

A B S T R A C T

Falifi, Riza. 2013. **Education and training center for dropout children in Sidoarjo.**

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Sidoarjo as a design pedestal is one of region that has quite a lot of social problems, due to the citizen low financial. Most of their parents demand their children to work than go to school, thus the amount of children who drop-out from school increasing. There many drop-out children being jobless and street singers. Moreover, the environment of Sidoarjo has been destroyed by industrial building in Sidoarjo. It gives a bad impact for environment. Thus, by designing a location as a locus for them to get education which is able to change their moral and attitude, and get a training for their future to improve the drop-out children financial is one of a form of concern towards environment. In addition, the theme used in this design is echo architecture emphasized over echo architecture principles include: 1) reduce the use of energy; 2) echo friendly materials; 3) climate adaptation; 4) notice user in islamic perspective. This theme was chosen due to the consideration of its ability to solve the issue of environmental damage in Sidoarjo.

Echo architecture principles are applied into design, that is climate adaptation getting. Adapting from solar lighting to get the difference of building height, the diversity of roof height can be a skylight of the building which lessen the use of light energy and respiration. The use of echo friendly material such as building roof from iron frame with shingle roof. The convenience of users, circulation path is distinguished between pedestrians and vehicles. Whole design can be applied to eco architecture principles.

Key words: education, training, children, drop-out, school, and echo architecture.