

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

**PROBLEMS IN THE INSTALLATION AND MAINTENANCE OF WATER
SUPPLY PIPING SYSTEM IN GOVERNMENT OFFICE BUILDING**

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


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

Student's Name : Umi Kalsom binti Ahmad

Signature : 

UITM No. : 2010379101

Date : January 27th 2014

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**ACADEMIC PROJECT
BSS 608 & BSS 658**

CONFIRMATION OF ACADEMIC PROJECT AMENDMENTS

**This is to confirm that the student has amended his/her
academic project as directed and therefore allowed to compile**

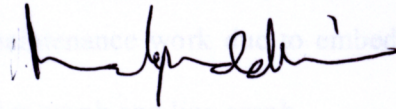
Marks	Grade
67	B

Student's Name : Umi kalsom binti Ahmad

UITM No. : 2010379101

Title : **Problems in the installation and maintenance of
water supply piping system in government office
building**

Supervisor's Name : Sr En Mahayudin bin Mahmood

Signature : 

Date : January 27th 2014

ABSTRACT

Over the decades, problems in the installation and maintenance still occurred even there is maintenance staff in every commercial building. Maintenance staff in every department plays an importance role in sustain and maintain the building services system include water supply piping system apply in the building. However Malaysia, as a developing country are still premature to faces some staff that lack or aware of their working scope. This situation has lead many problems occurred in the major scope of building services and minor scope of water supply piping system in government office building.

Thus, to identify problem in the installation and maintenance of water supply piping system, this research aims to analyze the determinant problem, types and best opinion on ways to reduce the problem that has been analyze and determine from this research findings. Questionnaire was then developed in targeting maintenance staff as sampling of this research. Set of questionnaire then distributed to all maintenance staff in the building management unit in the selected three case studies. There are not many staff in each building. Three staff in Post Office building, 6 staff in Selangor Secretariat building (SUK) and 3 staff in IPD Shah Alam as IPD Shah Alam building mostly use contractor expertise in maintenance work due to embedded piping system in wall. The data was analyzed using bar graph and line graph.

In data collection, it shows that difficulty to access is the highest and most problems happen in three case studies. No as-built drawing and difficulty to identify exact pipe location problem are also desirable however not conclusively agree as access problem .Other problem mention such as difficult in getting professional advice, changes of instruction from owner/officer, difficult to get original material, minimum offer rate from client, wall and plaster already rot, no plan preventive checklist provided before installation and client/owner ask to use new piping system without briefing. These problems seem to be not a problem at all for them.