

**PROJECT :-
REMEDIAL WORK FOR A SLOPE FAILURE AT DAMANSARA HEIGHTS,
KUALA LUMPUR, 1998**

The slope failure occurred at Damansara Heights in November 1997 after heavy downpours. Two bungalows were affected. The foundation of one of the bungalows had been exposed after the failure. The residents of these two bungalows were evacuated immediately after the incident.

Soil investigation consisted of boreholes and Mackintosh Probes. The subsoil mainly consists of soft to medium stiff clayey soil. Hard soil layer was at about 13m to 17m below the ground surface. Ground water level was very near to the ground surface at the toe of the slope. A rubble wall located at the toe of the slope was originally designed to retain the slope. Analysis results indicated that the wall was unstable when the ground water level rise up. The slip of the slope was triggered once the wall had moved.

Several remedial measures had been considered. Reinforced soil wall was selected based on construction cost comparison and suitability study amongst a few alternatives.



The remedial works were commenced in mid 1998. Temporary retaining system using sheet piles was required during the excavation and construction of the wall at the toe of slope. After the reinforced soil wall had been constructed, the slope was reinstated. The whole remedial work was completed in early 1999.