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A STUDY OF DESIGN AND MAINTENANCE FOR INDOOR GARDEN

**This academic project is submitted in partial fulfillment of the
requirement for the Bachelor Of Building Surveying (Hons.)**

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Peace upon to all

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ABSTRACT

Earth is like greenhouse, ozone layer is it glass. This ozone layer is now more thicker because effect from human activities and industries activities, this will provide more carbon monoxide and dioxide in the air and reducing all oxygen in atmosphere. Ozone layer is contain lots of oxygen gases is now reduce day after day, this will source of global warming, sun radiation is unprotected by ozone layer and human activity at earth surface now became a treat to our planet. Global warming will raised up temperature in atmosphere and melt all ice in pole, raising sea level. This situation can be avoid by reducing carbon monoxide and dioxide in atmosphere and cleaning by planting more plants by changing carbon dioxide into oxygen, but human do opposite thing, they prefer to cut down all trees to be developing more building and providing more pollution to this planet.

This issue can be seen in small scale, building. Inside building, there are many gases and dust we cannot see, are safe now inside building. Human need oxygen to breath, when human insufficient oxygen, human became unhealthy and this situation called building sick syndrome. Ventilation in building most important for air inside building can be recycle, unwanted gases can be change to oxygen, so occupant be more healthy, because oxygen is most important thing for human and affect all human activities. Dust inside building and unwanted gases is unhealthy for human can be clean using services like AHU and HVAC system that recycling air inside building, but there is another option for building owner, by installing indoor garden.

Trees also have a problem when plant near the structure, root beneath soil can penetrate and damaging all substructure, then will affect strength of building foundation that holding building upper structure. All problems can be solve if use wisely thinking, avoiding use taproots trees or use only shrubs nears structure is one of solution of this problem, but if want use this kind of trees, installing root barrier is important to avoid problem in future.

This research methodology is by questionnaire, this question is for maintenance department that arrange all about indoor garden and they will determine

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1 INTRODUCTION

1.1 INTRODUCTION

Nowadays, many people realize and concern about environmental issues such as land slide, flood, global warming etc. Their consideration makes some of the researchers try to figure out what are the main causes and solution from getting it worse. Development is one of causes of this situation. Human live under a shelter even from thousand years ago, it is a norm for human. Buildings are built for human to live, work, shop, and even for sports activities. As seen rapid development has now been abolished environment include ecological chain of life in it, what is more worrying is the natural imbalance eventually invite disaster to the man himself. Development is a must but every issues rise from it must be encountered such re-plant a tree, like make park, mini landscaping at building area, it is not just good for environment surrounding, but also for occupant.

Garden is one of the area that will attract people to come, its calm, peace and simply relaxing. This area is done by human to provide a natural environment inside out the building. Vegetation is the main item that should subsist in the garden and it also with other decorative items besides natural plants to make this garden simply beautiful and more attracting, examples water elements, structural items, then providing facilities for visitors like pedestrians, benches, tables and signage to make this garden more perfect and friendly to visitors. Garden can be related to landscaping work and art of nature.

1.2 PROBLEM STATEMENT

1.2.1 ISSUE 1 : GLOBAL WARMING BECOME MORE SERIOUS.

How serious global warming that will be affected earth, and its contained? Many agencies in the world try to take to make people wake and try reducing this problem before its too late. Studies have been conducted to make sure it's not too