

Construction Industry Council

Committee on Productivity

Meeting No. 001/17 of the Committee on Productivity will be held on 29 March 2017 (Wednesday) at 2:30pm at Meeting Room, 38/F, COS Centre, 56 Tsun Yip Street,, Kwun Tong, Kowloon.

Summary Notes of the Committee on Productivity Meeting No. 001/17.

Agenda Item	Paper	Major Resolutions/ Progress Highlights
1.1	CIC/PNR/R/004/16	<u>Confirmation of the Progress Report of the Previous Meeting</u> Members confirmed the Progress Report of the Com-PRO Meeting 004/16 without amendment.
1.2	-	<u>Achieving Productivity Leap through Construction Process Re-engineering</u> Mr. Jeff FUNG from Hong Kong Productivity Council (HKPC) presented the progress and initial finding of the project which started in November 2016. Mr. FUNG was exploring standardization of design to reduce the time for learning cycle, on-site automatic equipment for bar cutting, bending and fixing, and systematic layout planning to reduce the time waste in material delivery, etc. Com-PRO members requested HKPC to conduct field trials to quantify the effectiveness of their proposed measures. With Com-PRO's endorsement, the project would be extended by two months to September 2017 to facilitate HKPC to collect adequate data for verification of findings.
1.3	CIC/PRO/P/001/17	<u>A Comprehensive Productivity Appraisal of the Hong Kong Construction Industry</u> Dr. Wei PAN from the University of Hong Kong (HKU) presented the findings of the draft final report of the project which started in December 2015 for target completion in June 2017. After focus group meetings in February 2017 and 1 st international forum (on Singapore experience) in March 2017, Dr. PAN had identified productivity enhancement measures e.g. increasing precast construction, promoting BIM and innovation, etc. Com-PRO members supported in-principle to the direction of the draft report. Members requested HKU to prioritize the measures in a more specific manner with emphasis on those with imminent need and greater effect. Reference should

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		be made to successful overseas cases. The 2 nd international forum with focus on UK experience will be held in April 2017. The final report was expected to be available in June 2017.
1.4	-	<p><u>Benchmarking the Construction Trade Productivity in Hong Kong</u></p> <p>Dr. Eric ZHANG from Hong Kong University of Science and Technology (HKUST) presented the project progress which started in February 2015. HKUST had expedited data collection through (i) on-site measurement, (ii) collection of past data via site diaries, and (iii) conducting interviews and survey with key stakeholders. Dr. ZHANG also got some oversea data from Singapore BCA.</p> <p>With Com-PRO's endorsement, the project would be extended by seven months to August 2017 to facilitate HKUST to collect more private site data for benchmarking the trade productivity and productivity data from Singapore and Mainland for comparison.</p>
1.5		<p><u>Consultancy Service for Assessing the Performance of the Hong Kong Construction Industry, Key Performance Indicators (KPIs): An International Comparison Study</u></p> <p>Prof. Thomas NG from HKU presented the progress update of the project which started in June 2015. Prof. NG has compiled KPIs mainly in productivity, site safety, manpower and construction cost, etc. He would consult relevant industry stakeholders on the findings shortly. They would propose improvement measures making reference to specified observations in the KPIs. With Com-PRO's endorsement, the project would be extended by four months to July 2017 to facilitate HKU to consult the industry.</p>
1.6		<p><u>Application of Polygonal High Strength Concrete-filled Composite Column in Seismic-resistant Building in Hong Kong</u></p> <p>Dr. T M CHAN from Hong Kong Polytechnic University (PolyU) presented the progress of the research and sought members' comments. The research started November 2015 and for completion in November 2017. This study is to investigate a polygonal shaped composite column</p>

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		using high-strength concrete under monotonic load and cyclic load under earthquake. After completing the study, PolyU would circulate the findings to Com-PRO members for comments and Buildings Department for their consideration to incorporate in their seismic design code.
1.7	-	<p><u>Any Other Business</u></p> <p>(i) Members agreed that CIC and HKUST co-organize a half day symposium on construction robotics and automation, Committee Secretariat would follow up the issue with HKUST¹.</p> <p>(ii) Committee Secretariat reported the follow-up action for the collaboration with other research institutes in construction. CIC Secretariat tentatively scheduled to co-organize a forum with LSCM² and NAMI in Q3, 2017. Committee Secretariat would follow up the issue.</p> <p>(iii) Committee Secretariat briefly introduced the progress in preparation for a 5-day delegation visit to Japan on “<i>Prefabrication and Automation</i>”. Committee Secretariat welcomed members to suggest suitable visiting spots and would follow up with the Japan counterparts.</p> <p>(iv) Committee Secretariat reported the endorsement by the Com-PRO members about the revised proposal on the project “<i>Investigating the Potential Application of 3D Printing Technology for Construction Supply Chains in Hong Kong</i>”. Committee Secretariat would proceed with the preparation of contract documents.</p>
1.8	-	<p><u>Tentative Date of Next Meeting 002/17</u></p> <p>The next meeting was scheduled in June 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 It includes HKUST Robotics Institute and HKUST’s Department of Civil and Environmental Engineering.

² Logistic and Supply Chain Management Enabling Technologies