



## POLYMER MODIFIED MORTAR USING NATURAL POLYMER: EVALUATION OF NATURAL RUBBER LATEX AS ADMIXTURE IN THE MORTAR PROPERTIES

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### PENERANGAN INOVASI

(Latarbelakang inovasi/cetusan idea/penyataan Masalah

The problem indentified was the porosity and durability of an average sand cement brick.

After brainstorming and filtering ideas, the idea of using Natural Rubber Latex(NRL) was conceived due to multiple reasons such as decreased porosity, increased durability and more.

Added NRL was discovered that it absobs any kind of vibration preventing damage and also the loads are even distributed due to the particle arragement in brick.

### IMPAK INOVASI

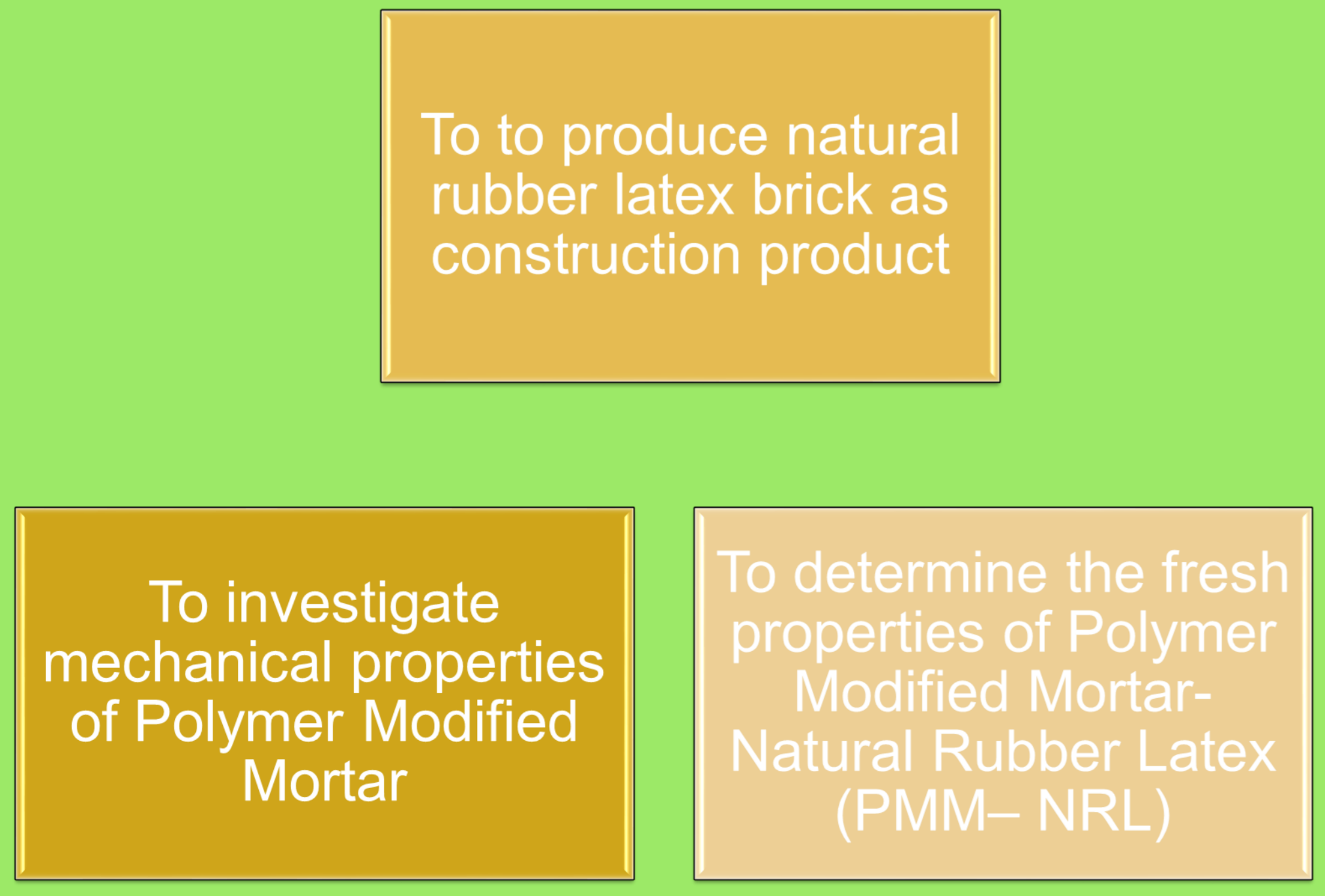
(Kelebihan/Potensi pasaran/Sebarluas inovasi)

Usage of natural rubber latex has many benefits such as enhanced durability, improved resistance towards efflorescence and weathering resistant and more.

The usage natural rubber as an admixture in masonry was envisage long time ago but was not explored deeply due many reason. So it has future for development and pratical usage in near future.

### OBJEKTIF

The main objectives of the research can therefore be summarized as:



### BLOK DIAGRAM/CARTA ALIR OPERASI

#### FLOW CHART

