



**SOIL MECHANIC LABORATORY**  
**FACULTY OF CIVIL ENGINEERING AND PLANING**  
**INDONESIAN ISLAMIC UNIVERSITY**  
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**UJI GESER LANGSUNG UU**

Proyek : Tugas Akhir  
 Lokasi Tanah : Tembilahan, Riau  
 Kode sampel : Tanah Gambut + Portland Cement 7% + Gypsum 10% (Sampel 1)  
 Dikerjakan : Aldesra Azria Lisananda  
 Tanggal : 23 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)	43.07

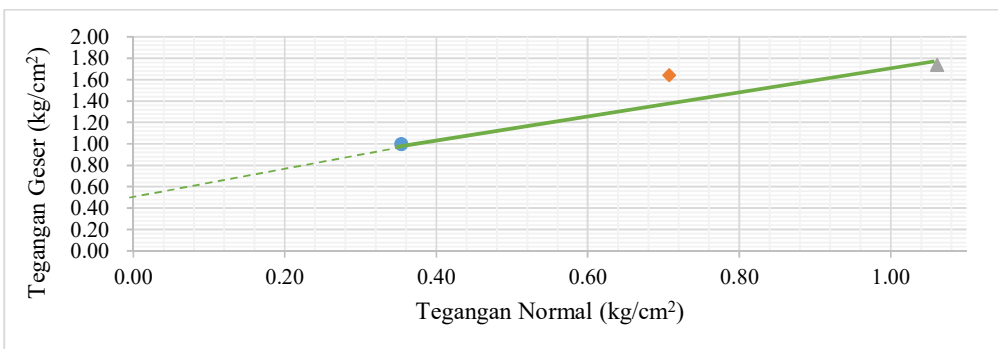
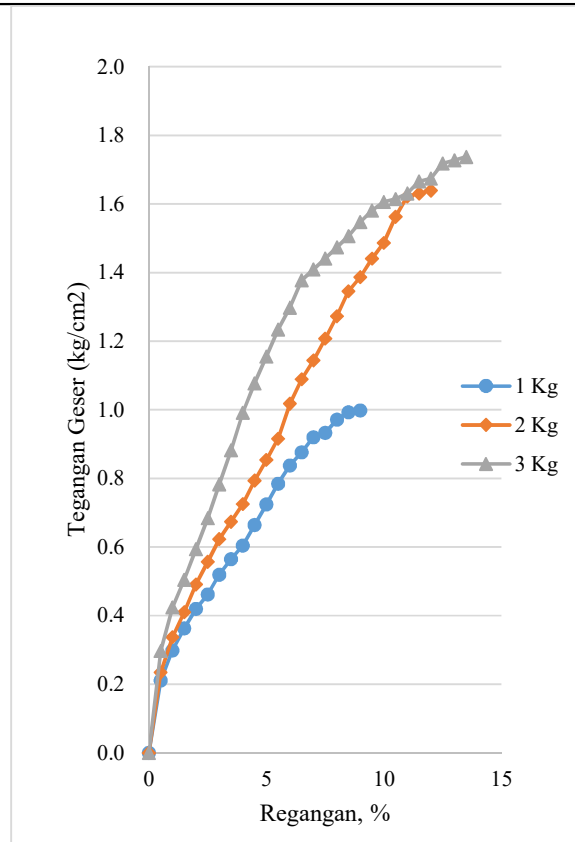
kalibrasi ring = 0.44 kg/div

Kadar air			
Berat Cawan, gr	5.6	8.82	13.49
Berat Cawan + Tanah Basah,gr	14.27	15.88	23.06
Berat Cawan + Tanah Kering, gr	10.72	13.07	19.14
Kadar Air, %	69.336	66.1176	69.3805
Kadar Air Rata-rata, %	68.278		

Berat tanah + ring, gr	90.85	90.2	90.58
Berat volume (gr/cm <sup>3</sup> )	0.8449	0.83344	0.84016
Berat volume kering (gr/cm <sup>3</sup> )	0.499	0.50172	0.49602

Tegangan Normal $\sigma_n$ (kg/cm <sup>2</sup> )	0.3537	0.70736	1.06103
Tegangan geser maks $\tau$ (kg/cm <sup>2</sup> )	0.9975	1.63937	1.73703

Sudut geser $\phi$	46.2724	°
Kohesi	0.6278	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)