

AUCHI GULLY EROSION WORKS
AUCHI, EDO STATE, NIGERIA

EROSION CONTROL

Product: Reno Mattress, Geotextile, Gabion

Auchi is located in Etsako—West Local Government Area of Edo State, Nigeria. It is one of the fastest growing cities in Nigeria with an average population of 152,652 people resident in the area.

Problem:

Due to poor and unsustainable land use, coupled with inadequate drainage systems, protective vegetative cover are gradually removed from the land leading to high run-off, thereby creating deep gullies measuring 100m in depth across a 10km stretch, creating devastating effect on settlements, major roads leading to adjacent cities and the lives of the inhabitants of Auchi.

This aggravated the community members who sought the help of the authorities in curbing the menace.

Solution:

The authorities responsible took data through various means and decided to tackle the menace in the following ways:

- The construction of proper drainage system channelled to safe discharge points downstream.
- Bioremediation which involves re-greening the environment to return the area to the environment's proper state.
- The use of Maccaferri Reno Mattress 6x2x0.3, Gabion 2x1x1 to reduce considerably the velocity of flow and migration of the soil components.



Gully before intervention



During Construction

Client:

THE WORLD BANK/FGN

Main contractor:

SETRACO NIGERIA LIMITED

Designer:

LORAJ CONSORTIUM

Products used:

GABIONS, RENO MATTRESS

Date of construction

ON-GOING

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