

FOR IMMEDIATE RELEASE

Tiong Seng and Arcstone co-develop advanced Manufacturing Execution System (MES) for the construction industry

- **Forges strategic alliance with Arcstone to build TS Connect, an advanced Manufacturing Execution System (MES) enabling a data-driven ecosystem via the Internet-of-Things (IoT)**
- **The system will allow construction companies to track and analyse operations in real-time, reducing overall construction costs while enhancing operational efficiency**
- **In line with the Group’s “Manufacturing Construction” philosophy, TS Connect will launch not just in Singapore but overseas markets as well in a bid to transform the construction industry**

SINGAPORE – 16 April 2018 – Mainboard-listed construction group and property developer, **Tiong Seng Holdings Limited (长成控股)** (“Tiong Seng”, together with its subsidiaries, “the Group”), is pleased to announce a strategic alliance with data-analytics specialist, Arcstone Pte Ltd (“Arcstone”), to co-develop TS Connect, powered by Arcstone (“TS Connect”) for its specific application to the construction industry. First-of-its-kind in Singapore, TS Connect will pioneer an advanced Manufacturing Execution System (“MES”) which will support a manufacturing approach for use in the Group’s construction operations.

TS Connect builds on Arcstone’s proven MES which is currently deployed in various sectors such as heavy industry operations, precision engineering as well as in the pharmaceutical industry to name a few. With the introduction of this system, workforce optimisation will be enabled via real-time scheduling, workflow tracking and automated task and time management. Powered by a data-centric ecosystem, useful production data can be tracked and extracted in every process spanning from raw materials usage to the production of the finished end-product, via user-friendly operator dashboards including mobile phones and other portable electronic devices. This enables quicker response times to accommodate workflow changes such as process delays or downtime from malfunctioning machines.

TS Connect strives to establish an unprecedented level of human-machine interaction to re-define construction practices by empowering the Group’s construction practitioners to monitor, maintain, and manage resources efficiently. Real-time data connectivity empowers active monitoring and execution which will streamline the Group’s operations, deliver quality products and reduce overall construction costs. Most importantly, the holistic nature of the platform provides the Group with full control and visibility of the entire Design for Manufacturing & Assembly (“DfMA”) process; data accumulated may then be mobilised to analyse and locate inefficiencies, perform preventive maintenance, or to enforce workforce accountability. TS Connect is therefore well-positioned to elevate and enhance the Group’s DfMA practices to reap an array of operational synergies.

The Group envisions the widespread adoption of TS Connect as the benefits of leveraging on manufacturing technology to improve efficiency and productivity will lead to greater efficiencies across the industry. Backed by Enterprise Singapore, TS Connect will launch not just in Singapore but overseas markets as well in a bid to transform the construction industry at home and abroad.

Mr Pek Lian Guan (白連源), CEO of Tiong Seng Holdings Limited commented, *“Innovations such as the advanced MES reinforces our goal of driving efficiencies through integrating IoT within our operations. Our partnership with Arcstone to develop TS Connect incorporates a data-driven manufacturing ecosystem and elevates our suite of DfMA technologies, which includes Prefabricated Pre-finished Volumetric Construction (PPVC) and Prefabricated Bathroom Units (PBU), to an even higher level. Furthermore, the establishment of TS Connect provides a steady platform for us to export our manufacturing-for-construction capabilities offshore while our joint venture partners overseas can have access to an all-encompassing system. Following the recent success in Myanmar, where we completed the Yuzana low-cost housing project in March 2018, TS Connect represents another key milestone as we continue to garner momentum in exporting our capabilities overseas and set our sights on expanding throughout the region in the years ahead.”*

Mr Willson Deng, CEO of Arcstone Pte Ltd further commented, *“Through this strategic alliance with our renowned partners, we are able to tap on a proven track record and comprehensive technical know-how to enhance, customise and empower Arcstone’s existing MES for its specific application to the construction industry. Notably, construction players who engage with our proprietary TS Connect system will gain end-to-end connectivity across the entire construction process while also gaining key insights from its data analytics capabilities. With TS Connect, we are pleased to note that we are one step closer to revolutionising the construction industry in Singapore moving forward.”*

Said **Mr Kow Juan Tiang, Executive Director, Urban Solutions and Infrastructure Services, Enterprise Singapore**, *“This collaboration between Tiong Seng and Arcstone is a good example of how our firms are able to collaborate to deliver improved solutions and ride on the Industry 4.0 wave. Technologies like the Internet of things (IoT), cloud computing, and data analytics have transformed manufacturing and disrupted traditional modus operandi of companies. This partnership taps on Tiong Seng’s strengths as an industry leader, and Arcstone’s niche technology solution, allowing manufacturing technology to be applied to the construction sector. It is timely to reinvigorate the construction sector in Singapore with tech adoption as it enables local players to become more competitive as they expand their footprint beyond our shores. Enterprise Singapore hopes to facilitate more of such partnerships to help our companies develop internal capabilities and expand abroad effectively.”*

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About Tiong Seng Holdings Ltd

Tiong Seng is principally engaged in building construction and civil engineering in Singapore, and property development in the China.

With an established track record of over 59 years, Tiong Seng is one of the leading building construction and civil engineering contractors in Singapore. It holds the highest grading of A1 from the Building Construction Authority of Singapore (BCA) for both general building and civil engineering, which qualifies the Group to undertake public sector construction projects with unlimited contract value.

Tiong Seng's property development business focuses on developing residential and commercial projects in various second- and third-tier cities in the China. The Group has successfully developed properties in Tianjin, Suzhou and Yangzhou and it currently has four on-going projects in the Bohai Economic Rim, which is one of the main economic zones in the China.

Introduction to Arcstone Pte Ltd

Arcstone has racked up numerous awards in Singapore and internationally. In 2016, Arcstone was presented as a finalist for the National Infocomm Award (NIA) under the category of Most Innovative Infocomm Product/Solution. The NIA is Singapore's highest accolade for infocomm innovation and is awarded to organisations and companies in Singapore which have embodied the spirit of innovation in their development and the use of new infocomm products and services to achieve excellence. In the same year, Arcstone was conferred the esteemed Frost & Sullivan Excellence Award where Arcstone was the 'Singapore IoT In Manufacturing Entrepreneurial Company of The Year'. This award identifies best-in-class companies that have demonstrated excellence in their respective industries through superior leadership, technological innovation, customer service, and strategic product development.

Issued on behalf of Tiong Seng Holdings Ltd. by: Financial PR

Financial PR

Mr. Tok Chong Yap/ Mr. Jonathan Wee

Investor Relations Consultants

Tel: (65) 6438 2990 | Fax: (65) 6438 0064

Email: tionseng@financialpr.com.sg