DISASTER RELIEF SHELTER

15 JUNE - 20 NOVEMBER 2021

TOTAL PRIZE $1000

REINVENTING THE TENTS

Image Courtesy: Olivier Depaep

www.mangoarchitecture.com

Introduction

Our country is vulnerable, in varying degrees, to a large number of disasters. Most of us will remember the year 2020 for the coronavirus pandemic. However, while the pandemic brought our human lives to a standstill, nature could not be reigned in.

Amidst the raging pandemic, India survived cyclones, floods, rains, biblical plagues, industrial disasters, locust attacks, and whatnot.

More than 58.6% of the landmass is prone to earthquakes of moderate to very high intensity; over 40 million hectares (12%) of its land is prone to floods and river erosion; close to 5,700 km, out of the 7,516 km long coastline is prone to cyclones and tsunamis; 68% of its cultivable area is vulnerable to droughts; and, its hilly areas are at risk from landslides and avalanches.

Introduction

Post-disaster reconstruction and recovery are complex and entail many challenges for the affected communities as well the government.

When disaster strikes, the need for short-term housing is immediate and urgent.

Disaster relief shelters play a vital role in large-scale disasters and are an important part of disaster response and recovery.

These shelters are used to provide private and secure places for people to live who have left or lost their usual accommodations as a result of some form of disaster.

Also, these shelters not only provide immediate and short-term shelter for the victims of a disaster, but they help them to recover from the trauma of a disaster as well as provide a base to start the process of rehabilitation.

Such temporary shelters ensure the safety of affected communities and also help prevent secondary events such as the spread of diseases.

Victims of disasters, refugees fleeing violence and poverty, and displaced people who are unable to return home all rely on emergency and interim shelter. Well-planned and executed shelter facilities can ease the transition from pre-disaster life to post-disaster life for people worldwide.

The Challenge

The challenge is to design a transportable, sustainable shelter that can support a sizable community and requires little maintenance. Making it ideal for deployment to any disaster-stricken area lacking basic facilities and it also helps restore personal space and a sense of dignity for the victims.

Form the basis for the Future Shack, a self-contained, modular refugee-shelter unit. It can be mass-produced with a minimum of materials and is easily stockpiled, making it a versatile emergency-shelter unit.

The size should be roughly 18 sq.m. in size, however the design should be able to extend up to 40 sq.m. if the family grows. A person requires 3 sq.m. to 3.5 sq.m. of room, hence an 18 sq.m. tent can accommodate up to 5 people, while a 40 sq.m. tent can accommodate up to 11 people.

It should be easily assembled as needed within 6 hours or less on almost any terrain – with no excavation, which means construction does not add to soil erosion problems or create additional damage to the area.

Depending on the water collection solution of your design, it can also include a universal sink and shower. Keep in mind that materials have to be cheap and easy to install.

When the shelters are no longer required, they can be quickly disassembled and relocated around the world.

Requirements

The main requirements of this competition are:

- Facilitate future growth in the (modular) accommodation unit.
- Make it easier to relocate the shelter's doors and windows.
- Use of sustainable and easy to get materials.
- Integration of a water recycling system is also a bonus.
- Basic commodities such as bathroom and kitchen are important. the main area of the shelter unit, where the family spends most of its time. This space will include a night space where members will be able to sleep, as well as a day living space.
- The shelter must be built using a dry construction system, which means that materials such as concrete or bricks are not permitted. As this is a temporary solution, dry construction systems must be applied.
- The assembly technique should not require the use of power tools (since volunteers are not necessarily required to know how use them). The shelter must be built using only hand-held mechanical tools like shovels, hammers, screwdrivers, etc.

Additional features such as the solar panel system to use electricity in the event of emergency.

Schedule 2021

15 JUN
Competition starts

31 JUL
Early Bird Registration Ends

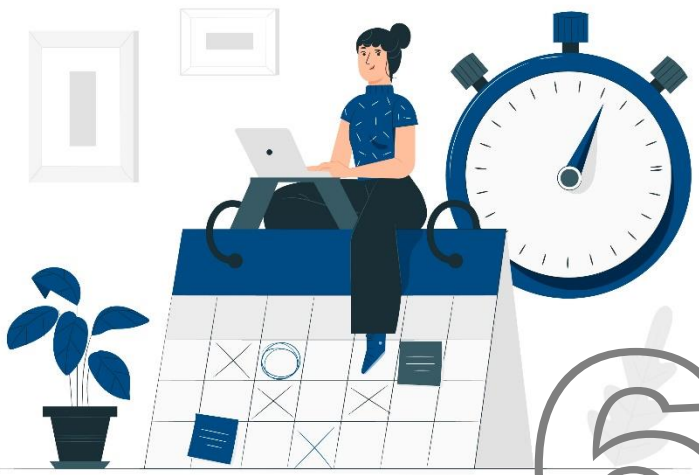
31 AUG
Standard Registration Ends

30 SEP
Extended Registration Ends

20 OCT
Late Registration Ends

20 NOV
Submission Deadline

15 DEC
Results Announcement



Submission

- The proposal to be presented on maximum two horizontal/landscape oriented A2 panels (594 x 420 mm).
- Unique Registration Code(URC) must be written in bold Century Gothic font, 15 mm in height on the top right corner of each board.
- Name of the submission files: Your Unique Registration Code(URC).pdf for example DRS2021XYZ.pdf and DRS2021XYZ.doc
- The compiled pdf of the boards should be named DRS2021XYZ.pdf
- An abstract of about 500 words submitted in an A4 word file. The Abstract should be named DRS2021XYZ.doc
- Submission may be presented using any technique of your choice (sketches, walkthrough, 3D visualizations, model photos, images, CAD drawings, etc.)
- Unique Registration Code(URC) must be the subject of the email. A 150 dpi resolution is suggested, but also bigger resolutions are allowed (as long as the file doesn't exceed 15 MB in size).

Registration

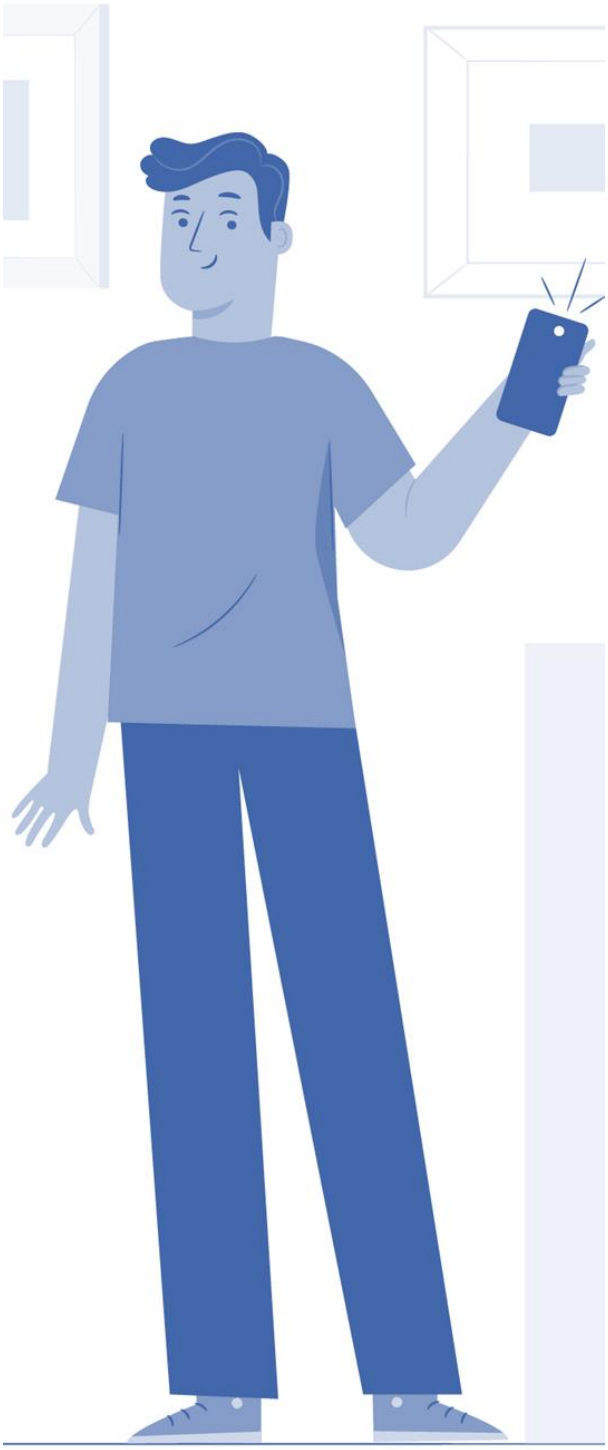
Early Bird Registration Dates
15 June – 31 July 2021
Indian National: INR 500 + 18% tax
Foreign National: USD 20 + 18% tax

Standard Registration Dates
01 August – 31 August 2021
Indian National: INR 1000 + 18% tax
Foreign National: USD 30 + 18% tax

Extended Registration Dates
01 September – 30 September 2021
Indian National: INR 1500 + 18% tax
Foreign National: USD 40 + 18% tax

Late Registration Dates
01 October – 20 October 2021
Indian National: INR 2000 + 18% tax
Foreign National: USD 50 + 18% tax

Student Discounts
2-5 Entries – 10% Off
6-10 Entries – 15% Off
More than 10 – 20% Off



Judging Criteria

The winner will be the project that will stand out for the quality and the complexity of the proposal, concerning various aspects of design and useability. In particular, the following criteria will be considered in the assessment of the projects.

- **Concept**: A well-driven concept of your project will add a point.
- **Representation**: Clearness of ideas and graphic quality and Integration with the context.
- **Materialization**: Your winning is very much dependable on the type of material you choose to build the project.
- **Feasibility**: Sustainability of the proposal from the environmental factor, technical factor, economic factor, and sociocultural factors.
- **Technique**: New and Innovative construction technique is what we wanted to see in the proposal.

The size or occupancy of each shelter unit must be chosen wisely as it will become one of the design assessment criteria.

Awards & Prize Money

2

INR 25,000/
USD 350

+

Certification

+

Publication

+

Interview

1

INR 35,000/
USD 500

+

Certification

+

Publication

+

Interview

3

INR 15,000/
USD 150

+

Certification

+

Publication

+

Interview

25 Honourable Mentions will be selected by the jurors for publications

+

15 Special Mentions will be selected by the jurors for publications

+

Few Select Mentions will be selected by the jurors for publications

+

E-Certificates will be mailed to all the participants

FAQ

- **What should the participants do in case the payments are not available in our country?**
- We request the participants to send us the queries on query@mangoarchitecture.com to get an alternate payment method link to submit the registration fee as soon as possible. We would send you all the possible payment methods.

- **How does a team receive their Unique Registration Code?**
- All the Participants will only receive the URC after completing the registration process. The URC will be mailed to your registered email address within 24 hours.

- **Who will get the certificates?**
- All registered candidates will get an e-certificate of participation in this competition by Mango Architecture.

- **What does the participant do when they don't get a unique registration code after the payment is made?**
- In case of such a problem we request you to send us your payment receipt to query@mangoarchitecture.com with the "payment receipt" as the subject of mail.

Rules & Regulations

The official language of the competition is English.

If the name of the participant or any explicit reference appears so that it is possible to associate the project to the team or its members, the proposal will be banned without any possibility of a refund.

By submitting you agree that we may use your submission(s), fully credited, for promotional purposes on our websites and/or marketing collateral. We will retain all copyrights to your work.

All deadlines will be calculated at UTC +05:30; IST 11:59 PM

Mango Architecture reserves the right to modify the schedule of the competition if deemed necessary.

The participants should not contact the jury under any circumstances.

Once the registration is confirmed and the payment is received, the registration fee cannot be reimbursed. Participation assumes acceptance of the regulations.

Participation in the competition implies full consent and acceptance of the 'terms and conditions' and 'privacy policy' by the Organizers.

Terms & Conditions

The Competition is open for all Students, Working Professionals including Architects, Planners, Urban Planners and Design Students. people from other disciplines can also participate, such as engineers, sociologists, photographers, etc. Not being necessary the presence of an architect in the team.

Entries are invited from all the nations.

There are no restrictions on submitting entries that have been submitted to other competitions or previously published in public as long as that project isn't a winning entry(Top 3).

Participants Unique Registration Code(URC) will be provided by Mango Architecture within 24 hours after your successful online payment process through our secured payment gateway Pay U/Razor Pay/PayPal/Stripe method.

Your Unique Registration Code(URC) is the only means of identification of a team/individual as it is an anonymous competition.

To encourage participation from same school/university, we have added discounts for groups. You can mail us at query@mangoarchitecture.com for the discounted registration fee structure.

Media Partners

We are now associated with the world-leading architecture media websites as our media partners for publishing competitions and results on their websites.

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Mango Architecture
Website: www.mangoarchitecture.com
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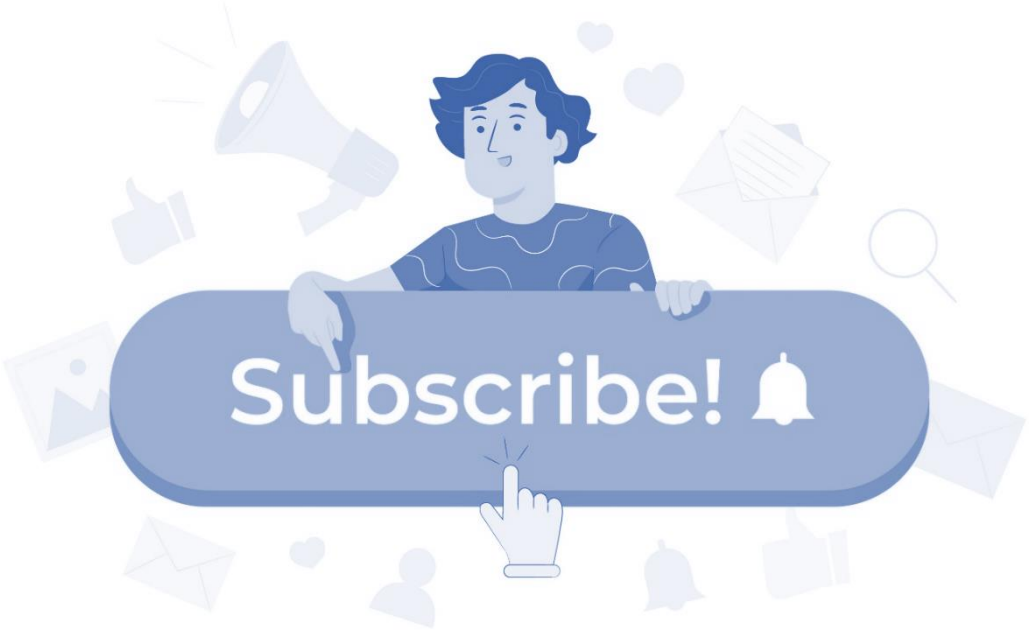
Instagram: @mango_competition @mango_architecture

Queries: query@mangoarchitecture.com
Submissions: submission@mangoarchitecture.com
Connect: connect@mangoarchitecture.com



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