

UNIVERSITI TEKNOLOGI MARA

**INVESTIGATION OF HIGH RISK AREA
AFFECTED BY ELECTROMAGNETIC FIELD
(EMF) RADIATION OF HIGH VOLTAGE POWER
TRANSMISSION LINE**

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Thesis submitted in fulfilment
of the requirements for the degree of
Bachelor Science of Geomatics


Faculty of Architecture, Planning and Surveying

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AUTHOR'S DECLARATION

I declare that the work in this thesis/dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Undergraduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

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ABSTRACT

Since centuries ago, the creation of electricity has given many advantages and conveniences to humans. However, it gives side effects that arise from the use of electricity itself. The increasing of electricity consumption give an impact to human and environment because of electromagnetic field that produces when the electric passes an object. This field emits radiation which resulted in increasing of temperature in the atmosphere. The main objective of this study is to analyse electromagnetic field (EMF) radiation impact from high voltage power transmission line in Kedah state. Electrical substation line, Landsat image year 2011, 2014 and 2016 land used of study area were used to investigate the affected area. The most affected area by EMR radiation is agriculture area followed by forest area. The increasing effect of EMR on residential area is 0.7% in year 2011. The significant for this study help the government agencies to evaluate the pollution that has occurred in the atmosphere throughout six year intervals.

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