



Access for Sustainable Development



Project Name: Rural Access & Agricultural Marketing Project

Location: Ondo State Nigeria

Date: May 2018 to present

Client: Ondo State Government

Area: Ondo state borders Ekiti state to the north, Kogi State to the northeast, Edo State to the east, Delta State to the southeast, Ogun State to the southwest, and Osun State to the northwest.

The Ondo State Rural Access and Agricultural Marketing Project in the Owo Local Government Area of Ondo State.



Background: In the interest of improving roads in their rural communities the Ondo State Government, through Governor Akeredolu, has entered the World Bank assisted Rural Access Mobility Programme (RAMP), later renamed Rural Access and Agricultural Marketing Project (RAAMP) with the intention of creating farm to market access roads.

The objective of the Project is to bring about enhanced productive capacity and rapid development of Nigeria's rural areas and the improvement of the living standards of its dwellers, through the provision of improved and efficient rural transport infrastructure necessary for economic and social development.

Officials of SAO Capital, Mr. Temitope Runsewe and Mr. Ayo Sotinrin, Consultants to the State Government on the project, recommended the Engineered Base Stabilizer (EBS) provided by Soil Solutions as a viable alternative to the proposed asphalt overlay, which has proven to wash away during rainy seasons.

Sealing the surface with EBS will provide a sustainable solution with improved road surfaces that will be protected from erosion, UV and water resistant, require less maintenance, constructed in a more efficient and economically sensible manner and most importantly enable the farmers to get their produce to the market with ease



SAO
GROUP



ONDO STATE
GOVERNMENT

PROJECT REPORT

Project Description: An area of the Molege Road link to the Owo Township Road was selected to perform a demonstration with the Engineered Base Stabilizer (EBS) to show the advantages over the asphalt method.



Application: The existing surface was scarified, then shaped to provide proper drainage, compacted to a smooth finish then sealed with the EBS Soil Stabilizer using multiple coats until the point of refusal was reached. The EBS was allowed to penetrate then the road was opened for traffic.

Result: a re-constructed surface layer with a newly created wearing course with complete dust elimination, improved skid resistance, total preservation of fines and material, is non-slippery, water and UV resistant, free from the formation of potholes, rutting and corrugation, improved load bearing capacity, increased tensile strength and a reduced environmental impact.

THE EBS SURFACE SEALED ROAD SURFACE IS NEVER TO BE GRADED OR WATERED ... The objective of the EBS Surface Seal is to eliminate the requirement for any future watering or grading of the surface.

After 18 months (or when required) the surface may need a maintenance application of EBS at a reduced application rate.



Our experienced team and civil engineers at Soil Solutions® will assist with Value Engineered Design Improvements using a combination of technologies to deliver effective and efficient construction methodologies for economically viable Intelligent Roads Solution.

CONTACT SOIL SOLUTIONS TODAY FOR OUR SPECIFICALLY TAILORED SOLUTIONS FOR YOUR ROAD, RUNWAY OR RAIL PROJECT.

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Soil Solutions provides Value Engineered Solutions, which incorporate the latest technologies and an improved road surface using the innovative methodology developed by Soil Solutions completely eliminates the requirement for any further remedial works to the surface including grading, compacting and watering for dust mitigation purposes. Only an as and when required maintenance application is required at a reduced rate.

The EBS Surface Seal will provide for the following:

- Reduced amount of aggregate required for layer works
- Reduced budgets for construction and maintenance
- Significantly reduced water usage
- Maximum efficiency, reduced maintenance and expanded lifespan of the road surface
- Opportunity for job creation and skills transfer for product application and the development of a community-based maintenance programme

Additional benefits from the EBS Surface Sealed roads include:

Benefits of EBS Surface Sealed Gravel Roads

- ✓ Important and substantial cost savings for governments and municipalities in terms of Gravel Road Maintenance
- ✓ After an EBS Surface Seal, these Gravel Roads will NEVER need to be Graded or Compacted Again.
- ✓ The road will have a longer life and only requires spot maintenance every few years instead of major maintenance on a regular basis.
- ✓ The road surface will be protected from erosion and any material loss.
- ✓ There will be No dust and increased safety.
- ✓ This provides a valuable solution for governments and increasing service delivery – while decreasing costs to do so.
- ✓ This is also a perfect solution for Environmentally sensitive areas as this solution reduces Environmental Impact.

Soil Solutions is on a journey to make a difference through the implementation of alternative innovative technologies and methodologies to achieve results that provide sustainability and allow Governments and rural areas to improve their infrastructure in order to provide healthier, safer and economically and socially improved communities.

At Soil Solutions, we value the growth, pride and success that we experience with each and every project. From the beginning of our journey and as we continue to grow, we remain dedicated to making a difference in a positive way with every project and every client. This personalized hands-on and service orientated approach has allowed us to experience great satisfaction in our successes with what we have delivered to our clients.

Smarter, Safer, Increased Value, through value engineered solutions that lead to, improved safety, reduced maintenance, cost reduction, expanded lifespan and reduced environmental impact only provided by the leading innovator in intelligent road improvement technology:

Soil Solutions. *Consider it Solved.*

