

Summary of Decisions of the Structural Engineering Committee  
SEC Meeting 8/2014 held on 10.10.2014

(a) Case HD 01/2014

Issue: Mini-piles socketed into grade III rock with a total core recovery greater than 85% and equivalent point load index strength  $PLI_{50}$  less than 1 MPa

Recommendation:

1. To accept the design principle of mini-piles (273mm diameter) having rock sockets formed in slightly to moderately decomposed moderately strong rock of material weathering grade III, with a total core recovery of more than 85% of the grade, and with equivalent point load index strength  $PLI_{50}$  less than 1 MPa.
2. To accept the allowable bond strength between the above pile founding rock material and grout with reference to the presumed values for category 1(d) rock in Table 2.2 of Clause 2.2.2 of Code of Practice for Foundations (Published in 2004) subject to satisfactory verification by static loading tests on total two (2) nos. of trial piles for two (2) sites (i.e. one trial pile per each site).
3. To accept the design capacity of mini-piles limited to 1000kN in compression and 500kN in transient tension due to wind.

Decision: Noting the method of verifying the design principles and the capping of the pile capacity, members endorsed the recommendation.