



NKANGALA DISTRICT MUNICIPALITY



APPOINTMENT FOR THE PANEL OF LAND SURVEYORS CONSULTING: 3 YEAR TERM (2023/24, 2024/25 AND 2025/26) FOR THE IMPLEMENTATION OF VARIOUS CAPITAL PROJECTS

SCOPE OF WORK

PURPOSE

Nkangala District Municipality intends to appoint a panel of land surveyors consulting in Nkangala District Municipality for a 3 year term (2023/24, 2024/25 and 2025/26) for the implementation of various capital projects.

DETAILED SPECIFICATION

The duties to be performed by the Land Surveyors Consulting are to survey and provide normal services and or additional services for the execution of the project. All cadastral surveys are conducted by Professional Land Surveyors registered with the South African Geomatics Council (SAGC).

Consulting Land Surveyors will be required to:

Projects	Services
1. Topographic Survey	<ul style="list-style-type: none">Conducting strip surveys of roads, sewer and water reticulation for the purpose of engineering designsDetailed base mapping for layout design purposes, etc.
2. Relocation of Pegs	<ul style="list-style-type: none">Replacement of pegs on existing townships or farms
3. Contour Survey	<ul style="list-style-type: none">Conducting strip surveys of road, sewer and water reticulation for the purpose of engineering design.



4. Small Scale Diagram	<ul style="list-style-type: none"> • Subdivision and consolidation of an outside figure of a township
5. Engineering Survey	<ul style="list-style-type: none"> • Setting out of building structures, roads, pipelines etc. • Volumetric surveys • Fixing Ground control, etc.
6. Township Pegging	<ul style="list-style-type: none"> • Pegging of new township erf boundaries for a purpose of producing a general plan
7. Subdivision of Erven/farm	<ul style="list-style-type: none"> • Subdividing existing stands or farms into two or more portions
8. In-situ/ De facto survey	<ul style="list-style-type: none"> • Surveying and formalising of informal settlements
9. Consolidations	<ul style="list-style-type: none"> • Combining two or more adjacent ervens or farm portions into one property

Understanding the scope of work:

- Cadastral Survey.
- Framing of general plans/diagrams in accordance with the Land Survey Act 8 of 1997.
- Lodgement of general plans/diagrams and records for approval, (in accordance with the Land Survey Act 8 of 1997), with the Surveyor General.
- Establish and accurately fix survey stations to be used for the cadastral boundaries setting out;
- Calculate the property boundaries
- Pegging of all properties/servitudes in terms of approved layout plans
- Prepare and submit General Plans to the Surveyor General for approval.

PROJECT METHODOLOGY

STEP 1: Obtaining data from the Surveyor General and calculations

Obtaining approved relevant information (Farm Diagrams, General Plans, and Servitude Diagrams etc.) from the Surveyor General. Do all the necessary preparations and calculations for field work.

STEP 2: Control and Contour Maps



Establishing survey control on site using Trigonometrical beacons. These survey stations will be accurately fixed and will be used for the ground control for the pegging of the sites. All survey work will be conducted in terms of Land Survey Act 8 of 1997. Lidar Survey will be used for spot shots and conventional survey will be used for mapping the existing infrastructure such as electric poles, roads, pipe for sewer and water, or structures of historical importance and significance

STEP 3: Relocation of beacons

Existing SG data will be used to reconstruct and relocate existing beacons. The found beacons will be used to reconstruct the cadastral boundaries.

STEP 4: Pegging of Sites

All survey work will be supervised by a Professional Land Surveyor and conducted in terms of the Land Survey Act 8 of 1997. All placed beacons (12mm steel iron peg according to regulations) will be indicated to the relevant representatives from the Human Settlement and the community. The pegs will be marked with paint.

STEP 5: Draughting and Surveyor General Submission

All General Plans and Diagrams will be framed and submitted to the office of the Surveyor General for approval. This includes all survey records and certification documents.

STEP 6: Approvals of General Plan

Approval time needed for Surveyor General's office