

Design Guidance for Pile Installation in Weak Rock - Clarification Questions and Responses

ID	Document Reference	Questions	Responses
1	ITT Section 2.3	The main objectives of the work appear to focus mainly on 'pile installation', while only limited reference is made to the capacity aspects of pile, which ultimately determine the size of pile that needs to be installed. Can it be clarified if it is desired to have a procedure that is (i) a methodology to design the installation process for a given size of pile size, or (ii) a methodology for both the in-place capacity/response after installation, and the pile installation?	It can be assumed that (ii) is correct. We would like to develop this for in-place and installation design.
2	ITT Section 2.3	The objectives emphasise that the methodology should be 'without reliance on location specific testing'? Can it be clarified if this means (i) there should be no load testing needed for the methodology (including generalised load testing to develop relationships for the methodology in different weak rocks) or (ii) there should be no load testing required on a project by project basis, but there may be some generalised testing needed for specific weak rocks to develop relationships?	The overall aim would be to target having no reliance on location specific testing. In this case, (ii) is most accurate. Although, for clarity, what is meant relates to scaled tests and not laboratory tests.
3	ITT Section 2.3	Can it be clarified what is meant by 'novel or unproved test processes'?	These are processes that have not yet been used on commercial projects.
4	ITT Section 2.3	Can you provide examples of what would be classified as 'impracticable drilling/installation practices'?	Those which the drilling/ installation contractors have no experience or would result in unbuildable foundation solutions.
5	ITT Section 4 WP1	Are the OWA Partners open to sharing information that they may have that is relevant to the 'Review of existing knowledge'?	Anonymised data from the OWA partners might be available for use in this report but should not be relied upon.

6	ITT Section 4 WP1	Can we expect data (geotechnical survey, pile driving data (hammer energy-blow count), Pile Driving Monitoring (PDM) and/or pile tests where available) from existing offshore wind farm developments in weak rock (Gwynt Y Mor, Teesside, Wiking, Lynn & Inner Dowsing etc)?	Anonymised data from the OWA partners might be available for use in this project but should not be relied upon. The consultant should also declare as part of their proposal what information they have available.
7	ITT Section 4 WP1	Further to the above, will relevant info from JIPs, that the OWA developers have been involved in, be released?	Anonymised data from the OWA partners might be available for use in this report but should not be relied upon.
8	ITT Section 4 WP2	Can it please be clarified that weak rock includes chalk and cemented sands?	Yes, both are included under the scope.
9	ITT Section 4 WP2	Can the mapping be narrowed down into areas with developing offshore wind markets with consented wind projects?	Yes.
10	ITT Section 4 WP3	Are the technologies expected for fixed solutions only?	Yes.
11	ITT Section 4 WP4	Can we include further optional scope for numerical modelling techniques in weak rock?	Yes.