



DESIGN CONTEST

JUTE & COMPOSITE TRADITION & INNOVATION

Technical requirements

Deadline for entry: 29 July 2016



You are a designer, an artist,
a student in Architecture or Fine Arts

Show us your creativity!

Design a piece of furniture*, get the chance to be offered a realisation of a prototype of your furniture, made out of an innovative jute composite material. Experience to work under the guidance of French and German experts.

** technical specification applies, read rules of the contest*

Entry form & information available at:
Goethe-Institut Bangladesh & Alliance Française de Dhaka
and online at: afdharma.org and goethe.de/bangladesh

Find us on  [afdharma](https://www.facebook.com/afdharma) or goetheinstitut.bangladesh

This contest is organised by Alliance Française de Dhaka and Goethe-Institut Bangladesh, with the support of JUTE-lab and Otobi. It is designed as a platform to market your creativity and aims at crossing the use of traditional jute fibre associated with resin in an innovative jute composite offering huge design possibilities.

To meet the challenge of the contest, you must

- Read carefully this technical booklet
- Submit an original and innovative project that highlights the advantages of composite materials (lightweight, strength, shape possibilities...)

With this contest, you will

- Stimulate your creativity
- Acquire new technical skills
- Get the chance to realise a prototype that showcases jute fibre which is the gold of Bangladesh

Authors of selected projects will be offered to participate in a series of workshops under the guidance of Bangladeshi, French and German experts. The workshop will finetune the project and result in creating the 3D prototype of the selected piece of furniture.

The two prototypes to be realized will be displayed at the new French-German Embassy in Dhaka.

All kinds of products can be designed, from stool to desk, shelf or chair, with the objectives of showing the **technical advantages** of using composite materials and the great aesthetic of fabrics made of jute fibre.

Composite materials result from the assembly of a technical reinforcement (fibres) and a matrix (resin or concrete). For this project, we use **jute fibres** as reinforcements and **polyester/epoxy resin** as matrix. Products can be used outdoor as composite is sun-resistant and waterproof.

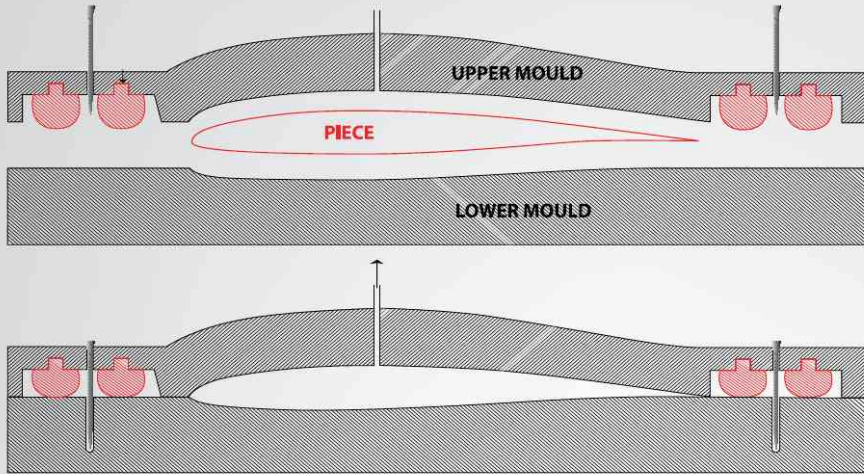
The advantages of composite materials are their **light weight**, their **high mechanical properties** and the possibility of giving the products **complex shapes** by using moulding processes.

Your prototypes that will be produced by the JUTE-lab are obtained by using the RTM process (Resin Transfer Moulding) inside one outer or two half (inner and outer) moulds.

This process also allows to set the **thickness** of the product and to have a **highly finished surface**, or outer surface in the case of a single mould used or inner and outer surfaces in the case of two half moulds used.

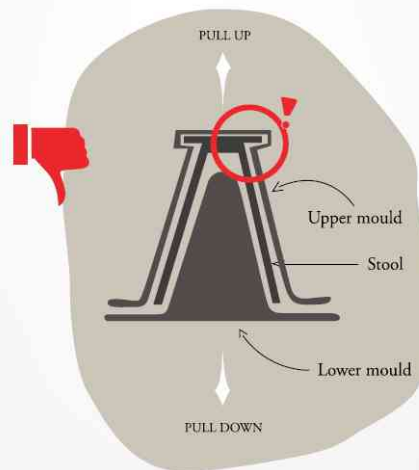
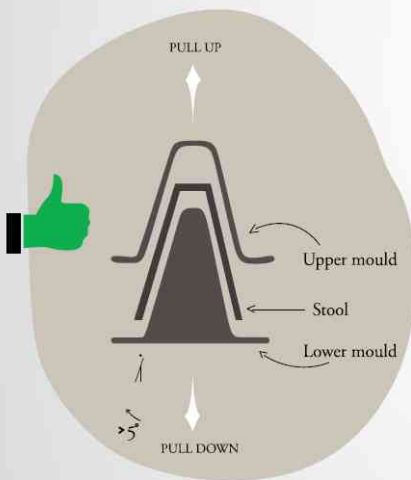
The RTM process allows the moulder to produce **complexly shaped products**, and to easily incorporate **core materials** for strength and weight savings, bosses, ribs, undercuts etc.

RTM basic principle



The resin migrates inside two half moulds which are made airtight by using sealing rings.

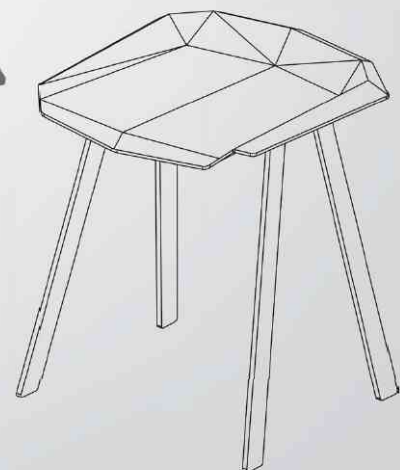
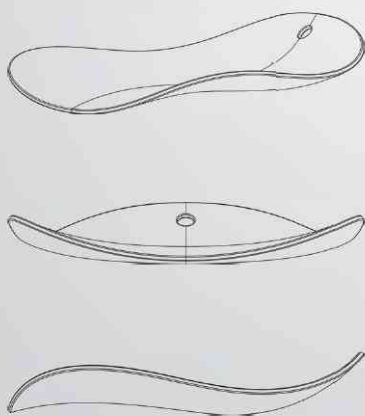
Moulding tips



Volume limitation

Total product volume < 1 cubic meters approx, The product has to be designed so that it can be produced by using two half moulds and minimum angles around 5° (0,087rad).

Design examples



Awards

- One-week long design training in Dhaka under guidance of French and German professionals
- A three-day workshop in Atroshi to produce the final prototype in jute & resin composite material
- Exposure of the prototype during the official opening of the new French-German Embassy in Dhaka
- Possibility of collaboration aiming at commercial production of the furniture by Otobi

Eligibility Requirements for Entry

- Nationality of participant must be Bangladeshi
- Student in Architecture or Fine Arts in a private or public Bangladeshi institution or a professional artist or architect (not older than 35 years)
- Entries must be originally designed and genuinely authored by the applicant

Submission Format

- On four A4 sized papers or boards, showing three single side views and one 3D view (manual drawing or 3D software generated accepted). On rear side: name, address, institution, and personal contact data
- Max. two entries per participant
- Submission with brief description of project on max. one A4 page (max. 300 words) written in English including project name, concept, and size

Judging criteria

- Aesthetic of design (30%)
- Innovative concept (30%)
- Practicality and comfort (20%)
- Visibility of jute (20%)



For further information, please contact



Bruno Plasse
Director, Alliance Française
director@afdhaka.org


Philip Kueppers
Director, Goethe-Institut
director@dhaka.goethe.org

Marion Olheknovitch
Development, the JUTE-lab
hello@jute-lab.org

Find us on

 afdhaka.org
 afdhaka

 goethe.de/bangladesh
 goetheinstitut.bangladesh

 jute-lab.org



co-partner