

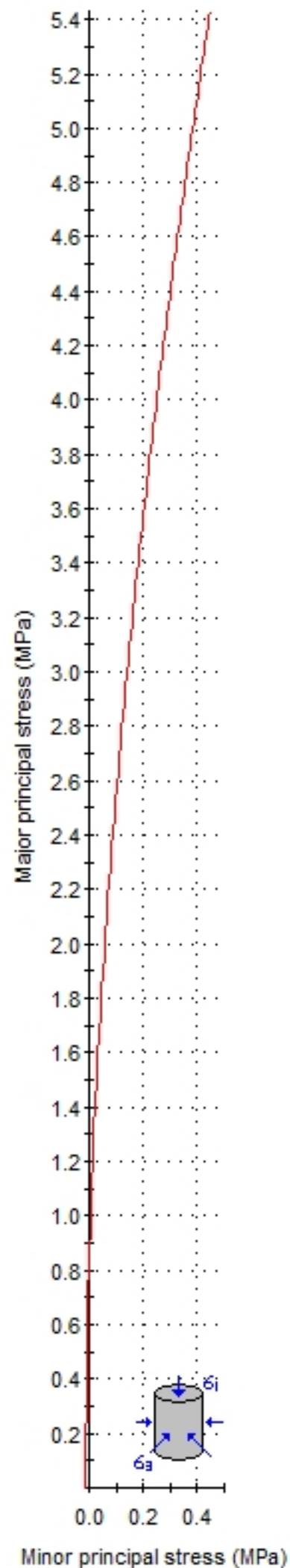
## დანართი - 3 RocLab-ის პროდუქტი

### Appendix – 3 RocLab Outputs

# ამისთვის კლასი IV

## for Class IV

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 25 MPa  
GSI = 45    $m_i$  = 20   Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 7500 MPa  
modulus ratio (MR) = 300

### Hoek-Brown Criterion

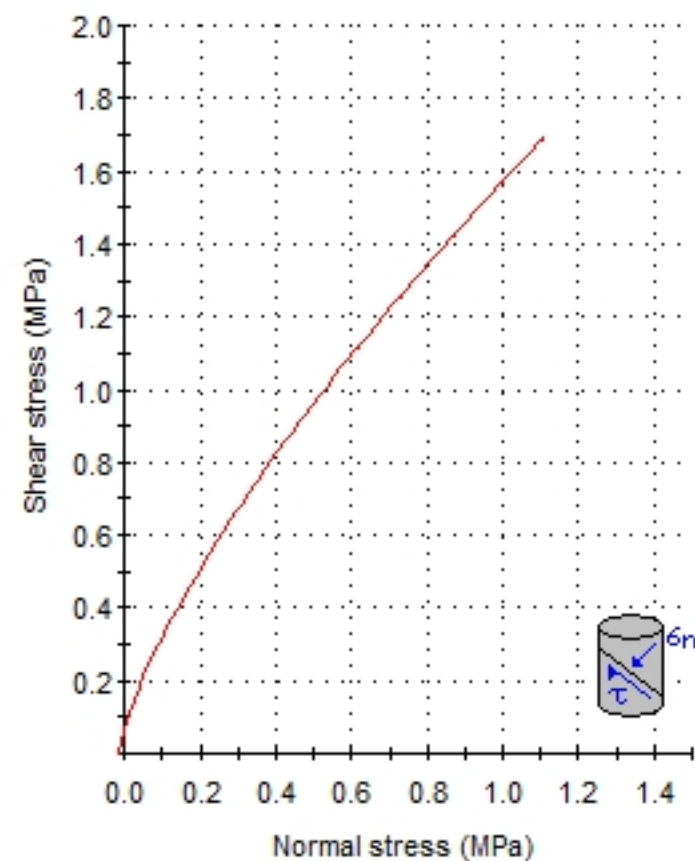
$m_b$  = 2.255    $s$  = 0.0014    $a$  = 0.508

### Mohr-Coulomb Fit

cohesion = 0.231 MPa   friction angle = 54.33 deg

### Rock Mass Parameters

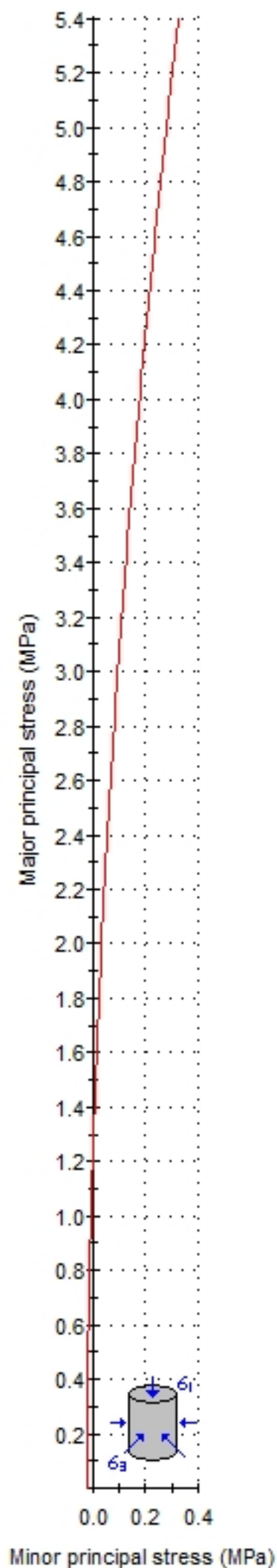
tensile strength = -0.016 MPa  
uniaxial compressive strength = 0.898 MPa  
global strength = 4.904 MPa  
deformation modulus = 1249.98 MPa



# ამისთვის კლასი V

## for Class V

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 35 MPa  
GSI = 45  $m_i$  = 20 Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 10500 MPa  
modulus ratio (MR) = 300

### Hoek-Brown Criterion

$m_b$  = 2.255  $s$  = 0.0014  $a$  = 0.508

### Mohr-Coulomb Fit

cohesion = 0.221 MPa friction angle = 58.74 deg

### Rock Mass Parameters

tensile strength = -0.022 MPa  
uniaxial compressive strength = 1.257 MPa  
global strength = 6.866 MPa  
deformation modulus = 1749.98 MPa

