**GROUND IMPROVEMENT TECHNIQUES**

**ABSTRACT**

In a construction project, there are numerous foundation problems that are encountered during the execution phase. Soil in its natural form, at a construction site, is not always suitable to completely bear heavy structural loads. For such situations, the soil needs to be improved to enhance its bearing capacity and decrease the expected settlement. There are certain techniques for ground improvement which are often used to improve sub-soil properties in terms of their bearing capacity, shear strength, settlement characteristics, drainage, etc. These techniques have a wide range of applicability from coarse grained soils to fine grained soils. Depending upon the loading conditions and nature of soil, a suitable technique which is also economical needs to be adopted. This paper gives the overview and concept of recent major ground improvement techniques and discusses their practical applications.