

List of ground improvement technology

Technical Information on Land

Legend: ✓✓✓:Extremely ✓✓:Effective ✓:Depends on Ground Condition		APPLICABLE GROUND			IMPROVEMENT PURPOSE					
					INCREASE STRENGTH				SETTLEMENT PREVENTION	
PRINCIPLE OF IMPROVEMENT	NKC IMPROVEMENT METHOD	Sandy Soil	Cohesive Soil	Organic Soil	Increase Bearing Capacity	Stabilize Slip Circle	Prevent Liquefaction	Prevent Deformation	Promote Settlement	Reduce Settlement
COMPACTION, CONSOLIDATION & REINFORCEMENT	Sand Compaction Pile (SCP)	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓✓		✓✓	✓✓
	Screw Torsion Environmental Compaction Pile (STEP)	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓✓		✓✓	✓✓
COMPACTION	Soil Vibro Stabilising (SVS)	✓✓			✓✓		✓✓✓			✓
	Soil Vibro Tamping (SVT)	✓✓			✓✓		✓✓			✓
	Deep Vibro (DV)	✓✓			✓✓		✓✓✓			✓
CONSOLIDATION & DRAINAGE	Sand Drain (SD)		✓✓	✓✓	✓	✓			✓✓✓	
SOLID	Cement Deep Mixing (CDM)	✓✓	✓✓	✓✓	✓✓	✓✓✓	✓✓	✓✓		✓✓✓
	Cement Deep Mixing-LODIC (CDM-LODIC)	✓✓	✓✓	✓✓	✓✓	✓✓✓	✓✓	✓✓		✓✓✓
	Deep Cement Stabilization (DCS)	✓✓	✓✓	✓✓	✓✓	✓✓✓	✓✓	✓✓		✓✓✓

Technical Information at Sea

Legend: ✓✓✓:Extremely ✓✓:Effective ✓:Depends on Ground Condition		APPLICABLE GROUND			IMPROVEMENT PURPOSE					
					INCREASE STRENGTH				SETTLEMENT PREVENTION	
PRINCIPLE OF IMPROVEMENT	NKC IMPROVEMENT METHOD	Sandy Soil	Cohesive Soil	Organic Soil	Increase Bearing Capacity	Stabilize Slip Circle	Prevent Liquefaction	Prevent Deformation	Promote Settlement	Reduce Settlement
COMPACTION, CONSOLIDATION & REINFORCEMENT	Sand Compaction Pile (SCP)	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓✓		✓✓	✓✓
CONSOLIDATION & DRAINAGE	Sand Drain (SD)		✓✓	✓✓	✓	✓			✓✓✓	