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measuring or
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strengths of the
soils. Meaningful
analyses can be
performed only if
the shear strengths
used are
appropriate for the
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analyzed. Much has been learned about the shear strength of soils within the past 60

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reservoir area. Despite the abundance of studies on strength attenuation of rock-soil mass, few researchers have considered the time-dependent stability of landslide.

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Slope stability

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analysis is a static or dynamic, analytical or empirical method to evaluate the stability of earth and rock-fill dams, embankments, excavated slopes, and natural slopes in soil and rock. Slope stability refers to the condition of

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inclined soil or rock
slopes to withstand
or undergo
movement. The
stability condition
of slopes is a
subject of study
and research in soil
mechanics,
geotechnical
engineering and
engineering
geology. Analyses
are generally

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Normally
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It is theoretically
proven that, open
excavations in
ordinary
compacted soil
with vertical wall

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can stand without the need for any supports provided that the excavation wall height does not surpass critical height.

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Concurrently,
vegetation also
contributes to
mass stability by
increasing soil
shear strength
through root
reinforcement
(Gray, 1995). The

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frequency of slope failure tends to increase when trees are cut down and their roots decay. This gradual decay of interconnected root systems was the principal cause of increased slope failure (Abe, 1997).

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submerged density
and the effective
normal stress
should be used in
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along CD is - $\tau_f =$
 $\sigma_n \tan \phi' = \gamma' z \cos$
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