KASETSART UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING,GEOTECHNICAL ENGINEERING LABORATORY

FIELD DENSITY TEST (SAND CONE METHOD)

For _____ Location _____

Project _____ Date _____

Soil Description _____ Compaction method _____

Tested by _____

Water Content

Test No.				
Weight of Wet Soil+Container	g			
Weight of Dry Soil+Container	g			
Weight of Water	g			
Weight of Container	g			
Weight of Dry Soil	g			
Water Content, w	%			

FIELD DENSITY DETERMINATION

Test No.				
Initial Weight of Jar + Sand	g			
Final Weight of Jar + Sand	g			
Total Weight of Sand Used	g			
Weight of Wet Soil + Container	g			
Weight of Container	g			
Weight of Wet Soil	g			

DENSITY

Weight of Sand in Cone	g			
Weight of Sand in Hole	g			
Density of Sand	g			
Volume of Test Hole	cm^3			
Wet Density	g/cm^3			
Dry Density	g/cm^3			

SAND CALIBRATION

Weight of Sand in Cone and Field Density Plate A

Initial Weight of Jar + Sand	g			
Final Weight of Jar + Sand	g			
Weight of Sand in Cone	g			
Average	g			

Sand Density

Weight of Mould + Sand	g			
Weight of Mould	g			
Weight of Sand	g			
Average	g			

Mould

Diameter , d	cm.			
Height , h	cm.			
Volume ,Vm	cm^3.			
Average	cm^3.			

Density of Sand	g/cm^3.	

Remarks: 1) Certification applies to test samples only.

2) Information under "For", "Project", are supplied by client. These are not certified.

3)This certificate is invalid without appropriate signature and seal.

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FIELD DENSITY TEST (RUBBER BALLOON METHOD)

For _____ Location _____

Project _____ Date _____

Soil Description _____ Compaction method _____

Tested by _____

Test No.		1		2		3		4	
Weight of Wet Soil+Container	g								
Weight of Dry Soil+Container	g								
Weight of Water	g								
Weight of Container	g								
Weight of Dry Soil	g								
Water Content, w	%								
Average Water Content, w	%								

Test No.		1	2	3	4
Weight of Wet Soil	g				
Final Reading	cc				
Initial Reading	cc				
Volume of Hole	cc				
Corrected Volume of Hole	cc				

Test No.		1	2	3	4
Wet Density , γ_t=W/V	g/cm^3.				
Dry Density,γ_d=100γ_t/(100+w)	g/cm^3.				
Percent Proctor Density %					

Compaction Data

Type	Modified
Test Reference Number	
Maximum Dry Density g/cm^3.	

Remarks: 1) Certification applies to test samples only.

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