

# PERMEATION GROUTING

## TECHNICAL SHEET

Permeation grouting has found its wide application to fill the cracks in rocky strata or permeate the grouts in sandy or granular type of material in order to create the cement mass.

### APPLICATIONS



Permeability Control of ground water flow

Slope stability and or excavation support

Underpinned foundations

Shifting sand problem

### PROCEDURE

Depending on soil conditions, Portland cement or microfine cement are inserted inside in the soil mass or at required depths. Perforated PVC pipes may be inserted for unstable boreholes and grout shall be inserted as required pressure or flow rate. Grouting material shall be selected based on the particle size of soil. Inserted grout mass increases the strength of the loose soil mass or reduces the permeability of the soil

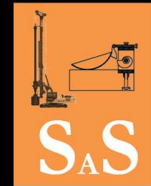
### QUALITY ASSURANCE

In order to ensure grout specifications, SASGE have necessary drilling and permeation grouting equipment's which can control required pressure and is equipped with mixing tanks of defined grout volume. If required grout may also be inserted at required flow rate using the same equipment.

### TESTS

Required tests shall be conducted as per the application.

Field permeability tests, Geophysical tests, SPT / CPT / UCS tests



## GROUND ENGINEERS

Grouting had found its wide application in solving soil and foundations problems. Permeation grouting is widely used technique across the globe which may be adopted for various applications.

At SASGE we do have wide experience in doing permeation grouting work and other grouting techniques.

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