64TH NASA ANNUAL REPORT

(2021-22)



Annual General Body Meeting

The Unit Secretary and Unit designee attended the AGBM on 17th July and 18th July.

The elections were conducted for the selection of 64th year Executive council and zonal council.

- 27th July 2021
- 64th Year Annual Theme

64th Year Annual Theme | 2021-22



GRASSROOTS



GRASSROOTS

The association has for the last six and half decades grown strong and it has kept on reinventing itself with the changing times. With technology setting in, the size of our association becoming humongous and with Covid, we look towards a different horizon where NASA India isn't just about coming together and growing but it evolves into an organisation which reaches to you.

We have been, as an entity, have strived to serve the students. The side effect of that has been that we haven't been able to rally everybody around to be a part of this experience. We have been targeting an outreach towards our own members instead of having them along on our side and aim towards the betterment of our society.

This energy of 60,000+ members is not only to be reached out to but is to be channelled as well to community development. When NASA India serves our society and communities together, we will grow together. This paradigm shift is necessary at the National, Zonal and Unit Level. Each Unit should be volunteering and enriching communities around them, this will need proactive leadership and programs at unit and national scales.

Whenever something new is proposed in our association, we ask how can this help an architectural student? I suggest adding one more question to the filter, how can this help the society? I am certain that any experience gained through such a program with an architectural bent of mind will help a design student develop skills which would otherwise take decades to learn.

So, if this goal seems too steep to climb and this theme is supposed to invigorate you, I'd like to quote Jed Bartlet from West Wing,

"Never doubt that a small group of thoughtful and committed individuals cannot change the world. Because that is the only thing that ever has."

Off to the grassroots!

Simarjeet Singh Nagpal National President | 2020-2021 National Association of Students of Architecture, India simarjeet@nagpal.one





At Unit Level

20th August 2021

The Senior Unit Council had a meeting where we decided the tentative dates to send the forms for the Junior Unit Council selection. The dates were 28-29th August.

28th August 2021

The message containing the information and link to fill the forms for the interviews was circulated. The deadline was until 9pm on the same day.

2nd September 2021

The interviews were conducted on google meet.

4th September

Introduction to GSC (Global Sustainability Cohort)

5th September 2021

Junior Unit council is been introduced to the Senior Unit council.

7th – 9th September

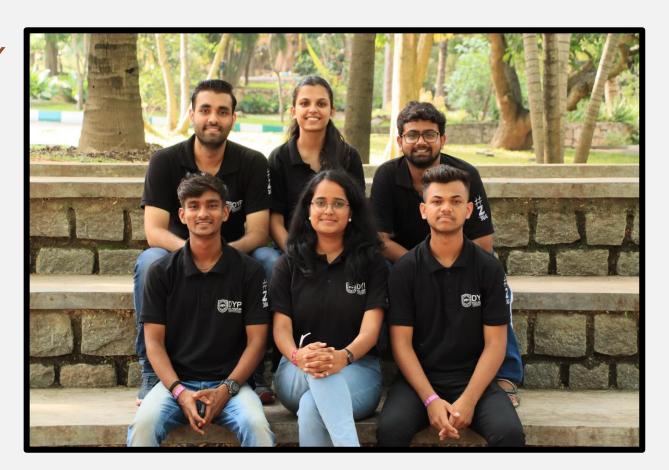
64th Year Zonal Council Meet- Zone 3

Constitution and amendments are discussed, basic NASA details was given to the Units.



NASA UNIT COUNCIL OF 64TH YEAR

- UNIT SECRETARY
 Himanshu Kene
- UNIT DESIGNEE
 Rutuja Patil
- ADVISOR Rohan Singh
- TREASURERS
 Rehan Bagban,
 Aditya Gavali
- PUBLIC RELATIONS HEAD Abolee Mali
- PUBLIC RELATIONS ASSOCIATE Yash Pawar







 NASA Day events conducted by Kolhapur sector units

(Z304,Z306, Z312, Z41, Z343, Z345, Z347,

Z351)

Photography Competition ON THE OCASSION OF THE NASA INDIA
FOUNDING DAY
WE INVITE ASPIRING STUDENTS TO
CAPTURE A STORY THROUGH THE
FRAMES.

JUROR,
KOLHAPUR AMATEUR
PHOTOGRAPHY ASSOCIATION

(i) kapa.photography

Ierms and conditions- Each participant can send only
one entry.
- If there are eny queries, contact
respective USEC.

Z3004 S. O. A. D. Y. P. C. E. T. KOLHAPUR
Z3006 S. P. S. M. B. H. C. O. A. KOLHAPUR
Z3006 S. P. S. M. B. H. C. O. A. KOLHAPUR
Z312 A. B. C. A. SANGLI
Z343 IDEAL C. O. A. KHONDIGRE
Z345 S. D. P. C. O. A. ISLAMPUR
Z351 D. Y. P. C. O. A. ISLAMPUR

PUT YOUR WORK IN FRONT OF THE BEST

AND YOURSELF IN SPOTLIGHT.

Comic
Design
Competition





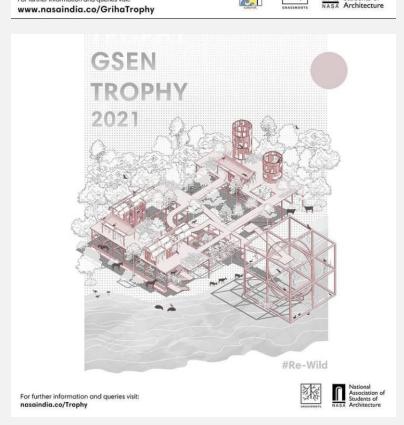
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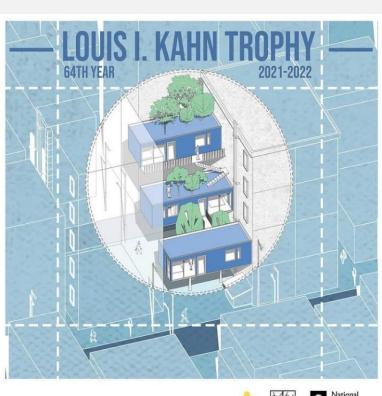




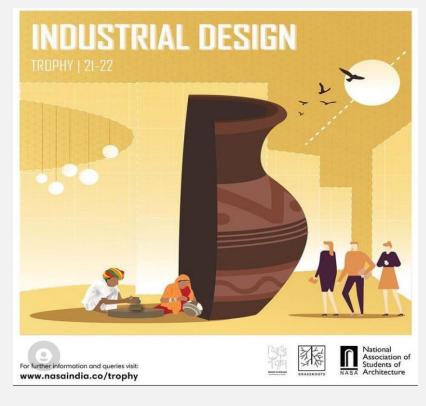
Trophies Released In 64th Year

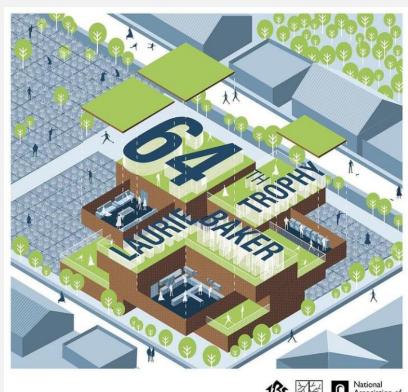














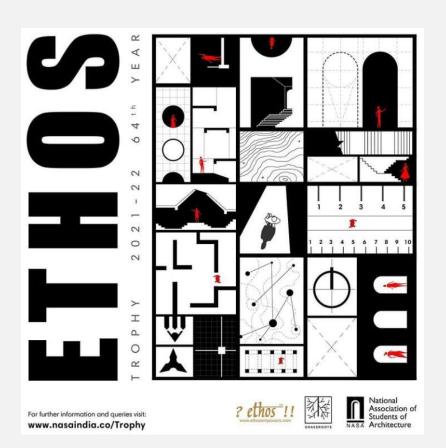
www.nasaindia.co/





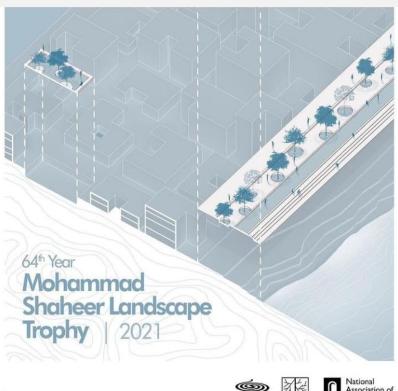


www.nasaindia.co/trophy









www.nasaindia.co/Trophy





National Association of Students of Architecture



more information contact: anshi Thakuriya lic Relations | 2021 - 22 7498447 munications@nasaindia.co







r more information contact: evanshi Thakuriya blic Relations | 2021 - 22 77498447





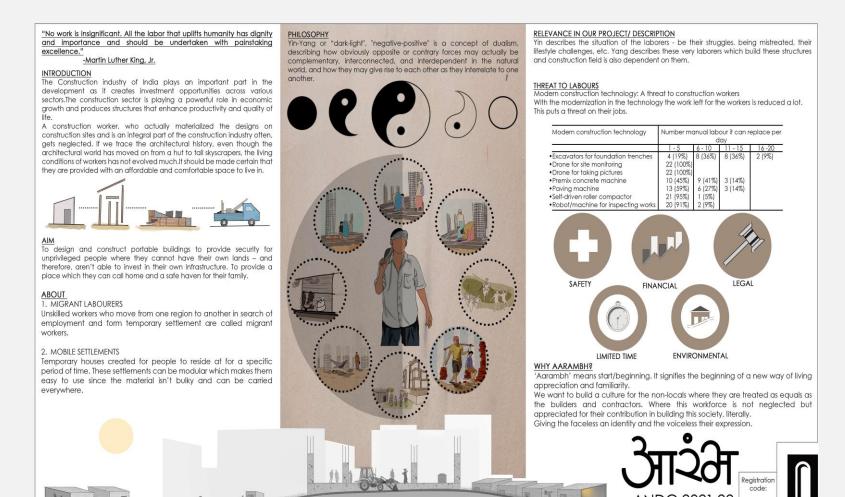


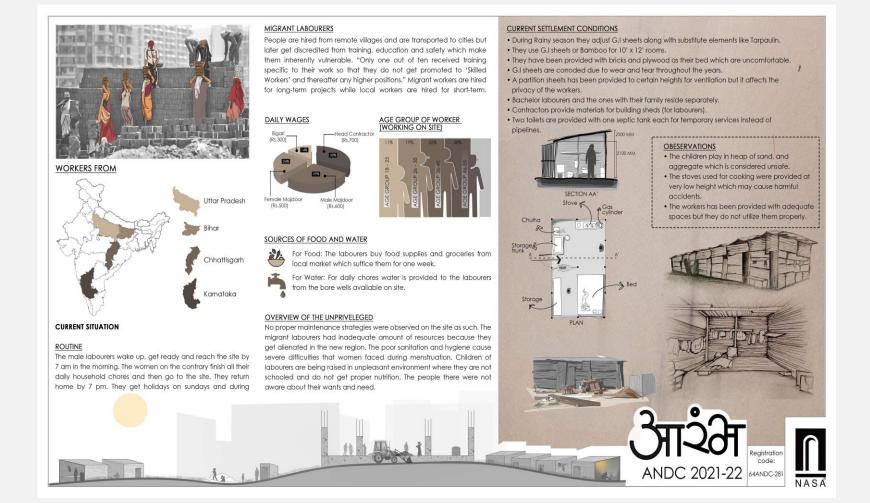


TROPHIES SUBMMITED BY OUR UNIT (2021-22)

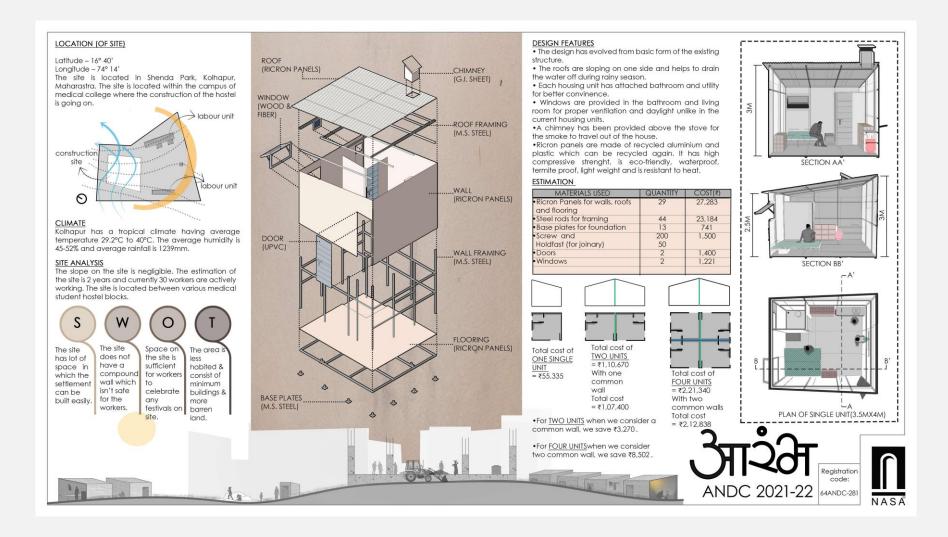


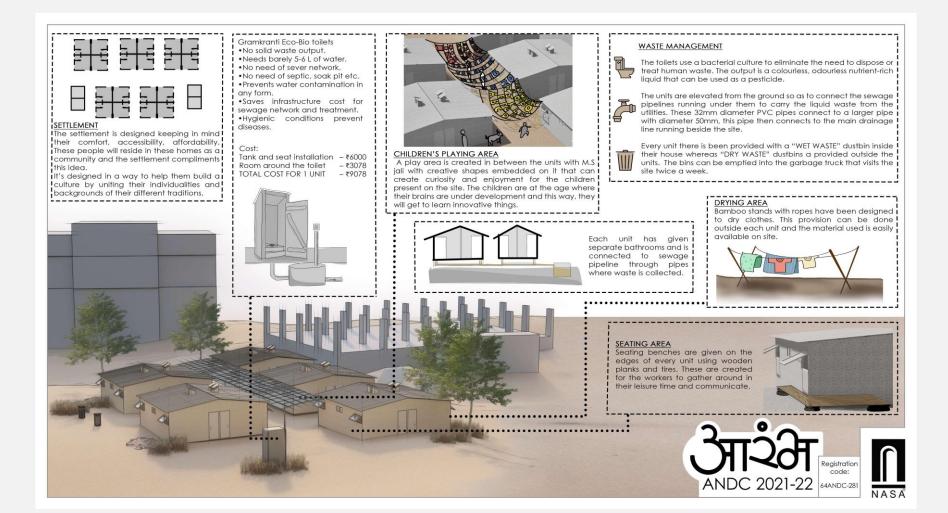
ANDC TROPHY SHEETS



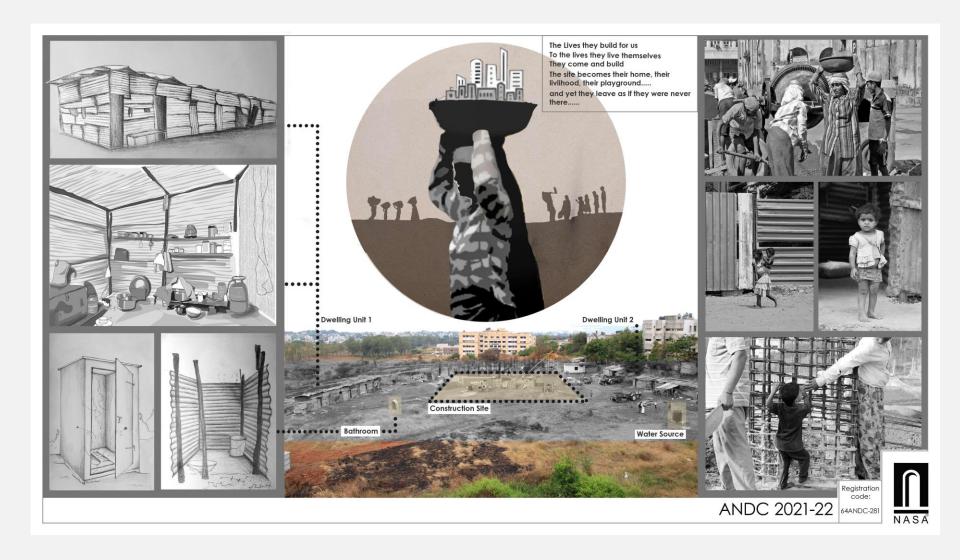


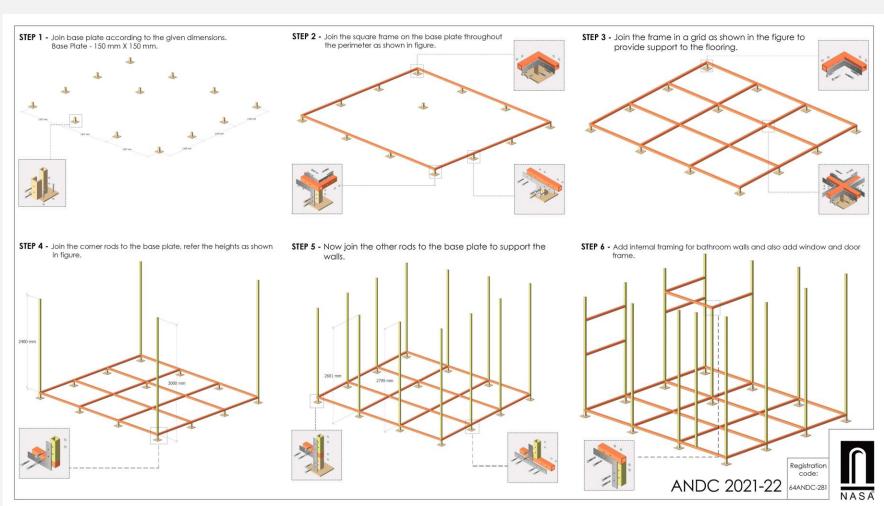
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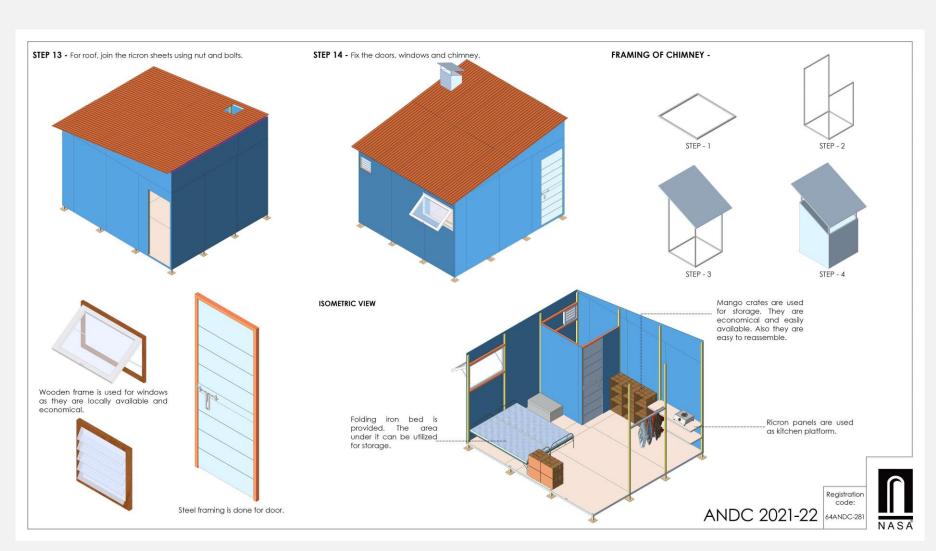
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ANDC TROPHY SHEETS





ANDC Trophy Team

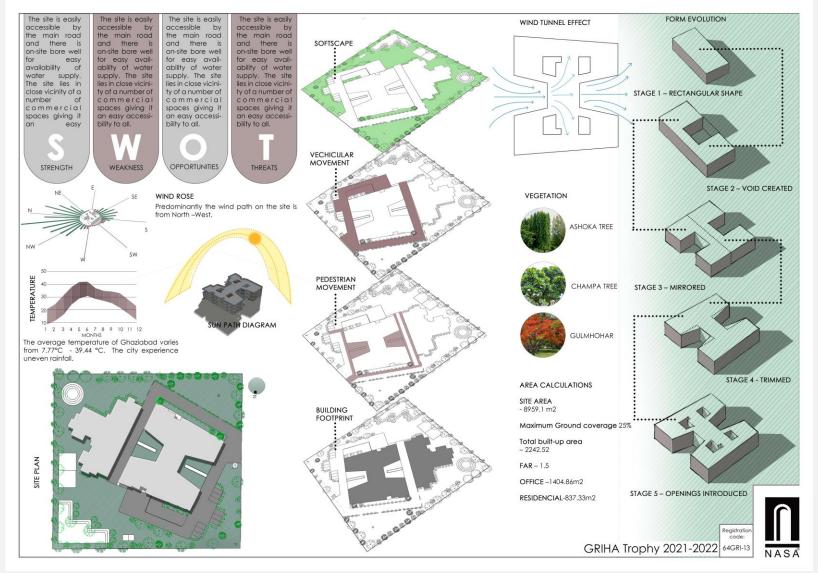


- BRIEF: "Solace Of A Soothing Shade In The Oppressive Heat Of Day." Design A Mobile Settlement To Shelter These Construction Labours Of The Medium Scale Project.
- RELEASE DATE: 13th October 2021
- SUBMISSION DATE: 7th December
- TEAM LEADERS : Entry 1 Dishita Vaidya
 Entry 2 Kalyani Mali
- ACHIEVEMENT: SHORTLISTED IN FIRST 104 ENTRIES IN INDIA

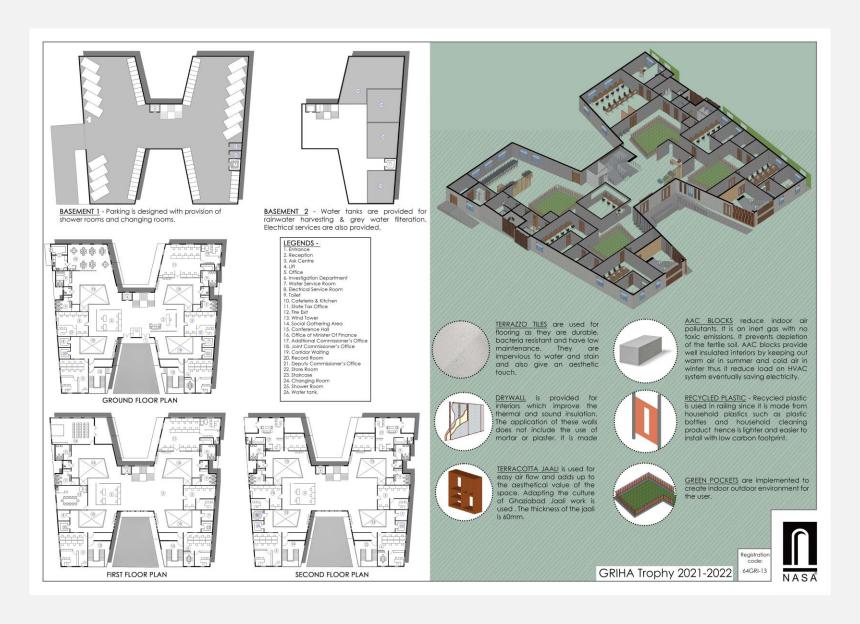


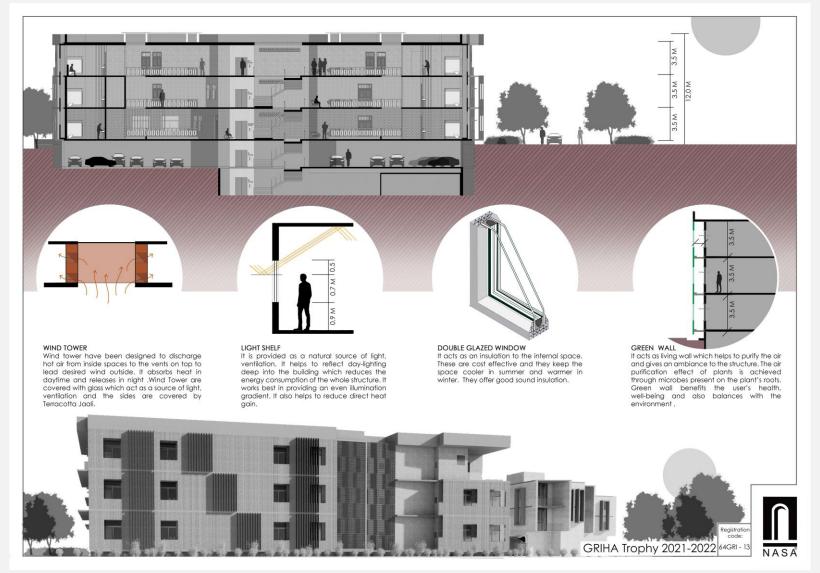
GRIHA TROPHY SHEETS



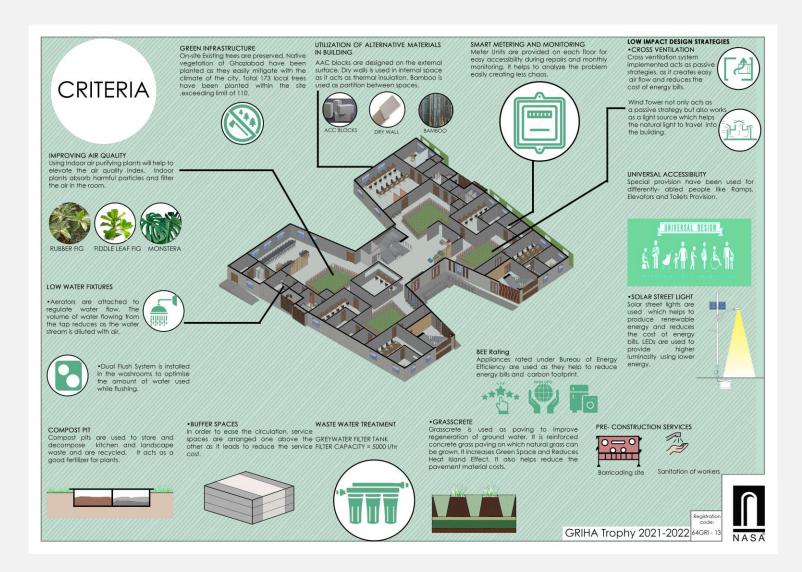


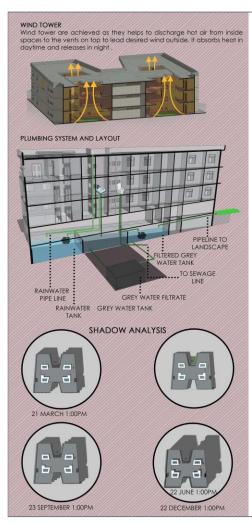
GRIHA TROPHY SHEETS





GRIHA TROPHY SHEETS





FULLFILLED CRITERIA Criterion 1: Green Infrastructure Criterion 2: Low -Impact Design Structure Criterion 4: Air and Soil Pollution Control Criterion 5: Topsoil Preservation Criterion 5: Topsoil Preservation Criterion 7: Energy Optimization Criterion 7: Energy Optimization Criterion 8: Renewable Energy Utilization Criterion 9: Low ODP and GWP Materials Criterion 10: Visual Comfort Criterion 11: Thermal and Acoustic Comfort Criterion 12: Indoor Air Quality Criterion 12: Indoor Air Quality Criterion 14: Wastewater Treatment Criterion 15: Rainwater Management Criterion 18: Rainwater Management Criterion 18: Organic Waste Treatment On-Site Criterion 18: Organic Waste Treatment On-Site Criterion 19: Utilization of Alternative Materials in Building Criterion 21: Alternative Materials for External Site Development Criterion 23: Safety and Sanitation for Construction Workers Criterion 24: Universal Accessibility Criterion 25: Dedicated Facilities for Service Staff Criterion 26: Positive Social Impact Criterion 28: Smart Metering and Monitoring

SOLAR PANEL CALCULATIONS :-

TOTAL NUMBER OF PANELS = 63
ELECTRICITY GENERATION = 450 woth
STANDARD SIZE OF PANELS = 1,9 m X 0.9 m
SET OF PANELS = 3.8 m X 0.9 m
SINGLE PANEL GENERATES = 1.5 kw/day
STANDARD SIZE OF PANEL GENERATES = 3 kw/day
DALLY ELECTRICITY GENERATION = 189 kw
ANNUAL ELECTRICITY GENERATION = 68,985 kw

CONSUMPTION:
BUILDING = 80 kw/day
RESIDENCE = 30 kw/day
RESIDENCE = 30 kw/day
TOTAL = 130 kw/day
= 135 kw/day (additional miscellaneous consumption)
ANNUAL ELECTRICITY CONSUMPTION = 35,235 kw.
REMAINING BEREGY = 54 kw/day
REMAINING ANNUAL ELECTRICITY = 33,750 kw

RAIN WATER HARVESTING :-

ROOF AREA = 1200 m² ANNUAL RAINFALL OF REGION = 764 mm TANK CAPACITY = TANK SIZE = 153 m²

WATER FILTER TANK FILTER = 5000 I/hr

EPI RATIO:
EPI = ANNUAL ENERGY CONSUMPTION IN kwh/TOTAL BUILT UP AREA
= 47.450/2242.52 m²
EPI = 21.15
EPI BENCHMARK = 90
REDUCTION = 90 - 21.5
= 68.5
PERCENTAGE = 68.5/90 X 100
= 76.1%

PERCENTAGE = 76.1%

WINDOW TO WALL RATIO: EXTERNAL WALL AREA = 20.65.75 m².

TOTAL AREA OF WINDOW = 199.08 m².

WINDOW TO WALL RATIO = EXTERNAL WALL AREA/TOTAL AREA OF WINDOW = 20.65.73/199.08

= 10.37

Initial Cash Outflow (Investments made in year 1)			
Particulars	Rs.		
Solar Panel (cost incl. installation)	2,25,00,000		
Rainwater harvesting equipment	72,00,000		
Greenwall Cost	72,11,820		
Total	(3,69,11,820)		

Interim Cash Outflow (Annual costs incurred)			
Particulars	Rs.		
Solar Panel maintenance cost (cleaning and replacement)	5,00,000		
Greenwall maintenance Cost	1,44,220		
Depreciation (W.N 1)	34,51,182		
Operating costs	5,62,830		
Total	(46,58,232		

Particulars	Rs.
Estimated Salvage value of Solar Panel	10,00,000
Estimated Salvage value of Rainwater harvesting equipment	6,00,000
Estimated Salvage value of Greenwall	8,00,000
Total	24.00.000

Year	Particulars	(Rs.)	10%	DCF (RS.)
1	Initial CF	(3,69,11,820)	1	(3,69,11,820.00)
1-10	Interim CF	(46,58,232)	6.1446	(2,86,22,972.35)
10	Terminal CF	24,00,000	0.3855	9,25,303.89
	Net Pre	sent Value		(6,46,09,488.46)

Conclusion:-Hence, we conclude that the Life CycleCosting (LCC) for the next 10 years associated above incur in total an expenditure of Rs. 6.46.09.488.46 at today'svalue since we considered the factor of time



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GRIHA Trophy 2021-2022 64GRI-13

GRIHA Trophy Team



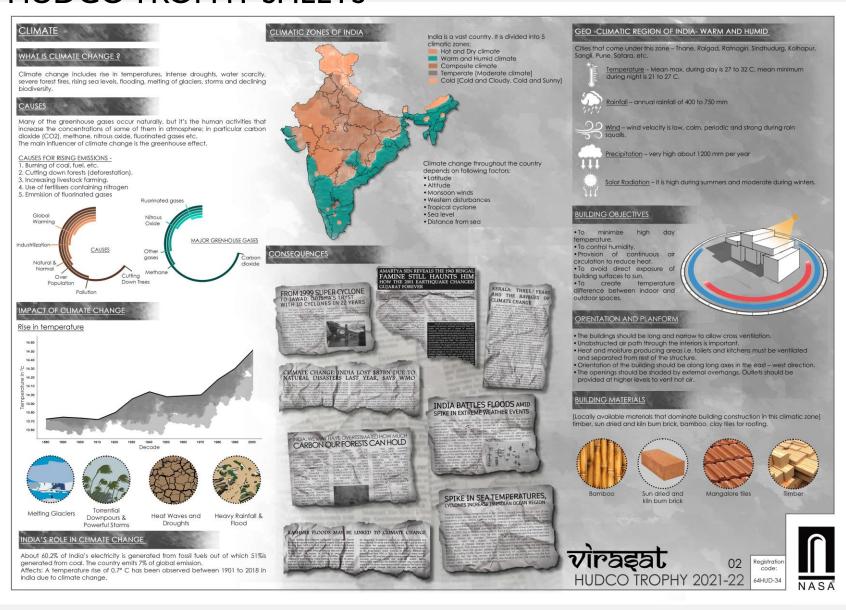
- BRIEF: A GST Building In Ghaziabad (Commercial) Has To Be Designed For Experion Developers. The Design Should Be In Accordance With GRIHA V2019 Rating System.
- RELEASE DATE: 8th September 2021
- SUBMISSION DATE: 15th December 2021
- TROPHY LEADERS: Aaryash Sankpal

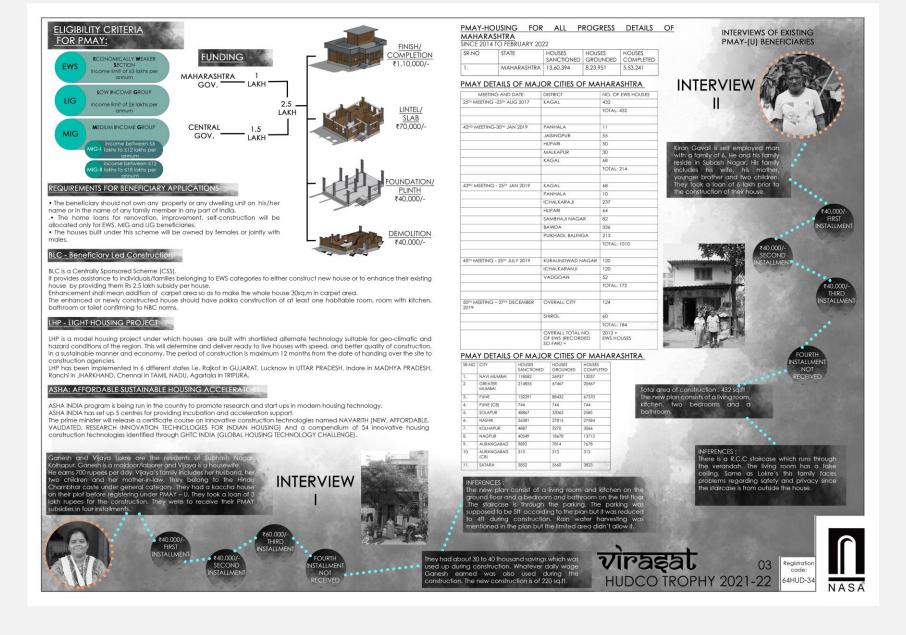
Nakshatra Parulekar



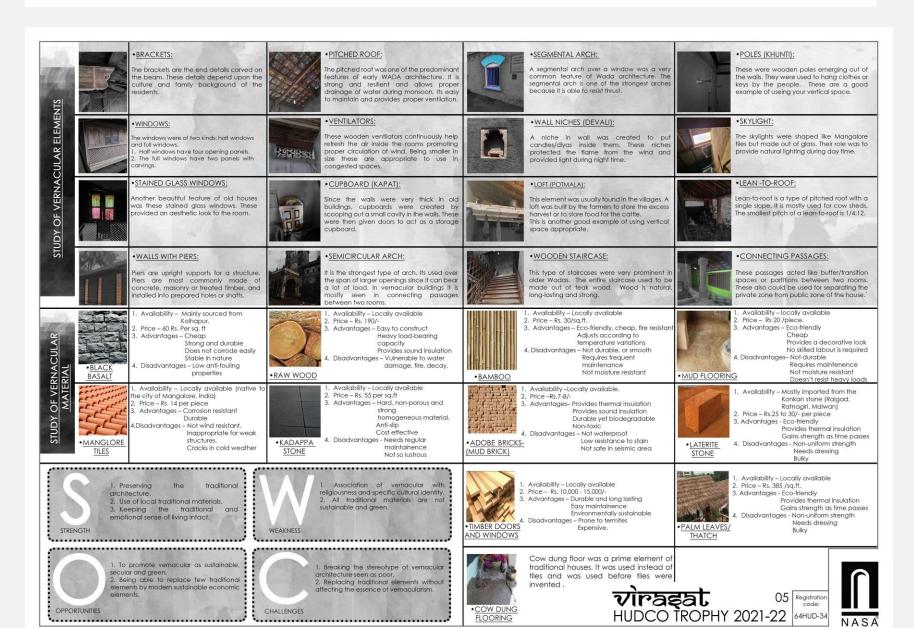




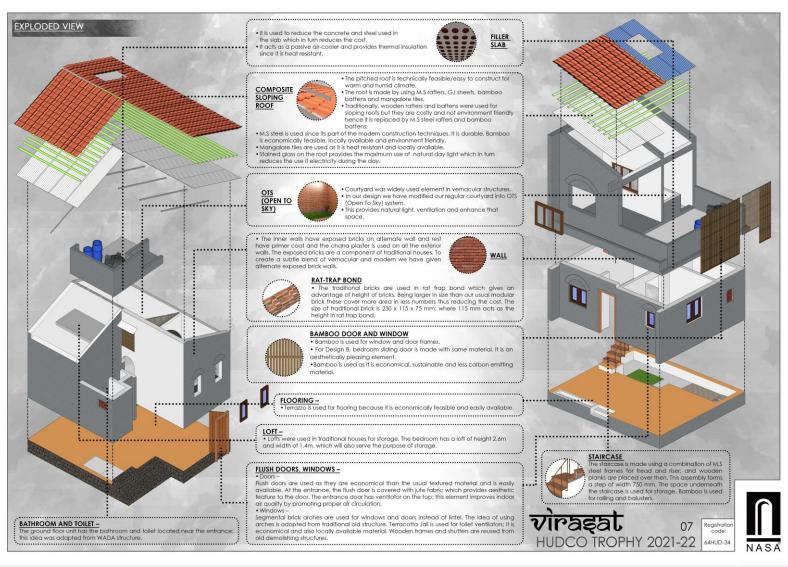


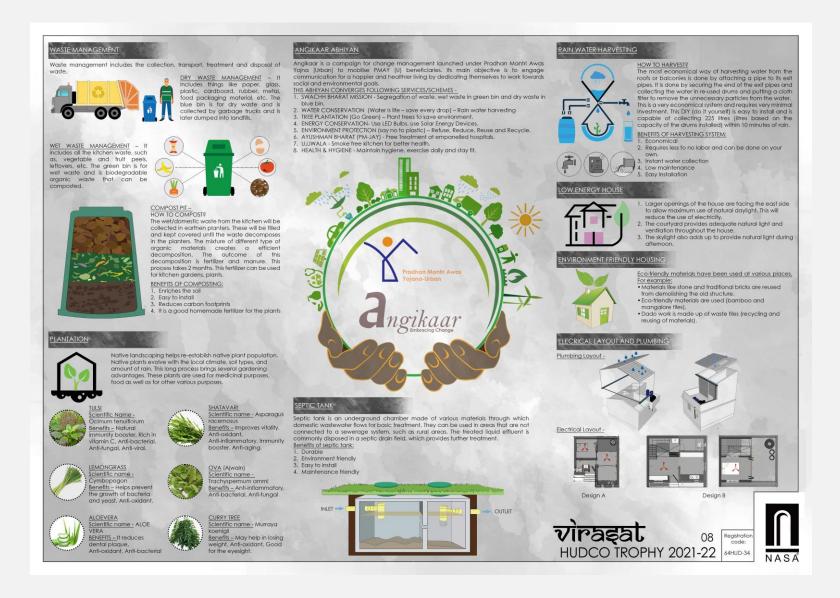


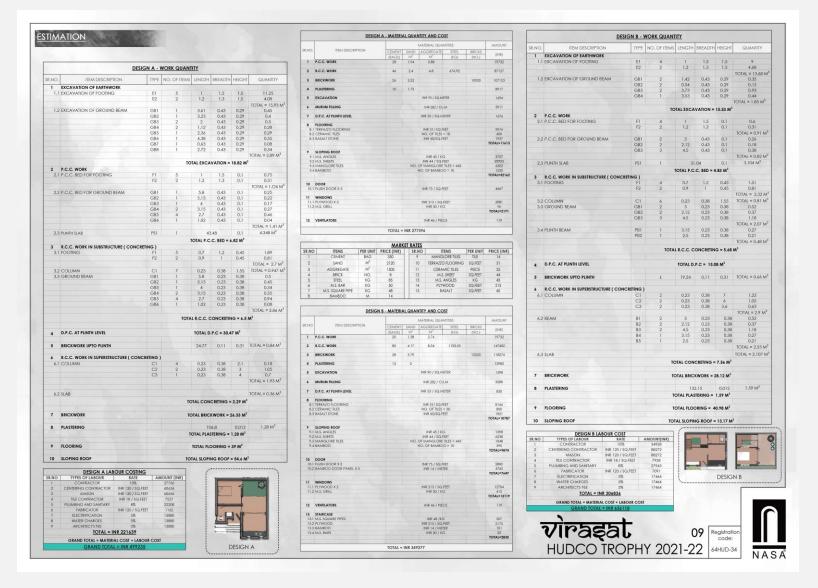
PHYSICAL CRITERIA	VARIATIONS IN STYLE OF HOUSES IN WARM AND HUMID CLIMATE			
TITISICAL CRITERIA	WADA STYLE HOUSE	KONKANI GHAR	WARLI HOUSE	
PLAN FORM	Symmetrical and spatial planning and square grid pattern.	Asymmetrical and spatial planning, linear planning	Planning around the central core.	
ELEVATIONS	Grand openings with large headroom are a prominent feature.	The entrance usually opened into a courtyard (angan) that led	The exterior walls were painted with Warli art which depicted scenes of human figures engaged in activities like hunling, dancing, sowing and harvesting. The elevation had a 'Chaukhat' the main entrance.	
FOUNDATION TYPE	Stone foundation	Stone foundation	Stone foundation	
STRUCTURE	The structure was load bearing.	The structure was mostly on ground and load bearing.	Warli houses were load bearing structure.	
WALLS	The walls were 450mm thick made out of black basalt.	Mud walls were constructed with attached piers	Walls were made up of the mixture of branches, earth and red brick. And mud plaster on framework of branches.	
FLOORS	Stone tile flooring was used.	Cow dung is used to plaster the floors	Cow dung is used to plaster the floors	
DIFFERENT TYPE OF DOORS AND WINDOWS	The doors as well as windows were made out of teak wood and spanned more than the normal 900mm doors.	Wooden panelled doors with wooden frames were used.	'Chaukhat' main entrance of the house was made of bamboo and sometimes wood.	
ARCHES	Segmental arches were seen over the windows and doors.	None	None	
USE OF OPEN SPACES	Central courtyard is incorporated in the design.	There were no indoor open spaces. Outdoor open spaces included the front yard (angan).	The houses were small and didn't have any internal open spaces.	
ROOF	Pitched roof were common with Mangalore tiles as the most excessively used material	Pitched roof with Mangalore tiles were used.	Lean to roof made up of thatches of palm leaves and paddy straw	
BUILDING MATERIAL	1. Black bosalt 2. Mangalore files 3. Teak wood	Red Laterite stone / chira stone Mud (plaster and walls) Mosaic files Teak wood	Thatch (paddy straw, palm leaves) Mud Karvi ((soft stem of Strobilantes CallosusNees plant) Cow dung	
CLIMATE RESPONSE OF WADA ARCHITECHTURE	Wada architecture promotes larger thermal mass to create stable conditions inside the house. Day and night temperatures are indeed lowered since these structures have thick walls and mud plaster due to which the heat is absorbed. These traditional vernacular techniques and materials like the basalt rock are locally available and promote inbuilt passive cooling techniques.	Konkani house promote thermal comfort as the materials such as laterite stone and mud plaster are traditional and climate responsive. The materials provide cooling effect like the cow dung used on the flooring, thus decreasing the humidity.	These are extremely strong and can withstand heavy monsoons. This climatically responsive structure loses heat quite quickly and also allows for air to move in during the hot and humid climate because of its light structure. The thatched roof kept the interiors cool during hot summers.	
SOCIAL ACCEPTIBILTY	Wadas are a rich and cherished architectural heritage in Maharashtra, reflecting the pride, religion, culture, traditions and turbulent history of Marathas. A form of housing in the past, Wadas today are being re-used and preserved as cultural and architectural heritage.	to expansion of the family. Konkani houses have a common space which is	Ancient history states that Warli paintings were used as a means of communication, warli house is considered to be vernacular architecture which was established out of necessity and found to be compatible with climate, local materials historical, cultural and traditional influences.	
PICTURES		Vir	açat CO TROPHY 2021-22 Registration code: 64HUD-34 NASA	











HUDCO Trophy Team



BRIEF: 'Vernacular habitats to combat climate change' vernacular design which will approach with modern design concepts to create novel, sustainable, and resource-conscious solutions.
 Arrive at proposals based on sustainable principles using adaptive vernacular solutions, beneficiary participation, using materials in the vicinity and indigenous techniques offering rational solutions to the climate and human needs.

• RELEASE DATE: 23rd January 2022

• SUBMISSION DATE: 15th March 2022

• TEAM LEADER: Abolee Mali



DANCE Trophy Team



FASION Trophy Team



Submission On 19th May



Working During Trophies

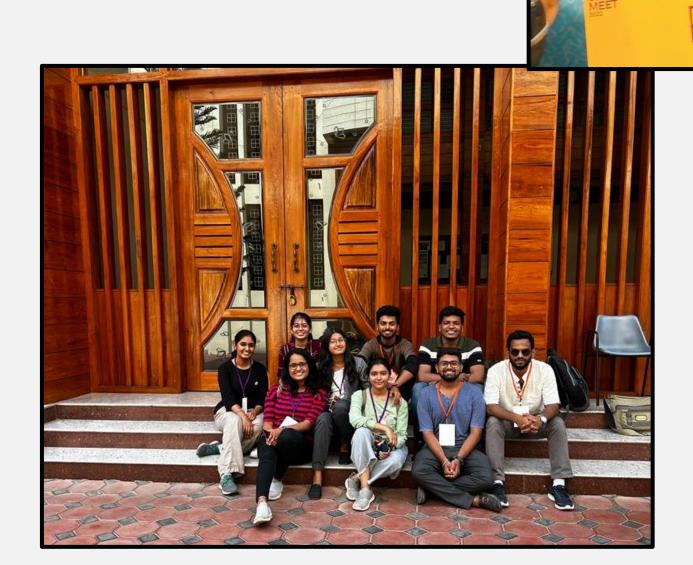


NASA

• INTERMEDIATE GENERAL BODY MEETING (IGBM) 30th April to 1st May



Zonal unit council





64TH ANNUAL NASA CONVENTION (2021-22) Christ University, Bengalore





NATIONAL ASSOCIATION OF STUDENTS OF ARCHITECTURE, INDIA

An ISO 9001:2015 Certified NGO Established in 1957

Registered on 13th September 1993 under Socities Registration Act 1860, vide no. 24786 as applicable to N.C.T. of New Delhi.

HQ: School of Planning and Architecture, Department of Architecture, 6 Block B, I.P. Estate, New Delhi - 110 002.

Date: 07/05/2022

64TH YEAR 2021-2022

EXECUTIVE COUNCIL

MANOGNA MALEMPATI **PRESIDENT**

> ANURAG GAUTAM SECRETARY

TARUN KRISHNA VICE PRESIDENT

Chaitanya Gajbhiye TREASURER

DEVANSHI THAKURIYA PUBLIC RELATIONS

ABINAYA RAVICHANDRAN **EVENTS HEAD**

ZONAL COUNCIL

DIVYANSH GUPTA ZONAL PRESIDENT ZONE 1

MERRICA RAJESH ZONAL PRESIDENT ZONE 2

SARANG RAJGURU ZONAL PRESIDENT ZONE 3

SHRUTI MISHRA ZONAL PRESIDENT ZONE 4

MOHAMMED UZAIR ZONAL PRESIDENT ZONE 5

ERIC ALAN ZONAL PRESIDENT ZONE 6

SIMARJEET SINGH **ADVISOR**

NASA:64:EH:ARP:004L

To, The HoD/Principal/Dean/Director

Subject- 64th Annual NASA Convention 2022

Respected Sir/Ma'am,

Greetings from NASA India!

This is to bring to your notice that the 64th Annual NASA Convention is taking place at Z561 - CHRIST (Deemed to be University), Kengeri Campus, Bengaluru, Karnataka, India on the dates 1st - 4th June 2022. The delegation matrix with the eligible number of students to attend the Convention from the respective Units has been attached along with this letter. Kindly find the same for your reference.

Due to no physical Convention having taken place in the past two years, the Council is delighted to invite three delegates per Unit apart from the qualifying criteria, to all Associated colleges of NASA India by default to the Convention. Please note, it is mandatory for all the Unit Secretaries and Unit Designees to attend the Convention for the Annual General Body

I look forward to seeing your Unit's enthusiastic participation in the 64th Annual NASA Convention...

Regards,

alinaga Ravichandean Prema Abinaya Ravichandran Prema Events Head | 2021-22

National Association of Students of Architecture, India

+91-9952497081 eventshead@nasaindia.co aazhi.abi@gmail.com

Website: www.nasaindia.co

Social Media: @wenasaindia





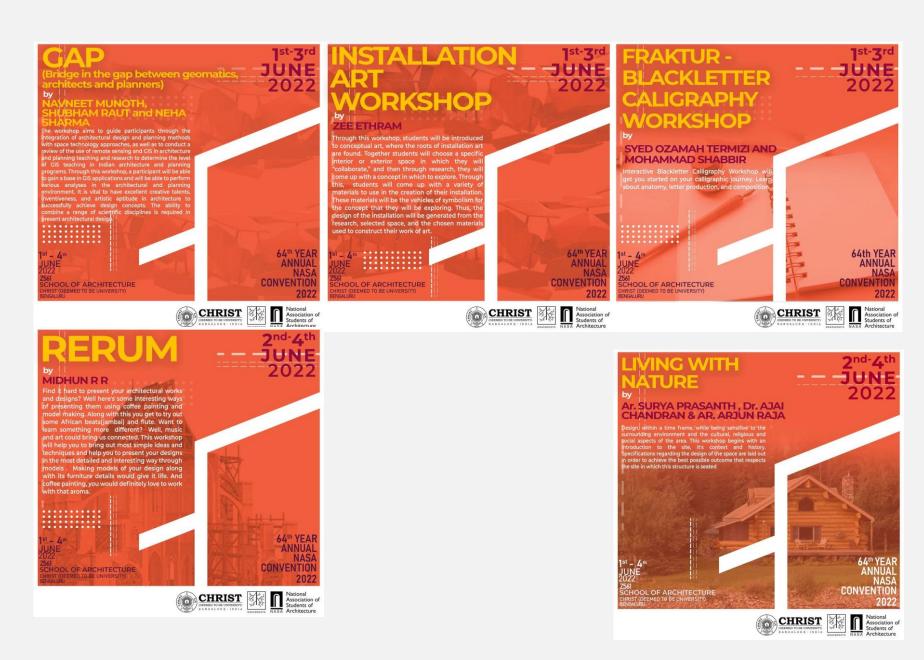












3 Day workshops at ANC

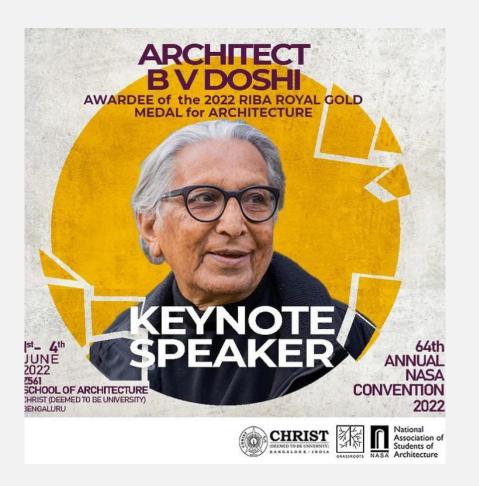
More than 60 Workshops were arranged at the ANC. Our students participated in few of them on different days.



Keynote Speakers at ANC













CHRIST

CHRIST

Association of Students of



Masterclasses at ANC



CHRIST

CHRIST

SECURIOR TO BE CINEWESTITI

ASSOciation of Students of Student

On the Spot Event at ANC













64th ANC Team At Christ University, Kengeri, Bangalore

NASA Unit Council of 65th Year

- UNIT SECRETARY : Rutuja Patil
- UNIT DESIGNEE : Kirti Bodgire
- TREASURERS:
 Aditya Gavali
 Aditya Todkar
- PUBLIC RELATIONS HEAD: Yash Pawar
- PUBLIC
 RELATIONS
 ASSOCIATE:
 Savali Jadhav





