

PITEX 2020

PERTANDINGAN AKHIR
PROJEK PELAJAR &
PAMERAN INOVASI

Inovasi Ke Arah
Kecemerlangan Pendidikan

PRODUCTION OF BRICK USING NEWSPAPER AND SAWDUST AS REPLACEMENT MATERIALS FOR SAND IN CEMENT BRICK

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DESCRIPTION OF INOVATION

- ✓ This products are the result of brick making by using materials such as cement, newspapers and wood powder to replace sand in sand brick making.
- ✓ Water absorption test and compressive strength test are used to test our bricks
- ✓ The idea to produce this product based on some of the problems that have studied :
 1. The use of natural materials in the construction sector especially as sand is increasing over the years. The problem is, the increased use of this sand is likely to deplete this natural resource.
 2. Cracks in ordinary sand brick are pretty common and can happen because the strength of this brick is not very well.
 3. The ordinary sand brick is a bit heavy to carry

IMPACT OF INOVATION

1. This bricks are lighter than ordinary bricks because the newspaper and sawdust is lighter than sand.
2. The cost of saving to produce these bricks is 60%.
3. The density of these bricks is very low compared to the existing bricks which is 40% lack.
4. Water absorption of this brick is 17% which is much less than regular bricks.

OBJECTIVE

1. To produce the cement bricks using newspaper and sawdust as replacement materials of sand in bricks making.
2. To test the strength of combination brick with newspaper and sawdust as replacement materials of sand in bricks making.
3. To test the water absorption of of combination brick with newspaper and sawdust as replacement materials of sand in bricks making.

BLOCK DIAGRAM/FLOW CHART

NEWSPAPER PULP



SAWDUST



MOULD



PROCESS :



RESEULT :

