



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 environmental 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.