



ECO GREEN BRICK

Cement Free Concrete (EGB)



DESCRIPTION

EGB is one of the Cement Free Concrete (CFC) products. EGB is manufactured using fly ash or palm oil fuel ash (POFA) along with optimum proportions of lime and gypsum. EGB is an alternate to clay bricks and it is proving to be a revolutionary invention that produces bricks without the sintering process and consequently no greenhouse gases are emitted.

Needs

- a) EGB with environmentally friendly concept.
- b) OPC is fully replaced by agro industrial wastes (POFA + PFA).
- c) The manufacturing process is the same as clay brick.
- d) Highly durable, resistance to aggressive environment.

Benefits

- a) Cost effective.
- b) Reduces CO2 emission into the atmosphere.
- c) Recycling and using of waste materials.
- d) Good fire resistance
- e) Alternative to clay bricks.
- f) Uses of agro waste materials.

Application

- a) Recycling of agricultural and industrial wastes for construction materials.
- b) Reducing the effect of urban heat island.
- c) EGB produces low carbon and environmental friendly brick.

Targeted Market

- a) JKR/Construction Industry Development Board (CIDB)/Local Authorities.
- b) Marine structures.
- c) Projects in tropical environment.
- d) Precast concrete products.



PROJECT LEADER : Prof. Ir. Dr. Mohd Warid Bin Hussin
EMAIL : warid@utm.my