LAMPIRAN J

POLITEKNIK MALAYSIA

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT *INFORMATION*
Program *Program*	DKA
Jabatan *Department*	Kejuruteraan Awam
Semester/ Tahun *Semester/ Year*	5
Tajuk Projek *Project Title*	Agro-Tech Clay Brick
Jenis Projek *Type of Project*	**Inovasi** / Rekabentuk / Penyelidikan
Kategori Kluster Penyelidikan *Category/ research Cluster*	Tanda " / " pada yang berkenaan: *Please tick " / " where applicable:* [ ] Sains tulen (*Pure Science*) [ ] Sains gunaan (*Applied Science*) [/] Teknologi dan kejuruteraan (*Technology and Engineering*) [ ] Sains kesihatan dan klinikal (*Clinical and Health Sciences*) [ ] Sains sosial (*Social Sciences*) [ ] Sastera dan sastera ikhtisas (*Arts and Applied Arts*) [ ] Warisan alam dan budaya (*Natural Sciences and National Heritage*) [ ] Teknologi maklumat dan komunikasi (*Information and Communication Technology*)
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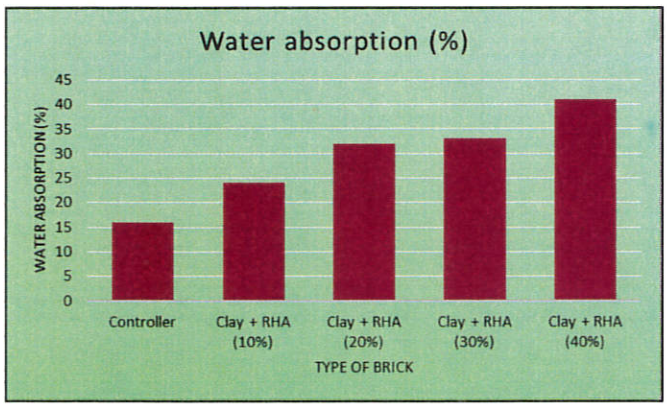
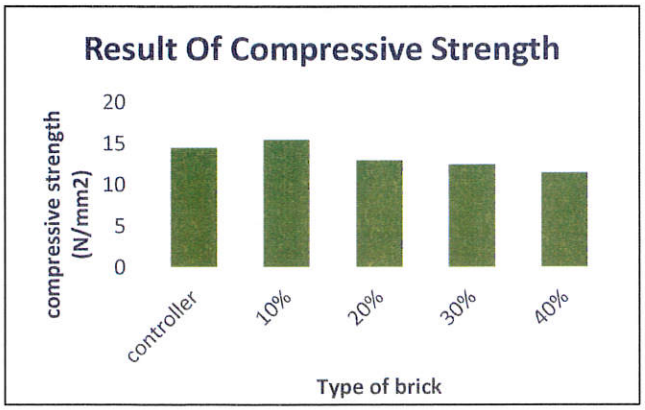
Abstrak *Abstract*	Clay brick with rice husk ash (RHA) have been produced using agriculture waste from paddy field. The RHA is a potential waste as an additive in existing clay brick to improve quality and reduce amount of cement in clay brick mixture. At the same time, can reduce cost and prevent environmental pollution by reducing solid waste from agriculture field. The compressive strength and water absorption test is use to measuring the quality of bricks. As a conclusion, the use of Agro-Tech Clay Brick is a new innovation that's better than existing clay brick.

Keyword *Keyword* (max 5 word)	Rice Husk Ash (RHA)
Objektif Projek *Project Objectives*	1) To produce clay brick using rice husk ash (RHA) from agriculture waste as an additive materials. 2) To determine the compressive strength for RHA clay brick.
Skop Projek *Project scope*	1) Main material is rice husk ash (RHA). 2) These scopes are including doing the water absorption test and compressive strength. 3) Used as a material in construction
IP No	-
Dapatan *Finding* (*500 words max*)	From the experimental test that have been conducted, the researchers have determined the water absorption and compressive strength for each percentage. For water absorption, clay with 40% RHA is the highest where the value is 41%. The lowest value is 16% for clay with 10% RHA. For the compressive strength RHA 10% with clay is stronger than the controller where the results is 15.5 N/mm^2 have reached above the permitted standard.  

Cadangan untuk kerja-kerja akan datang *Suggestion for future work (500words)*	1. Need to be commercialized because the cost of Agro-tech Clay Brick is cheapest (RM0.25 per brick) than existing clay brick (RM0.40 per brick). 2. Product that not exceed the standards also can be used in domestic areas because the properties is soaked with cement brick.	
Gambar berkaitan projek *Picture related to project* (700kb)	 Rice husk RHA RHA Carbon Clay *Figure 1*	 *Figure 2*
Rating/Level	Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa *Departments / Institutes / National / International*	

* *Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelaras projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.*