



18 Mar 2013

"REVIEW PANEL ON EARTH CONTROL MEASURES BY QECP"

Further to earlier Circular dated 4 Feb 2013 regarding Review Panel on Earth Control Measures by QECP, the following circulars are attached for your information:

- **TERMS OF REFERENCE**
- **REVIEW MECHANISM**
- **CIRCULAR DATE 4 FEB 2013**

Please feel free to contact Kok Sun [koksun@iesnet.org.sg] at 64695000 for clarifications.



TERMS OF REFERENCE

REVIEW PANEL ON EARTH CONTROL MEASURES (ECM) SUBMISSIONS BY QUALIFIED EROSION CONTROL PROFESSIONAL (QECP)

OBJECTIVES

- To put in place a system to monitor and maintain the professionalism of QECP services.
- To conduct periodic audit checks on the ECM plans designed by the QECP and the actual implementation of ECM on-site, as supervised by the QECP.
- To take appropriate actions against QECPs with erroneous submissions or poor performance.
- To promote fair and good QECP service standards.

REVIEW PANEL COMPOSITION

- Mr Quah Hock Lai (PUB)
- Mr Goh Wee Kiat (PUB)
- Er. Dr Chew Soon Hoe (NUS)
- Er Teo Ee Huat (Ngee Ann Poly, Co-Chairman, IES/ACES QECP registry)
- Er Leong Sow Hon (Chairman, IES/ACES QECP Registry)
- Er Lim Peng Hong (IES/ACES QECP Registry)
- Er Ooi Lin Kah (IES EC Sub Committee)
- Er Sim Mui Leng (Chairman, IES EC Sub Committee)

TERM OF APPOINTMENT

- 1 Mar 2013 to 31 Mar 2016

WORK PLANS

- The review session shall be carried out on a quarterly basis. Depending on the need for the review, and availability of projects that meet the selection criteria, the frequency for the review sessions may be adjusted accordingly.
- The Panel shall set the projects selection criteria for PUB to pre-select a list of projects. The Panel shall select not more than 5 projects for review for each review session.
- The QECP Registry Panel will arrange for the QECP of selected projects to attend the review.
- The Panel shall submit the audit report and recommended actions to the PUB/QECP Registry.
- The Panel shall disseminate and share the audit findings with the QECP community.
- Ad hoc audits may be held on projects upon public feedback/complaints on poor ECM of such projects or upon request by PUB.

Mr Tan Nguan Sen
PUB Director
Catchment & Waterways

Prof Chou Siaw Kiang
IES President

Er. Koh Boon Liang
ACES President

Review Panel on Earth Control Measures (ECM) submission by Qualified Erosion Control Professional (QECP)

Review Mechanism

1. The review session will be carried out on a quarterly basis. Construction projects subject to the review will be pre-selected by PUB. (Note: Additional review sessions may be held upon feedback received through PUB.)

PUB will pre-select the projects based on the following Panel's selection criteria:

- QECP with exceptionally high records of ECM submission
 - ECM projects near to sensitive areas, where PUB would want to pay more attention
 - Large Project with site area say exceeding 6 hectare and above
 - Contractors who have been issued warning letters/ Fines regularly and have not improved in ECM implementation
 - ECM submission where PUB having issues with QECP who do not comply with requirement
 - QECP accorded with demerit points.
2. Each Review Session should be conducted by a Panel comprising of at least a representative each from PUB, IES and ACES. The Review Panel will decide and assess not more than 5 submissions pre-selected by PUB.
 3. The QECP of selected projects would be notified two weeks in advance before the review session. QECP shall prepare a power point presentation on the ECM submission and make a 15 minutes presentation. The QECP shall be present in person. Review Panel would assess the QECP presentation and submission based on:
 - Part A - Review Panel would assess the QECP's understanding of the ECM design principles and implementation schedules.
 - Part B - Review Panel would highlight possible improvement / enhancement to QECP's project for better site implementation, where applicable.

4. The Review Panel would make an assessment on the QECP's technical competency based on Part A and, where applicable, recommend necessary actions to the QECP Registry Board for subsequent follow-up.
5. Where applicable, the Review Panel would inform PUB on its findings/ proposals as stated under Part B and require that the QECP to make a resubmission. (Note: PUB will issue only conditional approval for those selected-for-review projects).
6. A QECP deemed by the Panel to have unsatisfactory ECM for a project design would be accorded two (2) demerit points. Factors taken into consideration would include design parameters and rainfall intensity adopted, sizing of sedimentation controls and capacity and adoption of treatment plant and provision of post design services to check and advise on actual implementation on site, in tandem with changes in construction phases.
7. A QECP who accumulates 6 demerit points within ONE year, or 12 demerit points within TWO consecutive years, would be suspended from renewal of practicing certificate for one year.
8. Any demerit points issued will be valid for a period of 2 years



4th February 2013

"REVIEW PANEL ON EARTH CONTROL MEASURES BY QECP"

- 1 Over the past 30 years, the weather patterns in Singapore have changed, with more intense rainfall and uncertainties in rainfall trends. To minimize flood risk, PUB, in consultation with the industry stakeholders, had revised the Code of Practice on Surface Water Drainage in Dec 2011 to raise the flood protection standards in Singapore.
- 2 Along with the amendments, the silt control requirements have also been revised to ensure that the Earth Control Measure (ECM) requirements remain effective under the changing weather patterns. The revised ECM requirements, which include requirements for a design to cope with minimum design rainfall intensity of a return period of 1 in 5 years, and at least 600mm high kerb for sites at a higher platform as compared to the surroundings premises, took effect in Apr 12.
- 3 The Qualified Erosion Control Professional (QECP) scheme, introduced since Jul 06, remains a key driver in sustaining/ enhancing the technical standards of ECM in the construction industry.
- 4 Currently, there are 215 QECPs, out of which 140 are actively involved in ECM works. With the current large QECP pool, it is now timely to put in place a technical audit system to keep the quality of the QECP services in check. In view of that, IES, ACES and PUB have formed a QECP Review Panel to conduct review on ECM submissions and site inspections. As a start, the review session will be carried out on a quarterly basis or upon feedback/complaints received through PUB. Construction projects subject to the review will be selected on a random basis. The QECP of selected projects would be notified accordingly.
- 5 Please share this circular with your members and relevant project officers.
- 6 Please feel free to contact Kok Sun [koksun@iesnet.org.sg] at 64695000 for clarifications.