

**CENTRE OF STUDIES BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA**

**EFFICENCY OF LOCAL EXHAUST VENTILATION SYSTEM AND
IMPACT TO INDOOR AIR QUALITY IN ELECTROPLATING
INDUSTRY**

**AMIR BIN OMAR
(2009842212)**

**Academic Project submitted in partial fulfilment of the requirements
for the degree of
Bachelor of Building Surveying (Hons)
Centre of Studies Building Surveying
Faculty of Architecture, Planning & Surveying**

July 2012

PERPUSTAKAAN TUN ABDUL RAZAK UITM	
No. Perolehan	
Control Number	516367
Tarikh	4/2/2014
No Aksesori	THE0951058
Lokasi	PTAR1

**CENTRE OF STUDIES BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA**

**EFFICENCY OF LOCAL EXHAUST VENTILATION SYSTEM AND
IMPACT TO INDOOR AIR QUALITY IN ELECTROPLATING
INDUSTRY**

**“I hereby declare that this academic project is the result of my own research
except for the quotation and summary which have been acknowledged”**

69 B

Student's Name : AMIR BIN OMAR

Signature :



UITM No. : 2009842212

Date : July 25th 2012

ACKNOWLEDGEMENT

Firstly, My highest praise to Allah S.W.T for giving me the strength and idea in preparing this academic project. Here by, I would like to express my deepest thank to all who contributes information in my research. Infinite of thank to my supervisor Hjh Sr. Rohimah Khoiriyah for her encouragement and guidance to me in completing this research.

Thank You,

ABSTRACT

Electroplating industry is known as the industry that used chemicals in their process of production. Some of the chemicals uses in this industry are hazardous to health. Since the electroplating factory is the enclosed building, there for, the chemical which is used in the process would able to contribute to the indoor air pollution. Those employees who are working in this production area have potential to expose to chemical vapors. Local Exhaust Ventilation system is the mechanism of engineering control which is functioning to absorb the chemical generated from the process to the atmosphere. However, the efficiency of the Local Exhaust Ventilation may decrease due to poor maintenance program. The employers have responsibilities to ensure their Local Exhaust Ventilation is in good condition. Besides, those employees who may handle the hazardous chemical should be trained and aware on the chemical hazard and the impact of the risk to their health.