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Abstract	:	<p>In this project, bio-based adhesives were produced from extracted durian seeds powder by two methods: non-heating and heating raw materials methods. Bio-based adhesives in this project were prepared by extracting the starch powder from durian seeds. The obtained durian seeds starch was to be then grinded and sieved to make it uniform in size. Subsequently, the durian seed starch powders were roasted and mixed with borax and sodium hydroxide at certain amount for cleaning and hardening. The resultant bio-adhesives were characterized its physical and mechanical testing such as FTIR analysis, tensile strength test and shear strength test. The resultant adhesives in this project were expected to be compatible with current commercial synthetic adhesives. Moreover, bio-based adhesives in this project will be benefited for alternating material replacement of synthetic adhesives, sustainability as well as availability at the lowest price. This bio-based adhesives are expected to have a high potential to be applied and marketed in various industries such as in the wood bonding technology in furniture industries and as surgical tape for medical applications.</p>