

PERFORMANCE OF CEMENT SAND BRICKS CONTAINING RECYCLE CLAY ROOF TILES AS ADDITIONAL MATERIAL

Group Leader: Nadzwa Thalhah Binti Mohamad Hatta Group Member 1: Yolanda Donattela Anak Pait Group Member 2: Alyssa Vanezsa Anak Alvin Wayne Group Member 3: Lim Mei Qi

Institution: Politeknik Sultan Salahuddin Abdul Aziz Shah









DESCRIPTION OF INNOVATION

- Utilization of wasted clay rooftiles into cement-sand bricks is it is the most utilizing brick in construction world.
- 2 Bricks are good in compression and hence can be used to make load bearing structures.
- To produce the cement sand bricks using recycle clay roof tiles as admixture in bricks as there is increasement in construction and demolition waste (CDW) in Malaysia.

IMPACT OF INNOVATION

These bricks aid easy construction process

Raise awareness to minimize or reduce the construction material waste to the environment

Reducing cost by using the recycle clay roof tiles

BLOCK DIAGRAM/ FLOW CHART

OBJECTIVES



To produce the cement sand bricks using recycle clay roof tiles as admixture in brick.



To identify the compressive strength of new cement sand brick.



To determine the water absorption of the new cement sand brick mix with control sample



Obtain wasted clay rooftiles.



Crushing the clay rooftiles into grain size particles.

Pour all the materials

into concrete mixer.



The samples undergo

bricks is taken out before compressive and water absorption test conducted.



Put the mixture into the mould and levelled it.

