

**SOIL MECHANIC LABORATORY**  
**FACULTY OF CIVIL ENGINEERING AND PLANING**  
**INDONESIAN ISLAMIC UNIVERSITY**  
**Jl. Kaliurang KM. 14,4 Telp. (0274) 895042 Yogyakarta 55584.**

UJI GESER LANGSUNG UU

Proyek : Tugas Akhir  
 Lokasi Tanah : Tembilahan, Riau  
 Kode sampel : Tanah Gambut + 10% Gypsum (Sampel 2)  
 Dikerjakan : Aldesra Azria Lisananda  
 Tanggal : 22 Mei 2018

Data Sampel	
Diameter (cm)	6
Luas (cm <sup>2</sup> )	28.27433
Tinggi (cm)	2
Volume (cm <sup>3</sup> )	56.54867
Berat cincin (gr)	49.41

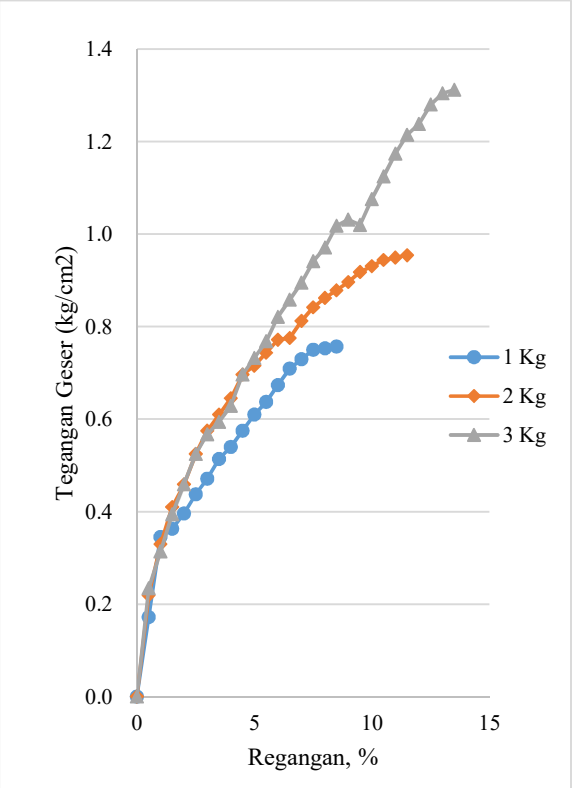
kalibrasi ring = 0.44 kg/div

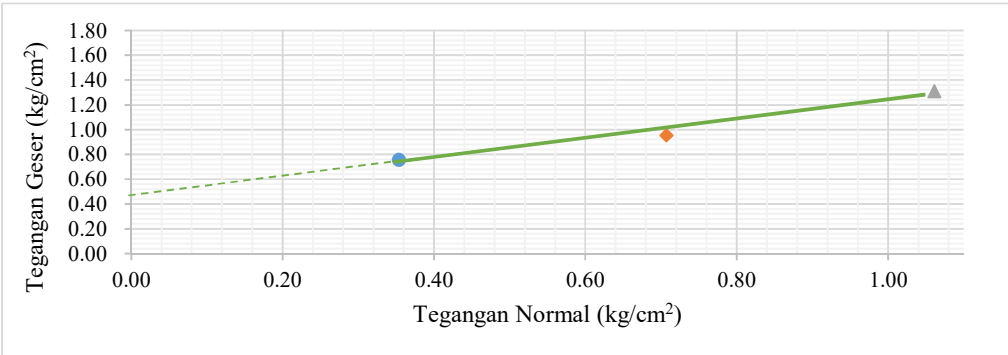
Kadar air			
Berat Cawan, gr	9.25	8.97	8.88
Berat Cawan + Tanah Basah, gr	16.27	17.95	17.89
Berat Cawan + Tanah Kering, gr	13.4	14.19	14.12
Kadar Air, %	69.157	72.0307	71.9466
Kadar Air Rata-rata, %	71.045		

Berat tanah + ring, gr	98.78	98.02	98.6
Berat volume (gr/cm <sup>3</sup> )	0.8731	0.85961	0.86987
Berat volume kering (gr/cm <sup>3</sup> )	0.5161	0.49969	0.5059


Tegangan Normal $\sigma_n$ (kg/cm <sup>2</sup> )	0.3537	0.70736	1.06103
Tegangan geser maks $\tau$ (kg/cm <sup>2</sup> )	0.757	0.95414	1.31163

Sudut geser $\phi$	38.0979	°
Kohesi	0.4797	kg/cm <sup>2</sup>






Mengetahui,  
 Kepala lab. Mekanika Tanah  
 Universitas Islam Indonesia



( Ir. Akhmad Marzuko, M.T. )

Yogyakarta, 13 Agustus 2018  
 Peneliti,



( Aldesra Azria Lisananda )