

Annex A2

Fact Sheet on Tiong Seng and its WSH Initiatives

Tiong Seng Contractors (Pte) Ltd (Tiong Seng) is a leading Singapore contractor registered with Building Construction Authority (BCA) of Singapore, under the highest financial grade of A1 (Unlimited contract value) for both Civil Engineering and General Building Construction. Established in 1959, the company has developed its core competencies and acquired valuable expertise and experience in its field and has successfully completed a wide range of projects including Hotels, Mixed Developments, Residential, Commercial, Institutional, Industrial, Landed Housings, Deep Tunnel Sewerage Systems, Road works and Flyovers in Singapore and the region.

Tiong Seng's mission statement is to be a leading provider of safe and quality products and services for all types of developments in the construction industry. It believes that “**EHS starts from Planning**” and strives at finding new ways to create value and earn trust based on integrity and experience. The company's strong Environmental Health Safety (EHS) corporate culture, knowledge and expertise, technical skills, system and calibre of its human resources are the combined factors that make it unique.

At present, there are a total of 10 ongoing construction projects under Tiong Seng. Tiong Seng management's commitment and belief on Environmental Health Safety (EHS) has helped them to reduce accidents in workplaces greatly since 2005. A strong EHS culture within the company, the involvement of project teams and workers on EHS, our consistent efforts to uphold high EHS standard and the implementation of the EHS management system on our projects were the critical reasons for our significant improvement in our workplace safety and health record since 2005.

Over the years, Tiong Seng has taken numerous initiatives to improve the management of EHS in the company and its projects. Some of successful key initiatives to increase productivity, overcome the problem of shortage of manpower and manage EHS include,

- 1) Identifying high risk activities and implementing control measures to prevent accidents (applying hierarchy of controls) at the initial stage of project
- 2) Reviewing of monthly corporate EHS performance by top management
- 3) Introduction of EHS integrated systems especially for work at heights (our targeted area)
- 4) Using precast construction (95% elimination of scaffolds) to eliminate work at heights (our targeted area)
- 5) Using innovative prefabricated and reusable barricades for floor openings and building edges
- 6) Specifying TSC bizSAFE requirements in the tender documents for the sub-contractors

- 7) Formation of 5 members TSC bizSAFE Committee (Snr PMs and Snr EHS Personnel) which is to guide and mentor the selected contractors and conducting EHS performance review on a quarterly basis
- 8) Setting target for EHS training (20hrs/worker/month) to educate our workforce sufficiently
- 9) Incentivising Best EHS performance project team by providing them with an opportunity to attend seminars and learn best practices and to travel to United Kingdom to receive the RoSPA award
- 10) Providing good welfare facilities for workers including rest areas, vending machines, drinking water, RAS certified clean toilets, etc

According to the WSH report in 2010, there was a great reduction in their accident rates in the workplaces is a testament of the effectiveness of the above key initiatives. The key results of their efforts are as follows:

- Accident Frequency Rate (AFR) - 0.6
- Accident Severity Rate (ASR) - 22
- Injury Rate (IR) - 185
- Fatality - 0
- Permanent Incapacity - 0
- Occupational Disease - 0
- Dangerous Occurrence - 0

The company has adopted various types of audits for projects to measure and ensure the compliance with EHS targets and practices. They include:

- 6-monthly Mandatory audit (CP 79) for projects
- 6-monthly ConSASS audit for projects since 2008
- SS 506 : 2009 part 1 audit for corporate and projects
- OHSAS 18001 : 2007 audit for corporate and projects
- Monthly & quarterly audits (Client requirement) for the projects

Presently, the company's focus and implementation of EHS is in 3 areas:

- a) Work at Heights – Due to our high rise building constructions
 - Identified as one of the top critical risks
 - Fall Protection Plan drafted and endorsed by the top management for implementation and monitoring
 - Use of innovative and reusable barricades and opening covers to prevent falls
 - Introduction of educations programmes and promotional activities
- b) Crane Safety – Multi-crane operations (Tower Cranes & Mobile Cranes)
 - Identified as one of the top critical risk
 - Lifting Plan drafted and endorsed by the top management for implementation and monitoring.
- c) Traffic Management – Projects along the public roads and internal site roads
 - Identified as one of the critical risks

- Implementation of traffic management plan for traffic outside and inside the project
- Identified as one of the external training requirements and train our traffic controllers and provision of necessary traffic control equipments.

In recognition of our efforts and EHS standards, Tiong Seng has won many prestigious local WSH and international RoSPA awards for the project teams and the company. Tiong Seng will strive to continue to improve on its EHS standards.