

Construction Industry Council

Committee on Productivity

Meeting No. 004/16 of the Committee on Productivity was held on 6 December 2016 (Tuesday) at 2:00pm at Meeting Room, Zero Carbon Building, 8 Sheung Yuet Road, Hong Kong.

Summary Notes of the Committee on Productivity Meeting No. 004/16.

Agenda Item	Paper	Major Resolutions/ Progress Highlights
4.1	CIC/PNR/R/003/16	<u>Confirmation of the Progress Report of the Previous Meeting</u> Members confirmed the Progress Report of the Com-PRO Meeting 003/16.
4.2	-	<u>Consultancy Service for Assessing the Performance of the Hong Kong Construction Industry, Key Performance Indicators (KPIs): An International Comparison Study</u> Dr. Kelwin WONG from HKU delivered a presentation on the progress of the consultancy which started in June 2015 for target completion in 1 st Q 2017. Dr. WONG has collected data for the KPIs mainly in productivity, site safety, manpower and construction cost, and would compare them with the relevant figures in other economies. Dr. WONG was studying the factors affecting the trends of KPIs and would propose improvement strategies in a specific manner.
4.3	-	<u>Practical Guidelines on Seismic Detailing for Concrete Buildings in Hong Kong</u> Dr. Ray SU from HKU delivered a presentation on the findings of the research. The research started in July 2014 and completed in March 2016. Dr. SU has prepared guidelines on seismic detailing on walls, dual and frame systems of concrete buildings in Hong Kong. Buildings Department (BD) is concurrently carrying out review on codes for structural use of concrete. The guidelines would be circulated to Com-PRO members for comments and then provided to BD for their consideration.

Agenda Item	Paper	Major Resolutions/ Progress Highlights
4.4	-	<p><u>Quality Control and Quality Assurance of Asphalt Pavement Construction Using Innovative Non-destructive Methods</u></p> <p>Dr. Zhen LENG from PolyU delivered a presentation on the progress of the on-going research. The research started in March 2015 for completion in March 2017. The study is to investigate the practical application of adopting electromagnetic density gauges and ground penetrating radar, non-destructive test (NDT) devices, for testing density of asphalt for road works in Hong Kong. Though the accuracy of the NDT devices is a concern, it can supplement the authority to locate potential defect spots on site so that destructive test can be conducted in localized areas.</p>
4.5	CIC/PRO/P/011/16	<p><u>Endorsement on Investigating the Potential Application of 3D Printing Technology for Construction Supply Chains in Hong Kong</u> <i>(Study by Prof. SKIBNIEWSKI from Maryland University, USA)</i></p> <p>Committee Secretariat delivered key points of the Paper to seek members' endorsement on the study. Members shared that the study could serve as strategic research on 3D printing technology for industry application before large scale implementation. To enhance practicality of the study, Committee Secretariat would contact Prof. SKIBNIEWSKI to identify imminent industry areas in the study that could benefit the most from 3D printing and explore its integration with BIM. There should be deliverables during the study to provide practical ideas to industry stakeholders.</p>
4.6	-	<p><u>Any Other Business</u></p> <p>(i) Committee Secretariat tabled a work plan on the follow-up action of the consultancies under the Com-PRO. It was targeted the consultants to provide specific suggestions and strategies, e.g. technological aspect like prefabrication and buildability, etc. and regulatory aspect in the studies. Members supported to engage consultants to investigate integration of buildability in project planning and design which should take into account the findings of other relevant studies in CIC and Government. Committee Secretariat would draft the brief.</p>

Agenda Item	Paper	Major Resolutions/ Progress Highlights
		<p>(ii) The Chairman appreciated the new development in prefabrication as observed in attending a CTBUH¹ conference in Shenzhen. Members considered that a one-day seminar and/or field trip on “Prefabrication” could be arranged in 2017 for promotion. Committee Secretariat would follow up the issue.</p> <p>(iii) Committee Secretariat briefly introduced the visit to LSCM² – R&D centre. Members supported CIC Secretariat to coordinate a forum with LSCM which could serve as platform for discussion of the industry stakeholders.</p>
4.7	-	<p><u>Tentative Date of Next Meeting 001/17</u> The next meeting was scheduled in March 2017. The Committee Secretariat will inform Members once the meeting date is confirmed.</p>

Remarks: The mentioned papers discussed at the Committee on Productivity and the full progress report can be made available to Council Members from the CIC Secretariat upon request.

¹ CTBUH stands for Council on Tall Buildings and Urban Habitat. The theme of the conference is “Cities to Megacities: Shaping Dense Vertical Urbanism”

² Logistic and Supply Chain Management Enabling Technologies