



TERMS OF REFERENCE

FOR

DEMONSTRATIONS AND PRESENTATION OF PROPOSALS FOR ALTERNATIVE METHODS OF SURFACING

1. BACKGROUND:

The maintenance of gravel roads is an essential function, particularly that these roads form the backbone of the local land transportation system. Winnie Madikizela Mandela Local Municipality held a strategic planning in February 2023 and decided to do research on economical and effective alternative methods of surfacing with a long lifespan. Weather patterns have changed due to Global Warming and the municipality has experienced the following challenges:

- a) Natural borrow pit qualities are poor.
- b) Very low plasticity index.
- c) Haul distances are very long.
- d) Rainfalls are very high.
- e) Steep longitudinal gradients.
- f) Adequate maintenance cannot be provided due to financial constraints.
- g) Subgrade is weak or soaked due to large swampy areas and high risk of flooding.
- h) Limited materials production and testing facilities

2. AIM:

IDENTIFY MOST SUITABLE ALTERNATIVE SURFACING AND PARTICLE BINDING PRODUCTS FOR USE WITHIN WINNIE MADIKIZELA MANDELA LOCAL MUNICIPALITY

- a) To improve riding surface for vehicle, pedestrians, bicyclists and other non-motorized traffic
- b) To provide all-weather surface that ensures access at all times.
- c) Protects the base and sub-grade.
- d) A larger variety of vehicles must be able to use the road.
- e) To increase transport efficiency and reduce travel time.
- f) To reduce maintenance cost.

3. MINIMUM REQUIREMENTS:

1. Materials and technologies must be locally available, appropriate and have been applied within South Africa.
2. The formation and alignment of the road must be commensurate with the terrain and weather conditions of Winnie Madikizela Mandela Local Municipality.
3. Pavement type must be consistent and sustainable in the future.
4. Environmentally friendly or with minimum environmentally impact.

4. DELIVERABLES

- Presentation of technically proven, effective, sustainable and affordable South African Product that is SABS Approved.
- Provision of a list of installation areas and client contact details for completed projects that can be visited during due diligence for product verification and site inspection.

5. EXPECTED OUTCOME.

- The service provider is expected to comply with the above terms of reference.

6. COMPULSORY REQUIREMENTS

- Product must be registered with South Africa Bureau of Standards
- A letter of appointment by previous clients with traceable references
- Product specification by manufacturer is a mandatory document

- Presentation must cover capital costing, return on investment, operations and maintenance requirements, life span, training and upskilling requirements for municipal personnel to enable product use, resource requirements, etc.

7. DISCLAIMER

- The municipality accepts no liability in entering into a contracting agreement with any of the interested parties. Proceeding into a bidding process remains at the sole discretion of the municipality and it remains the prerogative of the interested party to comply with copyright and trademarking requirements as legislated.