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Introduction to the Lawate to Kibongoto Road



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➤ Objectives of Project

- Improve all year access to rural poor
- Local resource-based rural road improvement
- Identify cost effective community based methods of rural road construction
- Introduce previously trialled surfaces under SEACAP and other methods
- Extend the knowledge of rural road construction in Tanzania by constructing demonstration pavement sections



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➤ Project Benefits

- All year community access
- Alternative local-resource based low-cost durable surfacing
- Lessons from other countries appropriately applied to the local context.



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➤ Lawate to Kibongoto



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➤ Lawate to Kibongoto

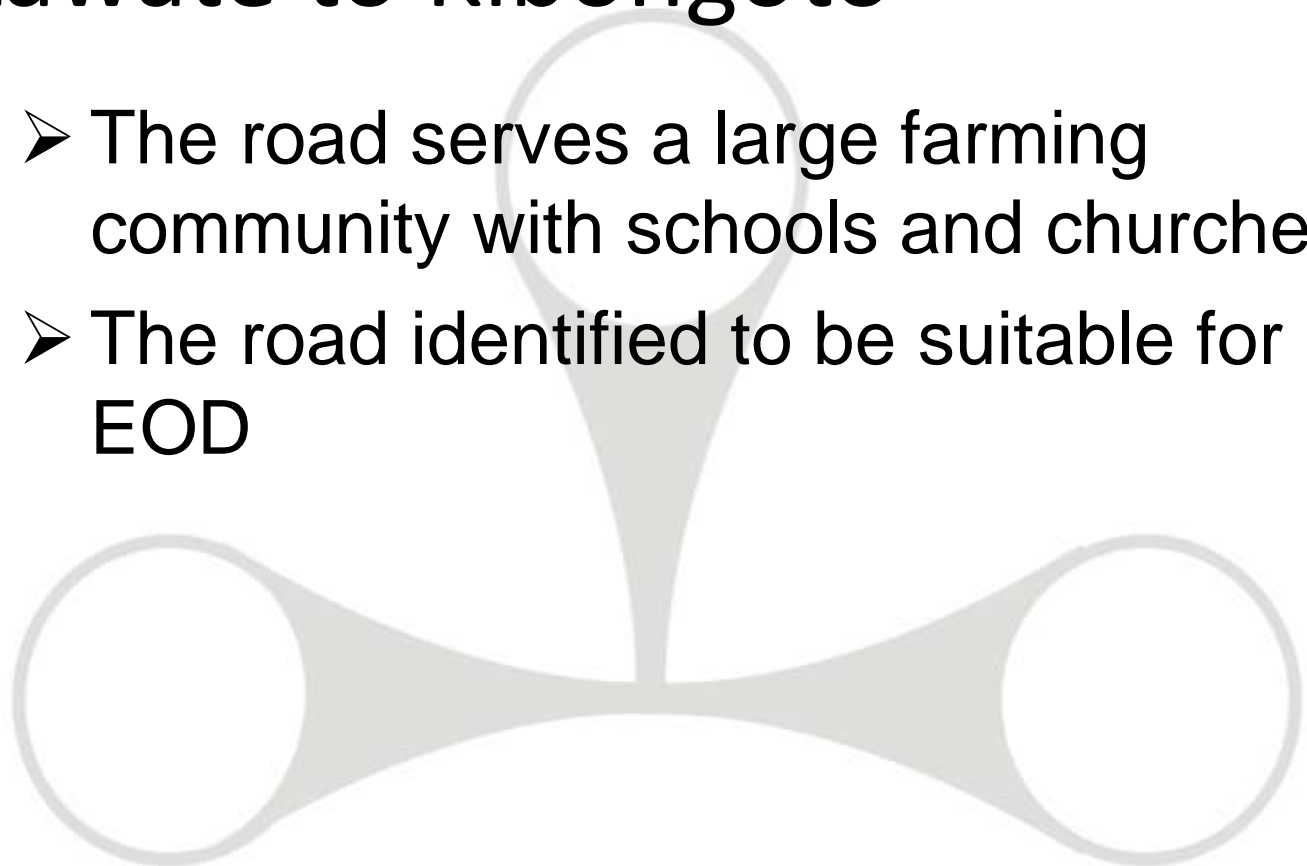
- Lawate to Kibongoto
- In the Kilimanjaro Region
- Located in the Siha District
- 13.6 km Long
- Steep/Winding
- Subgrade – Silty/ Clayey Soil
- Cool/Wet climate
- Pavement – Volcanic Gravel on 30% of the Length



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➤ Lawate to Kibongoto

- The road serves a large farming community with schools and churches
- The road identified to be suitable for EOD



➤ Villages - Lawate



0



➤ School in Kyengia



11.5



➤ Farmland



1.0



➤ Farmland



13.5



➤ Good Sections



0.5



➤ Good Sections



11.5



➤ Good Sections



13.5



➤ Problematic Sections



1.4



➤ Problematic Sections



12.7



➤ Problematic Sections



13.0



➤ Problematic Sections



13.0



➤ Sharp Bend



1.5



➤ Steep Section



2.0



➤ Steep/Sharp Bend



2.3



➤ Poor Drainage



2.5



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- Trial Sections
 - Double Otta Seal
 - Penetration Macadam
 - Double Surface Dressing
 - Unreinforced Concrete Slabs
 - Lightly Reinforced Concrete Slabs
 - Concrete Geocells
 - Concrete Strips
 - Concrete Paving Blocks



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| Environmentally Optimised Design (Lawate to Kibong'oto) | | |
|--|-------------|------------|
| Surface | Length (km) | Length (%) |
| Engineered Natural Surface (Good) | 1.6 | 12 |
| Gravel Wearing Course (Standard) | 4.1 | 30 |
| Paved Surface (Problematic) | 7.8 | 58 |



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➤ Project Status

- Work began in the second week of October 2011
- Expected to take 8 months and finish in May
- Might be some delays due to the rainy season
- Currently the contractor is surveying, clearing and grading the road

