

## Summary of Scope of works

Contractor: KMASS Marine Ltd

Location of Works: Craobh Marina, All works within the curtilage of Marina and existing slipway

Description: Repair and reinforcement of existing slipway

Detail of works:

This is for a permanent fix not temporary, with the option of future extension of the slipway.

We propose to core 4-6 holes throughout the end of the slipway, and this is where we will pour concrete/ grout mix through to achieve the voids filled within the underside of the slip.

Grout type:

As per IS-456 (2000) underwater concrete: The water-cement ratio shall not exceed 0.6 and may need to be smaller, depending upon the grade of concrete or type of chemical attack. For aggregates of 40 mm maximum particles size, the cement content shall be at least 350 kg/m<sup>3</sup> of concrete

An anti wash out agent will also be added to each batch as per ratio recommended.

Concrete contains three ingredients: sand or gravel, water, and cement to hold it all together. The type of cement used for most construction, including underwater construction, is Portland cement. Made from heated clay and lime, Portland cement is the secret to concrete's ability to set underwater.

A continuous barrier of silt curtains be installed prior to any work

We will be using rock armour to stop any further under scour to the slipway.

Our intention is to cut along the crack on the top of slipway and fill with grout to achieve a full bond to existing slipway.

We will use a steel shuttering system for this project, with gravel bagging to minimise shutter movement.

This shutter system and gravel bags will be removed after works are completed.

We have also priced for an excavator to dig out channels for the shutters and back fill with rock armour.

All materials and labour/ dive team has also been added.

This job is surface supply/ construction diving and all equipment required will be supplied.

A method Statement is supplied separately