



Retaining Wall for Road Reinforcement Project **CIPANAS, WEST JAVA - INDONESIA**

Client : Dinas Bina Marga
Consultant : PT Wiraguna
Contractor : PT Waskita Karya
Quantity : 7000 unit Gabions

General

The geographical position of Cipanas which lies surround by mountains in West Java have made the soil in this area very fertile. A lot of water sources also makes this area easy to failure.

Below the road in Cipanas, the soil was eroded by the change of water flow which getting nearest to embankment of the road. This condition in a short time has made a deep cave about 26m below the road.

This case has been handled by gabions retaining structure to retain road at Cipanas from failure which will be 26 m high for along approximately 20 m. Gabions was set in two ways, the first one has 16 m backward for about 16 m high and the second one only 4m (for backward) for about 10 m high. Behind the first set there are stones, but behind the gabions facing (second set) there are gravelly sand soil.

MACCAFERRI

INDONESIA



Cipanas Failure, March 10th 2005



Cipanas Project, March 18th 2005



Cipanas Project, April 6th 2005



Cipanas Project, April 30th 2005



Cipanas Project, May 19th 2005