

Construction Industry Council

Committee on Productivity

Meeting No. 001/18 of the Committee on Productivity (COM-PRO) was held on 24 May 2018 (Thursday) at 3:00pm at Board Room, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon.

Summary Notes of the COM-PRO Meeting No. 001/18.

Agenda Item	Paper	Major Resolutions/ Progress Highlights
1.1	CIC/PRO/P/001/18 (for endorsement)	<p><u>Proposed 3-year Strategic Plan of Com-PRO</u></p> <p>The Secretariat presented the paper proposing 3-year strategic plan (2019 - 2021) with detailed timeline and associated budget of Com-PRO.</p> <p>The paper proposed new initiatives to enhance productivity of the Hong Kong construction industry in the directions of i) factory-based construction, ii) mechanised construction, iii) monitoring construction productivity and iv) enabling construction productivity, through formulation of consortiums, publication and seminars, international conferences, feasibility studies, setting up of task forces on factory-based construction and robotics and automation, and others initiatives.</p> <p>After deliberation, members endorsed the 3-year strategic plan and budget. The Chairperson invited members to suggest other initiatives to be included in the action list for Com-PRO's further discussion. Suggested initiatives would be prioritised with consideration of their impact and resources required.</p> <p>[Post Meeting Notes: The 3-year strategic plan would be submitted to the CIC Council at the upcoming meeting in June 2018.]</p>

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		The Com-PRO endorsed to transfer the Working Group on Flat Inspection, currently chaired by Mr. Ivan FU, to the Committee on Construction Procurement (Com-CPT), and the associated budget for the Working Group was also endorsed by members.
1.2	CIC/PRO/R/004/17 (for endorsement)	<p><u>Confirmation of the Minutes of the Previous Meeting</u></p> <p><u>Matters arising from the Previous Meeting</u></p> <p>Item 4.3: The research study titled “Modular Integrated Construction for High-rise Buildings in Hong Kong: Supply Chain Identification, Analyses and Establishment” was commenced on 3 April 2018 and would be monitored by the Joint Working Group on Modular Integrated Construction (MiC).</p> <p>Item 4.4: The Council approved the proposal on “Development of Innovative Self-Compacting Backfilling Material for Pavements in Hong Kong Road Network” submitted by the Nano and Advanced Materials Institute Limited (NAMI) in February 2018. Subsequently, the funding from the Innovation and Technology Commission (ITC) was secured in March 2018. The research would commence on 2 July 2018.</p> <p>Members endorsed the progress report (Paper CIC/PRO/R/004/17) with no further comments.</p>
1.3	-	<p><u>Terms of Reference of Com-PRO</u></p> <p>Members received a brief introduction of the Terms of Reference of Com-PRO.</p>
1.4	-	<p><u>Progress Update on the Works of Com-PRO</u></p> <p>The Secretariat presented the key initiatives of Com-PRO to Members as follows:</p> <p>a) Assessing the Performance of HK Construction Industry Key Performance Indicators (KPI): An International Comparison Study;</p>

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		<ul style="list-style-type: none"> b) Benchmarking the Construction Trade Productivity in Hong Kong; c) A Comprehensive Productivity Appraisal of the Hong Kong Construction Industry; d) Achieving Productivity Leap through Construction Process Re-engineering; e) Investigating the Potentials of Implementing Robotics and Automation in the Context of Large-scale Housing Development for Hong Kong; f) Development of Innovative Self-Compacting Backfilling Material for Pavements in Hong Kong Road Network; g) Feasibility Study of Lego-inspired Construction: <ul style="list-style-type: none"> - Members were concerned about the law to be adopted to govern the agreement, and also doubted about the applicability of the dismantle feature in Hong Kong. After deliberation, members turned down the feasibility study proposal; and h) Future Application of 3D Printing in Construction: Impact on Construction Industry Supply Chains in Hong Kong: <ul style="list-style-type: none"> - Members were concerned about the issues of inspection, regulations and submission process of the Buildings Department (BD). After deliberation, the Chairperson suggested that the proposed study should consider BD's requirements and would be kept in view of the action list for Com-PRO.
1.5	-	<p><u>Achieving Productivity Leap through Construction Process Re-engineering</u></p> <p>The Hong Kong Productivity Council (HKPC) presented the project findings with highlights on how efficiency could be improved for formwork erecting, on-site rebar cutting and bending, and concreting operations, and the possible extended study in verifying the suggestions.</p> <p>The Chairperson opined that HKPC should stay in close contact with the relevant trade unions or associations to seek their comments and to formulate an effective re-engineering process with the possible extended study.</p>

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1.6	-	<p><u>Innovative Backfilling Materials for Pavements in Hong Kong</u></p> <p>NAMI presented to members the research details and payment schedule. The proposed material was expected to outperform current practice due to its high thermal conductivity, flowability and workability.</p> <p>The Chairperson reminded members the payment term of the research which required the CIC to pay HK\$1.5 million by the mid-point of progress (i.e. the 9th month after the commencement).</p>
1.7	CIC/PRO/P/002/18 (for endorsement)	<p><u>Research Proposal on high performance precast concrete shear wall system with trapezoidal connections</u></p> <p>Dr. Ray SU presented to members the significance, objectives, methodology, related budget and schedule of the proposed research.</p> <p>Members indicated that the Hong Kong Housing Society (HKHS) has already adopted the similar precast concrete shear wall system in three projects and worked out with BD in various details of trapezoidal connection joint for construction purpose. Dr. SU responded that the research aimed to conduct tests to demonstrate the effectiveness of different reinforcement arrangement details in term of seismic design.</p> <p>The Chairperson noticed that there was no conclusion on seismic-resistant building design codes and requirement from BD at the moment. Having considered the issues of originality and significance, the proposed research was being rejected.</p>

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1.8	-	<p><u>Any Other Business</u></p> <p>Committee Secretariat would present to members the outcome of the 7-day trip to Finland & Germany (from 13 June to 21 June 2018) on automation technologies at the next meeting.</p> <p>Ir Rocky POON, was nominated as the representative of Com-PRO to participate in the Working Group of the Construction Innovation and Technology Fund (CITF). The Secretariat would follow up and confirm with Ir POON accordingly.</p>
1.9	-	<p><u>Next Meeting 002/18</u></p> <p>The next meeting will be held in July 2018. The Secretariat would inform members once the meeting details are 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.