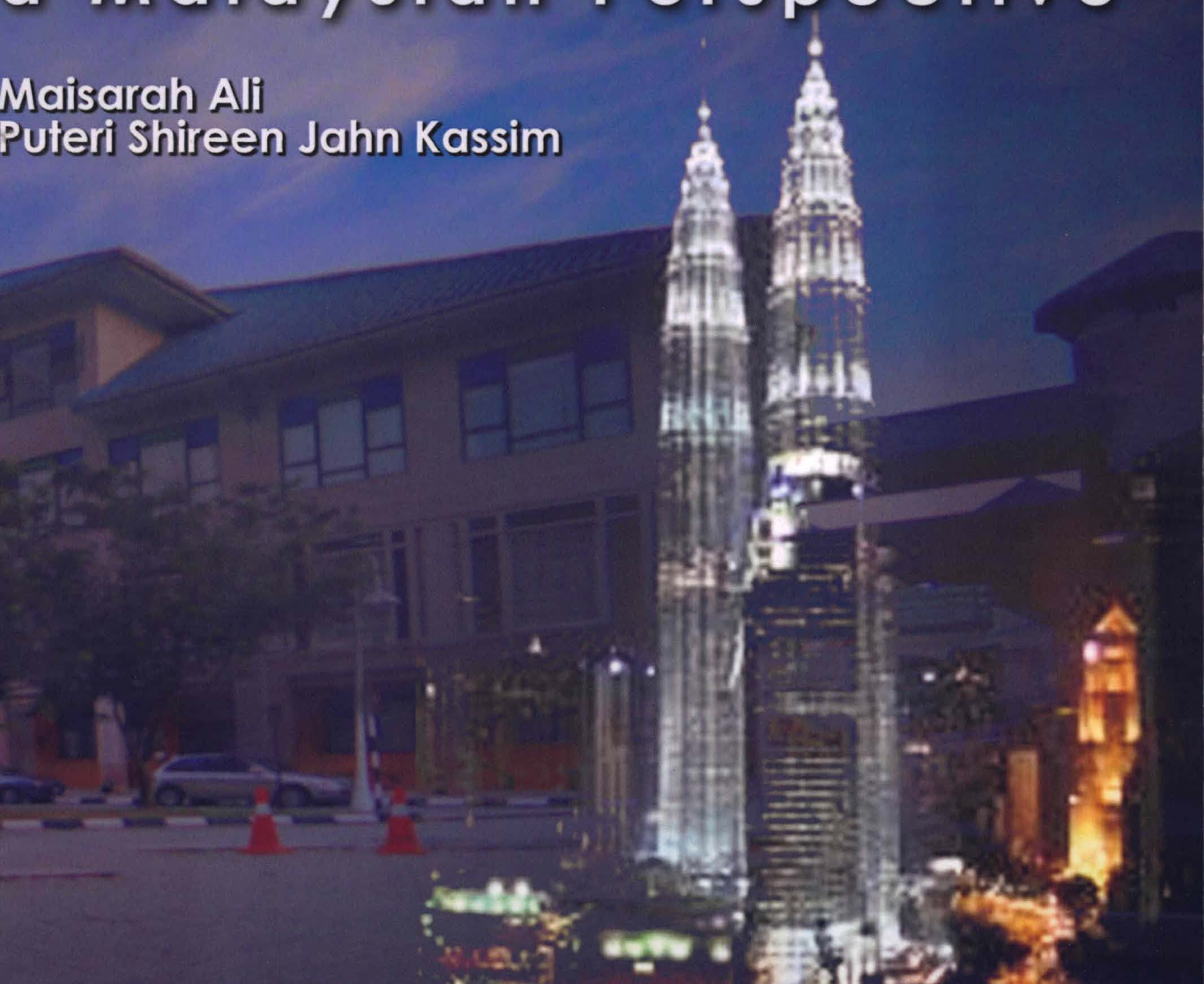


# Issues in Facilities Management and Maintenance

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## a Malaysian Perspective

Maisarah Ali  
Puteri Shireen Jahn Kassim



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ISSUES IN FACILITIES  
MANAGEMENT AND  
MAINTENANCE  
A MALAYSIAN PERSPECTIVE

MASARAH ALI  
PUTERI SHIREEN JAHNKASSIM



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# MOULD GROWTH PREVENTION IN PUBLIC HOSPITALS FUNDAMENTALS, CHALLENGES AND ISSUES

Maisarah Ali, Shireen Jahnkassim, Mohd Shariffuddin Ibrahim, Ibrahim Bamgbopa

International Islamic University Malaysia

## 1.1 INTRODUCTION

Hospitals and healthcare buildings represent facilities with a range of different end uses of indoor spaces and complex functions (Balaras, Dascalaki and Gaglia, 2007 pg.454 and McCarthy & Spengler, 2000 pg 65.3). The need for good indoor air quality and superior environmental control in hospitals is crucial as they support diverse medical functions, practices and systems critical to the health and safety of patients and occupants such as infection control, environmental control hazard control and life safety (ASHRAE, 2003 and AIA, 1993).

The drive to ensure and enhance the indoor air quality of the hospitals indoor environments becomes more pertinent due to the need to reduce the growing numbers of the cases of outbreaks of 'hospital acquired infection' (*Nosocomial*). Hospitals generally have a high rate of *nosocomial* infections (WD, 2008). The trend in Malaysia reveals that approximate 5.44% of two million in-patients in 2004 and 3.39% in 2007 were reported to have acquired nosocomial in the government hospital; more than RM 2.5 million were spent in 2006 to prevent the spread of the superbug ("Keeping a lid on superbugs," *New strait Times*, 11 January, 2008, 14.).

While this was attributed predominantly to airborne infectious microorganisms (mostly bacterial) (ibid), the involvement of toxigenic mould also plays a role in determining the air quality. Previous cases have also identified species of some mould such *aspenicilliu*, *fusariumas* potential causative organisms of nosocomial infection (Sautour et al, 2007) and some species *aspergillus* have also been identified to cause invasive aspergillos in immune compromised patients in hospitals (Curtis et al, 2004; Morey, 2001; McCarthy and Spengler, 2000 pg.65.6; and Morey, 1996).