA India

The National Association of Students of Architecture (NASA India) is one of the largest architectural student organizations in the world with student participants from more than three hundred colleges all over India and countries around the world. The main objective of NASA India is to create a platform for architecture students to learn and interact, engage them directly and indirectly through both online and offline platforms. NASA India conducts events, conventions, seminars, workshops, design competitions and trophies, and many other activities.



### Exclaim!

#### **Choose between being a goat in a herd or the king of the jungle as a lion.**

I believe that most of us choose architecture as the path to break away from the conventional routes of engineering and medicine. It's a pursuit fueled by the desire to showcase one's unique ideas, creativity, and innovation. Many of us carry dreams of designing landmark buildings in the cities or villages where we were born and raised, making pursuing this lengthy professional program.

However, the obstacles that a student architect faces in India are sadly numerous. These includes the demanding nature of the course, navigating through assessments that balance creativity and innovation, limited exposure to professional practice within a six-month timeframe, inadequate or nonexistent compensation for interns, and witnessing unhealthy working conditions.

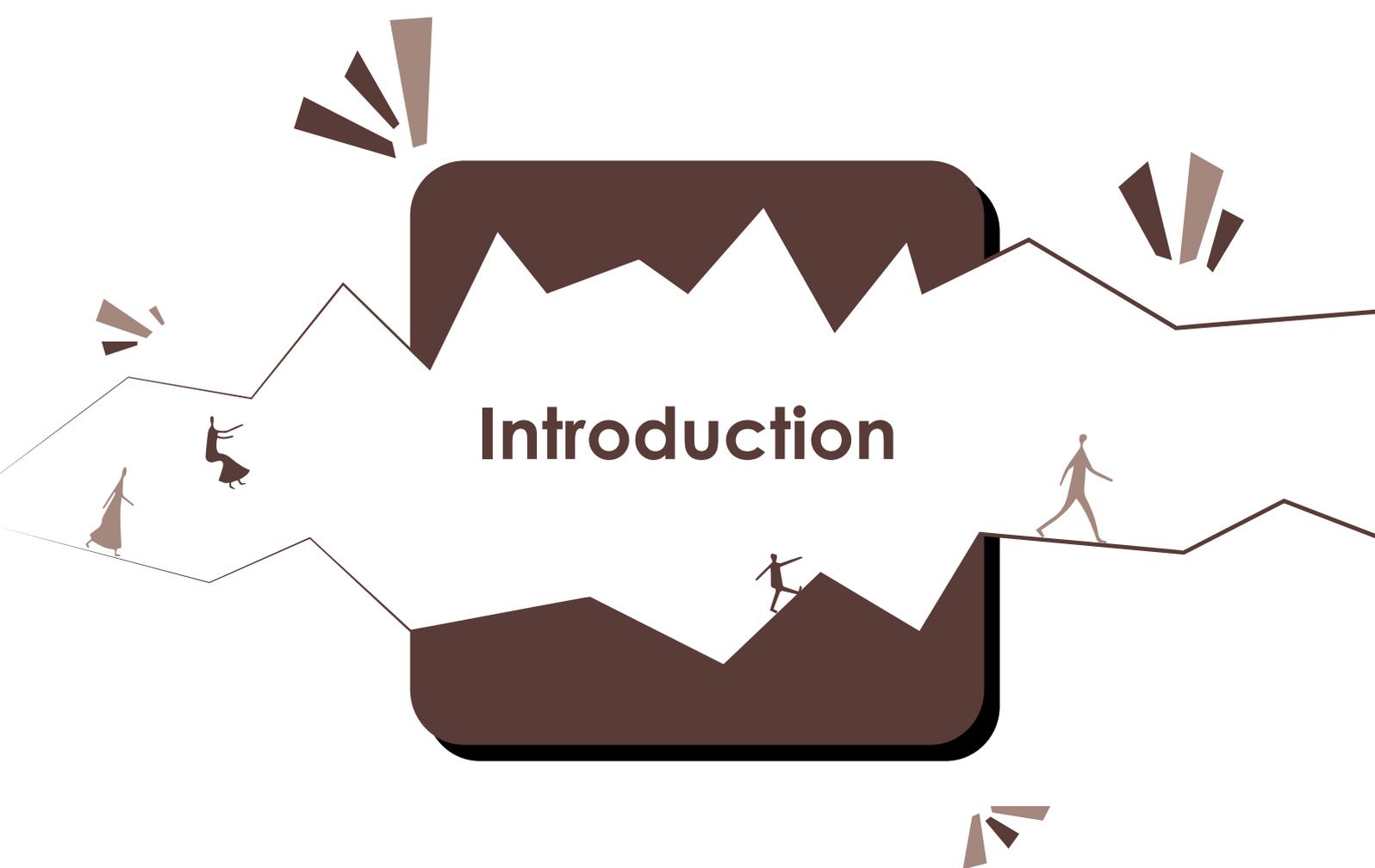
Yet, for aspiring architects in India, the road is riddled with challenges. From the intense demands of the course which eventually bounds creativity and innovation between juries, the journey is far from easy, limited exposure to professional practice within a sixmonth timeframe, inadequate or nonexistent pay for interns, and witnessing unhealthy working conditions adds to the struggle.

In the face of such obstacles, many find themselves questioning their choices and seeking alternative paths. It's not uncommon to see architecture graduates ending up in IT roles and other such irrelevant platforms.

#### **Did they choose to be a lion only to find themselves relegated to the role of a goat?**

With the staggering pace of urbanisation and its consequential social and environmental concerns, the necessity for architects is indisputable. However, do we possess sufficient awareness of architecture within the *grassroots* of the society? Can we *envision* architectural education as accessible and affordable for all? Will our curriculum provide enough autonomy to both institutions and students to ensure the quality of architectural education in India?

I call upon all members of the National Association of Students of Architecture to participate in the assemblage with like minds and deliberate upon the array of prevalent issues and potential solutions. Together let's **Exclaim for reform** and ensure a brighter future for the architecture fraternity in India!



# Introduction

## HUDCO TROPHY

### Designing affordable and sustainable Rental Housing using innovative technology

In recent years, there has been a significant change in scenario: the way people live, work, and interact with their living spaces due to higher living expenses and competition. With the rise of urbanization, increasing housing costs, and changing lifestyles, rental houses have emerged as a practical and appealing housing option because of affordability, convenience, sustainability, and flexibility. It is ideal for students, working class, young professionals, etc. who want a low maintenance and affordable living arrangement at the same time with latest innovative technology. A large number of people migrate in urban areas for employment / educational purposes or in pursuit of better lives who may not want to invest in self-purchased houses or apartments. Thus, there is a significant requirement for affordable rental housing and considerable scope for innovation and improvement in this area so as to provide shelter to people who cannot settle in a particular place permanently.

The Ministry of Housing and Urban Affairs (MoHUA GoI) has initiated the Affordable Rental Housing Complexes (ARHCs) as a sub – scheme under the Pradhan Mantri Awas Yojana – Urban (PMAY – U) which is being executed through two models : In model I, the existing government constructed homes will be put to rental use, and Model II, would involve construction, operation and maintenance of ARHCs either by public / private entities on their available land and shall consist of both single and double bedroom accommodation, with living room, kitchen, bedroom and toilet.

The HUDCO Trophy 2025 aims to further look beyond the existing models, focusing on sustainable and affordable rental housing solution using innovative technology. In order to fulfil the increasing demand, the topic ‘Designing affordable and sustainable Rental Housing using Innovative technology’ has been chosen to explore the detailed concept of rental housing for the students and young professionals. In keeping with this theme for the trophy, the young generation of architects are encouraged to consider site-specific factors such as climate, cultural context, and available resources while developing their proposals. The ideal design will not only provide affordable rental housing but also set a benchmark for sustainability, community inclusivity and technological integration.



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# The Task

## Objectives

The overarching objective of HUDCO NASA India Design Trophy 2025 is to have comprehensive understanding and to develop design ideas for the rental housing in urban areas at three different levels:

- i. The dwelling unit level,
- ii. At the level of the immediate community formed by the clustering dwelling within a neighbourhood and the indoor/outdoor spaces they share, and
- iii. At the level of the site plan.

The specific project objectives, call for

- Using the concepts of affordable, sustainable, community inclusivity, and environment friendly housing.
- Provide shared interaction space within site plan.

## Aim

The aim of this theme is to explore innovative and sustainable rental housing for students and young professionals in keeping with the concept of 'for the Youth, by the Youth'.

## Design Brief

HUDCO through the HUDCO - NASA India Design Trophy 2025 invites student architects to provide design solutions to build healthier, modern, efficient, and comfortable dwelling units, which are ideally suitable in the climatic conditions of the place where the site is chosen and will cater to the needs of students and young professionals. Students will be required to understand the diverse needs, analyse the challenges, functions and to provide solutions accordingly.

## Selection Criteria

The merit of the competition entries will primarily be evaluated based on deliverables:

1. A modern, efficient, and comfortable rental housing designed to develop an environment that fulfils the present needs of urban living while maintaining affordability with forward looking architectural solutions typically driven by practical needs.
2. Consideration of optimization of space, flexibility, sustainability, aesthetic appeal.
3. Designed to conserve resources, featuring rooftop solar panels, grey water systems, rainwater catchment systems, and an envelope designed for passive heating and cooling.
4. Basic architectural design decisions, such as building orientation, configuration, selection of building materials, and broad estimation costing, etc.
5. A detailed report outlining the concept/ strategy used for construction of rental housing.
6. Documentation of project requirements based on detailed case analysis and project site requirements.
7. Innovation / creativity and detailing that suits the needs of the project.
8. Working on interior spaces.
9. Effective integration and management of common facilities, spaces, and services.
10. Suitability to the specific geo – climatic requirements.

## Site Selection

- The choice of city for the proposed design should be any Class I city in India.
- Site can be any site earmarked by the respective urban local body for housing in Master plan /Zonal plan of the respective city chosen.

## Design Parameters

- Size of plot 3000 - 5000 sqm.
- Maximum Ground Coverage 35%
- Maximum FAR 1.75
- Maximum Height 15 m (plots up to 4000 sqm), 26 m (plots above 4000 sqm)
- Parking as per norms
- Each house will be self-contained and include living space, dining space, kitchen, bedroom, and toilet
- Mix of one Room set/1 BHK/2 BHK and dormitory of 4 / 6 beds including all common facilities

### Other Controls for rental housing:

- Basement, if constructed, and used only for parking, utilities and services shall not be counted towards FAR.
- A "Rational Development Strategy" outlining :
  - o Rental Cost and affordability aspect
  - o Regulatory mechanism for the operation and maintenance of common services through collaborative efforts for service efficiency.

Note: NBC norms and the Local Building Byelaws may be referred.

The project should have provision for:

- Sewerage treatment plant (STP)
- Electric substation (ESS) and power backup/Gen. set for common/core areas.
- Energy-efficient systems: LED lighting, low-flow fixtures
- Renewable energy: Roof top Solar panels, Solar Street lighting
- Water conservation: Low-flow showerheads and toilets
- Recycling and waste management: Recycling facilities and composting
- Indoor air quality: Ventilation systems
- Technology: High-speed Internet, TV, and phone connectivity
- Security: Access control, CCTV cameras, and secure entry systems
- Additional common facilities such as lounge, gym, rooftop garden, etc.
- Pedestrian and vehicular access, parking, etc. and other facilities as deemed necessary.



# Guidelines

## Submission Requirements

The scale of the drawings is left to the discretion of the participants.

- Participants may use views, perspectives and any other means felt suitable and relevant to explain the design proposal.
- The **number of presentation slides/panels should not exceed 20 of A2 size.**
- The presentation should be supported by a **report (Maximum of 15 A4 size pages)** providing design brief, design options and concept as in earlier Section of Selection criteria .
- All entries must be prepared using metric units of measurements.
- The presentation/report must mention the source, where applicable.

## Checklist for submission

1. Online Submission of Sheets in form of PDF
2. Online Submission of Report in form of PDF
3. Original Copy of Authentication Letter
4. Original Copy of Declaration Letter
5. Editable Format of the Sheets (Applicable if shortlisted)

## Sheet & NASA India Logo Guidelines

Failing to comply with any of the guidelines may lead to disqualification at the discretion of the executive council.

- NASA India Internal Logo shall always be placed on the right-hand bottom corner of the sheet.
- NASA India logo should not be merged, overlapped etc. with any sort of text, graphic, image, etc.
- NASA India logo should be in true black with a perfectly white background.

• **Sheet Template to be followed is available in the drive link -**

<https://drive.google.com/drive/folders/1HFUe8vY6npUg4kRv2vD6uoe0vNft5MR1?usp=sharing>



# General Submission Guidelines

Failing to comply with any of the guidelines may lead to disqualification at the discretion of the executive council.

- All text should be in English.
- The projects should use the decimal metric system and contain a metric graphic scale in order to enable publication in reduced formats.
- The format of the sheets should clearly mention the name of the trophy followed by the year i.e. "HUDCO Trophy 2024-25"
- The format of the sheet should contain a square box of 25mm\*25mm at the bottom right-hand corner, next to the NASA INDIA logo which should have the unique registration number allotted to the participants after registrations.
- 10MM White margin is to be left on all sides of A1 sheets.
- The scale is left to the discretion of the participant(s) to the condition that the scale should be in metric system and all the drawings should be clear and legible.
- Manually rendered entry should be scanned at least in 300\*300dpi (dots per Inch) resolution.
- The soft copy (non-editable format) of the sheets along with authentication letter, declaration letter and any other required documents prescribed in the submission requirements should be uploaded on the website by the submission deadline.
- The soft copy file of the sheets should not be corrupted or incomplete or in low resolution.
- It is mandatory to produce the original copy of the Authentication Letter for each entry (entry code should be mentioned if allotted) with the name of participant(s) and stating the unit will abide by whatever may be the final results and also agree that this entry is a property of both the institute and NASA India.
- The Authentication Letter should be signed by the HOD/Principal/Director of the unit.
- It is mandatory for the colleges to produce the original copy of the Declaration Letter for each entry (entry code should be mentioned if allotted) signed by the participants stating the work submitted is genuine and they have endorsed copy- rights for the same and to adhere by all the rules and regulations, jury process and the results.
- **Authetication & Declaration formats to be followed are available in the drive link -**  
<https://drive.google.com/drive/folders/1mschiSd0GIM4gjzg5914bdkUi54ZzluS?usp=sharing>
- The Prize Money Authenticating Letter signed by the Director/ Principal / HOD in the college letterhead specifying the account details ( Account Name, Account Number, Bank Name, IFSC Code) in which the money is to be credited for each entry (entry code should be mentioned if allotted) shall be collected at a later stage.
- The working files in editable formats of the Shortlisted Entries should be submitted to the Council, failing which, the submission requirements would be deemed incomplete leading to the prize money being withheld.
- Shortlisted Entries with manual hand-done sheets should submit high quality scans (min. 300\*300dpi) along with the content in a word document of the shortlisted entries should be submitted to the Council, failing which, the submission requirements would be deemed incomplete leading to the prize money being withheld.
- Any misconduct such as exposing identity through college name/ stamp participant(s) name or college code on the sheets or the video will be disqualified.

## Other Information

- **Maximum One (01) Entry Will Be Accepted Per College For HUDCO Trophy.**
- Queries to be put forward through the trophy page on the website
- **Registration should be done by the Unit secretary in NASA India website before the registration deadline.** (<http://www.nasaindia.co>)
- Registration of the trophies will be final and cannot be changed or withdrawn henceforth.
- Late Registration and submission will not be entertained and henceforth the defaulters shall be disqualified.

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# Important Dates



Release of Brief  
**2nd April, 2025, Wednesday**

Queries Deadline  
**22th April 2025, Tuesday, 1800Hrs**

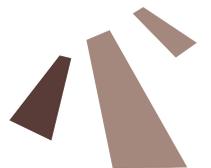
Registration Deadline  
**26th April 2025, Saturday, 1800Hrs**

Submission Deadline  
**20th May 2025, Tuesday 1800Hrs**



Prize money of **7 Lakh  
INR** is allotted

# Prize Money



# Moderator

## The Housing and Urban Development Corporation Ltd. (HUDCO)

The Housing and Urban Development Corporation Ltd. (HUDCO) is a government-owned financial institution in India that plays a vital role in promoting housing and urban infrastructure development.



Established in 1970, HUDCO operates under the Ministry of Housing and Urban Affairs and primarily focuses on financing projects that contribute to sustainable urban growth. It provides financial assistance for housing projects, with a special emphasis on affordable housing for economically weaker sections (EWS) and low-income groups (LIG). Additionally, HUDCO supports various urban infrastructure projects, including water supply, sanitation, transportation, and social amenities, to enhance the quality of life in cities and towns. The corporation extends funding to state governments, urban local bodies, and private developers, helping them implement large-scale housing and infrastructure initiatives. With a commitment to sustainability, HUDCO also promotes eco-friendly and energy-efficient building practices. As a Miniratna company, it continues to contribute significantly to India's vision of inclusive urbanization and "Housing for All."

### All the best!

Don't forget to follow our social media handles!  
Visit them by clicking the icons below



[www.nasaindia.co](http://www.nasaindia.co)

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