

## ABSTRACT

House is a basic need of society, yet its fulfilment has not been fully carried out, particularly to they who live in Kedungmalang Village, one of the villages in the subdistrict of Kedung, Jepara Regency where majority of people live in there are fishermen. Their houses are semi-permanent, walls are made of boards or bamboo, and roofs are of zinc. In accordance with SNI-03-1726-2002, Jepara Regency belongs to earthquake area 2. The earthquake in 2015 occurred in the regency has made all buildings including residential buildings be designed with reference to earthquake resistant structures. Simple healthy instant (SHI) house in this case is one of the construction technologies used. Therefore, this study aims at investigating the quality structures of the existing SHI houses, while comparing the cost estimates between the houses applying the technology of SHI house and the ones applying another technology such as earthquake resistant concrete structure. Result of investigation conducted to 40 SHI houses shows that no error occurs in the structures of the house, yet fifteen houses are reported to have issues pursuant to walls and roof covering parts. The result in the earthquake resistant simple house planning for fishermen suggests the following specification: sketch of 6 x 12 m, sloof, beam using reinforced concrete with main steel reinforcement of Ø 10 mm, metal stirrup of Ø 8mm, roof structure, wooden frame and wall filler of bricks. While result in the calculation of the cost estimate for SHI house is as much as IDR. 221.265.000,00 (two hundred twenty one million two hundred sixty-five thousand rupiah), while the cost estimate for Non-SHI house version 1 is as much as IDR. 222.158.000,00 (two hundred twenty two million one hundred fifty eight thousand rupiah ), and the cost estimate for non-SHI house version 2 is as much as IDR. 264.268.000,00 (two hundred sixty four million two hundred sixty eight thousand rupiah)

*Keywords : Simple healthy instant (SHI) house, earthquake resistant house, cost estimate*