DEVELOPMENT PLANNING STUDIES
RUNWAY AND TAXIWAY ABDULRACHMAN SALEH
MALANG AIRPORT

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Abstract

Abdul Rachman Saleh airport in Malang is located was experiencing growth of air traffic flow is increasing from year to year. Civil enclave airport was opened in 2005 and is expected to increase up to the future. Currently the airport runway could only be based on the Boeing 737 type aircraft down while the demand for air transport - toward Malang and surrounding areas is increasing.

This final project will calculate runway length and taxiway for aircraft operations that will be used in planning the next 15 years. With the correction of the condition of existing ARFL runway, runway length that is less than the length of the runway should be at 2819 meters. For traffic flow forecasting next 15 years performed a linear regression analysis from 2012 to 2026.

The forecasting results obtained from a total of 13,610 aircraft movements and the movements of total passenger movements of 3,017,908 passengers in peak volume of 202 passengers each time the counter, so it is planned to use the aircraft as B 737 900 ER aircraft has a passenger capacity is sufficient for 213 seat. This aircraft was used as a reference design foundation dimensions.

Some planning that produced among other things: the length of the runway with aircraft plans along with the total width 3.015 m 60 m along the runway, taxiway shoulders dimensions by 25 metres wide, 5 metres including shoulder
each side of it. While planning to produce surface roughness thickness layer with thickness of 10 cm, coating base approx 25 cm and the thickness of the sub base is 31 cm.

Keywords: Runway, Taxiway, Flexible Pavement