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Ministry of Education  
SINGAPORE

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To whom it may concern;

**PROPOSED ERECTION OF ONE PRIMARY SCHOOL COMPRISING 1 BLOCK OF 6-STOREY BUILDING, 1 BLOCK OF 5-STOREY BUILDING, 2 BLOCKS OF 4-STOREY BUILDING AND OTHER ANCILLARY WORKS ON LOT 01659X PT MK 14 AT BUKIT PANJANG RING ROAD (BUKIT PANJANG SITE 16) –**

**LETTER OF COMMENDATION FOR ENVIRONMENTAL SUSTAINABLE DESIGN (ESD) BY ER HENRY HO KEEN PENG OF IGNEsis CONSULTANTS PTE LTD**

*Letter of Award of Green Mark Platinum: Reference BCA ID GM 986/11/2011 dated 4<sup>th</sup> Mar 2013*

IGnesis Consultants Pte Ltd (IGnesis) is the ESD consultant providing environmental sustainable design for the abovementioned West Spring Primary School (WSPS), which has secured Green Mark Platinum in accordance to BCA Green Mark for New Non-Residential Buildings Version NRB/4.0. The WSPS is among the first four schools to receive the prestigious Green Mark Platinum Award in Singapore. Er Henry Ho Keen Peng is the Principal of IGnesis and the Green Mark Professional (GMP) for the project.

In conjunction with the Architect and Mechanical & Electrical Engineers, Henry provided invaluable green design concepts that contributed to the overall Green Mark Score in order for the project to secure Green Mark Platinum. Henry lead the IGnesis team who is solely responsible for all computerised modelling such as energy modelling, CFD wind modelling, daylighting and glare simulation, and assessment of renewable energy sources in photovoltaic panels. IGnesis also generated all related reports in support of such studies. The computerised modelling is instrumental in securing the Green Mark Platinum Award for the School from Building Construction Authority in year 2013:

- The CFD wind modelling demonstrated that good wind ventilation can be achieved for the classrooms, which is a pre-requisite for Green Mark Platinum.
- The daylighting studies examines the potential for daylighting for the classrooms while the glare analysis ensure that visual comfort is achieved.
- The location of the PV panels are selected after a detail study of the potential shading from adjacent buildings and surrounding obstructions.
- The energy modelling ensured that the required energy savings are achieved.

In close partnership with our team, Henry was able to formulate an innovative ESD strategy taking into due consideration the building design, budget constraints and tight timeline of the project. Henry and the IGnesis team has consistently displayed competence, strong technical capability and professionalism for the duration of the project. Henry and IGnesis has brought along with them a wealth of experience in the specialised field of environmental sustainable design. Henry is a team player and coordinate well with the different stakeholders of the design, authorities and technical teams.

We are pleased with the dedication and commitment from Henry & IGnesis to this project and we would recommend IGnesis for future projects.

Yours faithfully,



Tan Chee Chuen  
Senior Head (Primary Devt Unit)