

26 March 2012

**To Whom It May Concern**

**M/s. IGnesis Consultants Pte Ltd**

IGnesis Consultants Pte Ltd (IGnesis) has provided the performance-based integrated fire safety engineering consultancy services for the new 12-storey National Heart Centre on Lot 0046k TS22 at Hospital Drive for the Ministry of Health.

The scope of work includes:

- a) Means of Escape provisions – Fire engineering assessment to rationalise the exit width provisions by using an integrated performance-based fire engineering design to comply with the prescribed healthcare occupancy load relevant to healthcare project per unit of exit width for the entire building in accordance with Fire Safety and Shelter Department's (FSSD) requirements. The objective is to use performance-based fire engineering design to permit for a more rational means of escape strategy with respect to provisions of staircases, travel distances etc in lieu of the prescriptive requirements of the Fire Code.
- b) The integrated fire engineering design strategy so developed shall be capable of being extended to cover any likely vertical growth of the building, after the building is completed, as and when growth is required.
- c) Emergency ventilation system – validate the atrium smoke control system with a performance-based smoke control strategy for the building atrium.
- d) A feasibility study for the building if it was to exceed 60 m in height. The feasibility study is to outline the fire safety parameters and requirements to form the basis for future works should the works proceed.

IGnesis has secured final approval from the FSSD for the performance-based design in their capacity as the Fire Safety Engineer. IGnesis has displayed commendable competence and dedication in the discharge of their work due to their strong experience and technical capability in their particular specialised field. We would strongly recommend IGnesis for other fire safety engineering projects.

Yours faithfully



Chia Puay Choo  
Director, Operations  
National Heart Centre Singapore