



ALLOTT (NIGERIA) LTD
..... Consulting Engineers

Azare- Gammayina Trunk Road in Northern Nigeria.

Client: Federal Ministry of Works Lagos- Nigeria.
Location: Bauchi State - Nigeria.
Date: 1981-82

The Federal Ministry of Works in Nigeria commissioned Allott (Nigeria) Ltd. to prepare the detailed design of a new trunk road to link the market town of Azare in Bauchi State to the town of Gammayina in Kano State. Services covered hydrological survey, site survey and detailed design.

The two towns are approximately 80km apart and an unsurfaced track existed for most of this distance, although this was impassable in the rainy season. The proposed road passed through tree and scrub savannah and there were a number of small villages along the route. In addition, two major rivers had to be bridged.

The line of the new road was chosen from a study of aerial photography and a ground reconnaissance. This was surveyed using conventional ground survey methods the main problem being obtaining access across the two main rivers during time of flood. From the information obtained the detailed design of the road was carried out using computer-aided techniques.

The soil along the line of the proposed road was predominantly fine sand and an extensive search, using multispectral satellite imagery as an aid, was carried out for alternative suitable road construction materials.

The proposed road had a two lane carriageway with a surface dressed wearing course, a concrete or bitumen stabilised base and a sand sub-base. The bridge over the River Jamaare is 350m long in 14 spans and the bridge over the River Katagum is 100m long in 4 spans and both have a prestressed, precast concrete deck supported on circular reinforced concrete columns and crossheads.

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