



**INVESTIGATION OF RUST FORMATION ON STEEL EXPOSED IN
HEAVY INDUSTRIAL ENVIRONMENT**

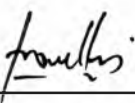
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“I declare this thesis is the result of my own work except the ideas and summaries which I have clarified their sources. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any degree”

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TABLE OF CONTENTS

CONTENTS	PAGE
ACKNOWLEDGEMENT	i
TABLE OF CONTENTS	ii
LIST OF TABLES	viii
LIST OF FIGURE	ix
ABSTRACT	x
CHAPTER 1 INTRODUCTION	1
1.1 Introduction	1
1.2 Objective Of The Project	2
1.3 Scope Of The Project	2
1.4 Significance Of The Project	3
CHAPTER 2 CORROSION	4
2.1 Introduction	4
2.2 Classifications Of Corrosion	5
2.3 Mechanisms Of Corrosion	5
2.3.1 Chemical Corrosion	6

2.3.2	Electrochemical Corrosion	7
2.3.3	Corrosive-Mechanical Interactions	7
2.4	Corrosion Principles	8
2.4.1	Corrosion Rate	9
2.4.1.1	Weight Loss	9
2.4.1.2	Depth of Penetration	9
2.4.1.3	Acceptable Rates	10
2.4.2	Electrochemical Aspects	11
2.4.2.1	Electrochemical Reactions	11
2.4.2.2	Polarization	12
2.4.2.3	Passivity	13
2.4.3	Environmental Effects	15
2.4.3.1	Effect Of Oxygen And Oxidizers	15
2.4.3.2	Effects Of Velocity	16
2.4.3.3	Effect Of Temperature	18
2.4.3.4	Effects Of Corrosive Concentration	18
2.4.3.5	Effect Of Galvanic Coupling	19
2.4.4	Metallurgical Aspects	19
2.4.4.1	Metallic Properties	19
2.5	Forms Of Corrosion	20
2.5.1	Uniform Attack	21
2.5.2	Galvanic Or Two-Metal Corrosion	21
2.5.3	Crevice Corrosion	22
2.5.4	Pitting	22
2.5.5	Intergranular Corrosion	23
2.5.6	Selective Leaching	24
2.5.7	Erosion Corrosion	24
2.5.8	Stress Corrosion	25
2.6	Corrosion Prevention	26
2.7	Conclusion	27

ABSTRACT

The purpose of this project is an exposure for engineering students to perform on site investigation and analytical jobs regarding rust formation on steel structures exposed in heavy industrial environment. It also gives an understanding about the aggressiveness of the industrial environment against metal, especially steel.

Investigation and observation was done within Shah Alam industrial area, where the result and findings are tabulated. An analysis was done based on the result and findings, and further analysis was done which relates all the findings with the related source that is quite similar with the field of studies.

From the site investigation, many steel structures were found rusted and it is mainly caused by the industrial emission and other factors. The environmental data and other information regarding the Shah Alam industrial area, very much assist in an investigation of rust formation on steel exposed in an industrial environment. Corrosion maps have been mapped for future references and applications, where applicable.