



## **FELDA 2.0 TIMBER DESIGN COMPETITION F2.0TDC 2018**



### **OVERVIEW**

Lurah Bilut is one of the FELDA settlements located in Bentong, Pahang. It was opened back in 1958 and was the first agriculture establishment in Malaysia and above all, in the world. The main agricultural activities are rubber and oil palm cultivation.

FELDA 2.0 is foreseen to have the capacity to transform FELDA Lurah Bilut to benefit the young generation socio economics and preventing their migration by incorporating its infrastructure development as well as human capital.

In order to drive Lurah Bilut towards digitalization, an iconic multipurpose building will be built to promote the use of timber in construction in line with world green building concept and practices. To complement the development of FELDA 2.0 in FELDA Lurah Bilut, the

construction of children playground is incorporated within the area to encourage a healthy social environment for the community.

Therefore, FELDA with MTIB will organize FELDA 2.0 Timber Design Competition 2018 (F2.0TDC 2018) to look for the best design. The winning designs hence will be used by FELDA to complete the construction of both buildings in FELDA Lurah Bilut, with funds from CIMB Foundation and FGV.

### **AIMS**

This competition aims to challenge Malaysian designers in producing creative design of an iconic multipurpose building and children's playground facility using green materials in the design towards providing an environmentally friendly as a unique FELDA 2.0's landmark through timber utilization.

### **OBJECTIVES**

- To find the most creative architecture design for FELDA 2.0 through crowd sourcing of national talents;
- To enhance linkages between higher learning institution, industry players, professionals and related government agencies in promoting the use of timber in construction industry in Malaysia;
- To challenge the students and professionals from various disciplines to produce outstanding and inspiring timber structures designs, particularly for multipurpose building and children playground.

## DESIGN CRITERIA

**Each designs are compulsory to submit BOTH design for multipurpose building and children playground**



Image on the top: UniCredit Pavilion, Milan – from <https://inhabitat.com/milans-striking-wooden-unicredit-building-is-powered-by-the-sun/>

### ***a) Multipurpose building***

- 1) Design a unique of three-storey multipurpose building with a total built up of 1,800 square feet to provide exhibition area, mini forestry research station, discussion room, look-out point and toilet on land size area shall not exceed a maximum of 1 acres.
- 2) Incorporate cutting edge timber product materials and technology. The design must promote timber or

any engineered timber products, such as glued laminated timber (glulam), cross laminated timber (CLT), laminated veneer lumber (LVL), and may also include oil palm plywood and oil palm sawn timber as the main structural members in combination with other building materials. The design has to incorporate a minimum of 70% timber structural members.

- 3) Incorporate innovative use of timber construction with artistic designs.
- 4) Take into consideration the strength, safety, aesthetic and economic aspects in designing the multi-purpose building.
- 5) Include creative and modern landscaping garden surrounding the building.
- 6) Provide elemental cost estimate and brief specifications of the design, including the total volume of timber used in the design.
- 7) Design using code of practice in accordance with the Malaysian Standard and/or Eurocode. The design of both items shall also comply with Uniform Building By-Laws (UBBL) 1984 or other relevant standard. If there are other materials involved besides timber, the applicable standards for the material should also be used.



Image on the left: Kids Attraction at Parc Sindibad, Casablanca, Morocco – from <http://www.eibe.net>

- 3) Timber is the main construction material, but combination with other material is allowed, such as steel and plastic.
- 4) Provide elemental cost estimate and brief specifications of the design, including the total volume of timber used in the design.
- 5) Design using code of practice in accordance with the Malaysian Standard and/or Eurocodes. If there are other materials involved besides timber, the relevant standard could be used.

### ***b) Children Playground (for age's limit 5 to 12)***

- 1) Design ONE unit of modern and exhilarating outdoor playground that incorporates a minimum of three functional equipment (e.g. slide, swing, monkey bar, etc.) to create interactive and thrilling experience for users. The design should be incorporated with landscaping.
- 2) Safety elements must be emphasized. Fulfill requirements of children playground equipment or related standards.

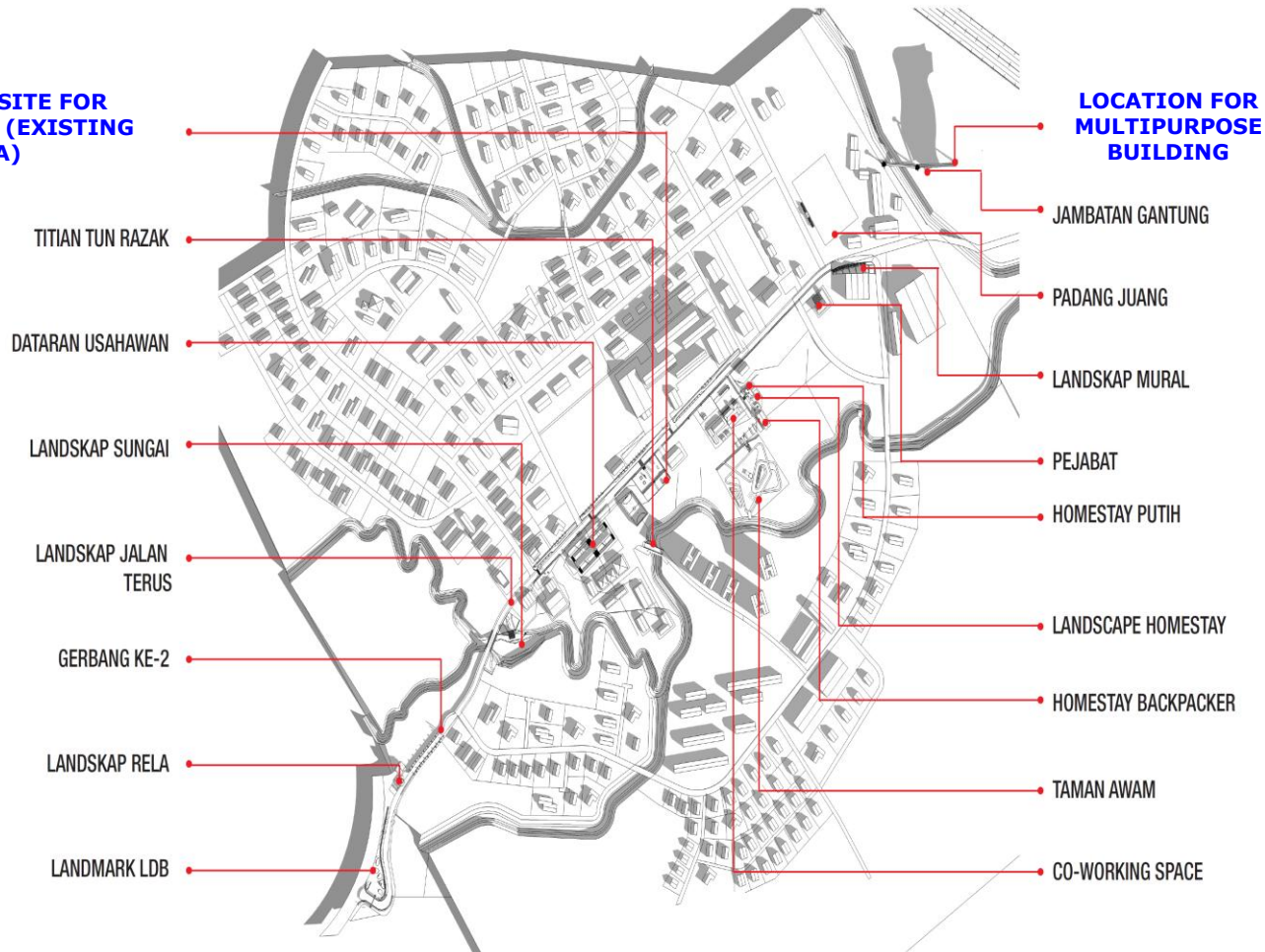


## THE COMPETITION SITE

The competition site is located at Lurah Bilut, Pahang.

### KOMPONEN -KOMPONEN LEMBAH DIGITAL BILUT

**PROPOSED SITE FOR  
PLAYGROUND (EXISTING  
AREA)**



## HOW TO ENTER

- Registration can be done by completing the registration form and submit it through email at [f2.0tdc2018@gmail.com](mailto:f2.0tdc2018@gmail.com) by 30 June 2018. **NO REGISTRATION FEES IS IMPOSED.**
- Registration form can be downloaded / obtained from [www.mtib.gov.my](http://www.mtib.gov.my). (Latest News and Information)
- Successful competitors must be able to satisfy the judges that they are the bona fide authors of the design that they have submitted. The organizers cannot be held responsible for the loss or damage which may occur either during Stage 1 or Stage 2 of the submission. If the entry is shortlisted for Stage 2, the team will be advised in the week commencing 15 July 2018.
- Ten (10) finalists will be announced by 15 July 2018 and will be invited to the competition day on 16 August 2018 to present their schemes to a panel of judges.

## IMPORTANT DEADLINE

STAGE 1	
Registration	23 April 2018 – 30 June 2018
Online submission of documents	30 June 2018
Announcement of the selected finale teams	15 July 2018
STAGE 2	
Preparation of the three dimensional (3D) Multi-Purpose Building & Children Playground	15 July 2018 – 15 August 2018
Competition day and oral presentation	16 August 2018

***\*Subject to change***

## AWARDS & PRIZES

The award will be presented together with certificate at the competition day.

CATEGORY	PRIZE
<b>Multi-Purpose Building</b>	<b>1<sup>st</sup> Prize: RM 20,000.00</b> <b>4 Consolation Prize: RM 5,000.00</b>
<b>Children Playground</b>	<b>1<sup>st</sup> Prize: RM 10,000.00</b> <b>4 Consolation Prize: RM 3,000.00</b>

## **SUBMISSION**

The competition will be conducted in two stages. In Stage 1, entries will be based on an online submission of the design report. Stage 1 submission of project report shall consist of the followings:

- a) Project brief.
- b) Relevant research, design development and concept diagrams.
- c) Architectural design, approach and conceptual analysis of both designs. The entries need to justify the type(s) of timber selected, connection between structural members, and finishes used for both designs.
- d) Appropriate scaled drawing of three dimensional (3D) views, plans, sections and elevations of the design.
- e) Detailed drawings of building sections showing primary sections.
- f) Timber connection details – preferably a structural connection.
- g) Structural key plan.
- h) Summary of structural design and analysis in a tabular format.
- i) Elemental cost estimate (**as per attached template**)
- j) The timber products and/or species must be referenced in the submission.
- k) Photo of any models may also be included.

All drawings must be appropriately scaled, suitably annotated and bears a relevant title. The prepared report must be on **A3** size format, with a **maximum of 20 pages** long. **The heading font-size must be 16** and the **text body must be in Times New Roman font size 14.**

**ALL SUBMISSION SHOULD BE EMAILED TO:**  
[f2.0tdc2018@gmail.com](mailto:f2.0tdc2018@gmail.com)

Shortlisted entries from **Stage 1** will be notified and invited to a final judging event at **Stage 2**, where they will present their design to a panel of judges. Stage 2 requires final submission of a poster together with a scaled model. Further details will be provided for the shortlisted teams.

Please note that external works and M&E design are not required.

## **ELIGIBILITY**

- 1) This competition is opened to all Malaysian students and professionals from architectural, civil and structural engineering, quantity survey and any related disciplines that are directly / indirectly involved in the construction industry (18 years and above). Design proposals can be developed individually or by teams (no limit on the number of members in the group).
- 2) Any family member, partner, associate or employee who is related to the sponsors or the judges shall not be eligible for entry into the competition, and shall also not engage in any form of assistance or consultation to participating team.

## **ENQUIRIES**

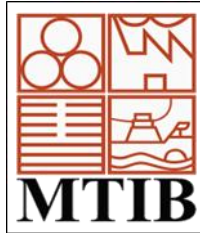
Any enquiries please email: [f2.0tdc2018@gmail.com](mailto:f2.0tdc2018@gmail.com)

**CO-ORGANIZER**



**FELDA**

**LEMBAGA KEMAJUAN TANAH  
PERSEKUTUAN (FELDA)**



**LEMBAGA PERINDUSTRIAN  
KAYU MALAYSIA (MTIB)**

**PARTNERSHIP**



**CIMB FOUNDATION**



**FELDA GLOBAL VENTURE  
HOLDINGS BERHAD (FGVHB)**



**MAJLIS REKABENTUK  
MALAYSIA (MRM)**



**UNIVERSITI TEKNOLOGI  
MARA (UiTM)**



**PERTUBUHAN ARKITEK MALAYSIA (PAM)**