



KAI !GARIB MUNICIPALITY

TECHNICAL REPORT

NEW CEMETRY LENNERTSVILLE

Prepared for:

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JUNE 2011

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1. BACKGROUND

Lennertsville is located approximately 15 km from Keimoes within the jurisdictional area of Kai !Garib municipality with Kakamas as the main centre of the municipality. The existing cemetery at Lennertsville is located to the north of the town. This existing cemetery is located within the way of a storm water runoff channel and is therefore prone to flooding. This existing cemetery is also approximately 95% full and is reaching its capacity.

Kai !Garib municipality applied for funding from MIG program to conduct a feasibility study for the development of a new cemetery for Lennertsville. This application was approved and a service provider was appointed to conduct the feasibility study for a new cemetery for Lennertsville. The main outcome of this feasibility study was to identify the most suitable and cost-effective cemetery site for use by the residents of Lennertsville.

2. INTRODUCTION

Kai !Garib municipality appointed Stabilis Development to assist them with the compiling of the relevant MIG applications, including the technical reports required by the MIG office and to conduct the feasibility study after registration of the project. The outcome and recommendations of the feasibility study will lead to the application for capital funding by the MIG program to develop a cemetery for Lennertsville. Approximately 150 new stands are in planning for this town.

This project was identified as a priority at a ordinary council meeting held on **26 November 2009** to prioritize the MIG projects of Kai !Garib Municipality. The minutes of this meeting and the approved IDP is attached as part of this report as supportive documents to the MIG application.

The IDP number of this project is 40.

2.1 PURPOSE OF TECHNICAL REPORT

This purpose of this technical report is to:

- Briefly describe the outcome of the feasibility study and,
- Scope of the proposed new project, the development of a new cemetery for the community at Lennertsville.

2.2 OUTCOME OF FEASIBILITY STUDY

The feasibility study mainly entails the following:

- Status Quo of existing cemetery at Lennertsville,
- Identify new suitable land for a new cemetery
- Determine needs of new cemetery
- Rezoning and sub-division of site for new cemetery-if required
- Conduct Environmental Assessment for new cemetery and submit project registration documents at the local offices of Department of Environmental Affairs and Tourism,
- Determine suitability of soil conditions for new cemetery,
- Estimated capital, operational and maintenance costs for the new cemetery,

- Submit feasibility study to Kai !Garib municipality
- Compile MIG application for funding of the new cemetery project to the MIG office.

The outcomes of the feasibility study are as follows:

- **Status Quo**

The existing cemetery is located to the north of the town. This existing cemetery is located within the way of concentrated storm water runoff and is therefore prone to flooding during heavy rain storms.

The existing cemetery is also approximately 95 % full and a new cemetery needs to be developed for the community of Lennertsville.

- **Identification of Land**

Suitable land for a new cemetery was identified on land that was sold to the municipality, plot 173/34 southwest of the existing town of Lennertville. This land was sold to the municipality by J Hanekom and the title deed for transfer of the land to the municipality is in the process of compilation.

The site on this land is currently vacant and is within walking distance from the town of Lennertsville.

- **Suitability of site**

Profiles from test holes indicated that the soil conditions are suitable for a cemetery and services required at the site are available. Only water is available as Lennertsville does not have a sewer network.

- **Zoning requirements**

The existing land is currently zoned as agricultural and therefore a rezoning and sub-division application was required. This rezoning and sub-division application for the site was compiled and submitted to Kai !Garib Municipality in terms of Act 7 of 1997.

- **Environmental Assessment**

In terms of the regulations of NEMA, the land use constitutes a listed activity in terms of the regulations and authorization from the Department of Environmental Affairs and Tourism is required. A Basic Assessment for an Environmental assessment was compiled and submitted to the office of the said Department for adjudication.

Currently, the decision of this Department is still outstanding. Any further actions regarding the EIA process will depend on the outcome of the project registration at the Department.

- **Needs Assessment**

According to the register kept by the official at the municipal pay-point, the average burials are approximately 20 per annum. The official also indicated that this figure is most probably not correct as many families did not register the burials at the municipality.

An official count of the graves at the existing cemetery at Lennertville on 21 April 2010 revealed that the graveyard has 1821 graves and that 21 new burials have been registered for 2011.

The new proposed cemetery can accommodate a total of 4 465 graves, 3 484 adult graves and 981 for children. Due to the geological formation at the site, it is recommended that the graves be pre-excavated and backfilled. This will enable the community to do the hand excavation for the graves by hand in a much easier way.

The following infrastructure is required at the new proposed cemetery:

- Water supply to the site by means of a 75 mm diameter line and an approximate length of 225 meters,
- Sanitation can be provided by means of a conservancy tank
- A store room of approximately 16m² for storing hand tools, etc.
- An ablution facility, male/female, of approximately 16m² in total
- A fence on the perimeter of the site as per the requirements of Kai !Garib municipality
- The pre-excavation of the graves
- Gravel roads on the cemetery site, of 5 meter and 2 meter width respectively.
- Pegging of the site by a registered Land Surveyor as soon as the rezoning and sub-division is approved.

The proposed layout of the cemetery is shown on drawing SK 2139/2 attached to this report.

2.3 PROJECT OBJECTIVES

The main objectives of this proposed project are the following:

- To develop a new cemetery for the community at Lennertsville.
- The proposed new cemetery to be serviced with the necessary infrastructure to accommodate the needs of the community and to ensure a fully operational cemetery,
- Involve the relevant Community in the implementation of the project.
- Conduct any further actions, if required, by the Department of Environmental Affairs

2.4 PROJECT OUTCOMES

The expected outcomes for the project are the following:

- New proposed cemetery for the community at Lennertsville developed and in operation.
- The operation of the new cemetery includes the registration of burials as per the register held at Kai !Garib Municipality,
- Maintenance of the infrastructure at the cemetery and the appointment of a caretaker at the cemetery.

3. PROPOSED PROJECT

3.1 PROJECT NAME : **KAI !GARIB: NEW CEMETERY FOR LENNERTSVILLE**

The proposed project mainly entails the development of a new cemetery for Lennertsville.

3.2 LOCATION

The location of the proposed project is in the Kai !Garib Municipal area at the town of Lennertsville– see attached map.

3.3 GIS REFERENCE

District: Siyanda
Nearest town: Kakamas

Lennertsville

Longitude: 28° 45' 40,6"
Latitude: 20° 32' 01,2"

3.4 PURPOSE OF PROJECT BUSINESS PLAN

The main purpose of this technical report is to support the MIG application for funding of this proposed project and to briefly describe the proposed project and the processes to be followed for implementation.

4. PROJECT BENEFICIARIES

4.1 BACKGROUND

The existing cemetery at Lennertsville was damaged flooding during the rainy seasons and also reached its capacity and therefore needs to be upgraded.

4.2 BENEFICIARIES

The beneficiaries of this project are mainly the residents of Lennertsville. The new site will also serve the informal settlements in the area. The town of Lennertsville has a total population of 1 051 households with approximately 5 members per household, according to the 2007 household survey- STATSA.

5 SCOPE OF THE WORKS

The proposed project will include the following project elements to ensure that the required outcomes will be met:

5.1 BRIEF DESCRIPTION OF PROJECT.

The proposed project comprise of the following main elements:

- Pegging of site by a registered Land Surveyor as soon as the rezoning and sub-division is approved.
- Detail planning and design of infrastructure and compilation of the necessary drawings and tender documentation
- Appointment of suitable contractor to construct the required infrastructure
- Operation and maintenance of the developed cemetery.

5.2 IMPLEMENTATION AGENT

Kai !Garib Municipality will be the Implementing Agency and the responsible agent.

- Contact person: Mr AJP Wells
Head : Technical Services
- Address: Kai !Garib Municipality
Private Bag X 6
KAKAMAS
8870
- Telephone number: 054- 461 6400
- Fax number 054- 516 9066

5.3 FUNDING PLAN

All funds must be made available to the Municipal Manager, Kai Garib Municipality who will, in accordance with Standard Procedures, take responsibility for the administration of all funds. Application for funding of this project will be submitted to the MIG office, Department of Local Government and Housing, Northern Cape.

5.4 BUDGET PROPOSAL

The preliminary budget for the proposed project in the municipal area is as follows:

5.5 ESTIMATED PROJECT COST:

The estimated project cost is the following as per Annexure A:

a)	Capital Costs -	R 1 651 303.00
b)	Professional Fees & Expenses	R 266 413.00
	Sub Total A	R 1 917 716.00
	10% Contingencies	R 191 771.00
	Sub Total B	R 2 109 487.00
	14 % VAT	R 295 328.00
	TOTAL ESTIMATED PROJECT AMOUNT	R 2 404 815.00

5.6 OPERATIONS AND MAINTENANCE

The operations and maintenance of the project after completion is the responsibility of Kai !Garib Municipality.

5.7 TRAINING

The training of the officials required for the operation of this facility will be arranged internally and will mainly focus on the registration process of burials and the operation of the facility on the site.

C.J Botha Pr Eng
Stabilis Development (Pty) Ltd

27 June 2011

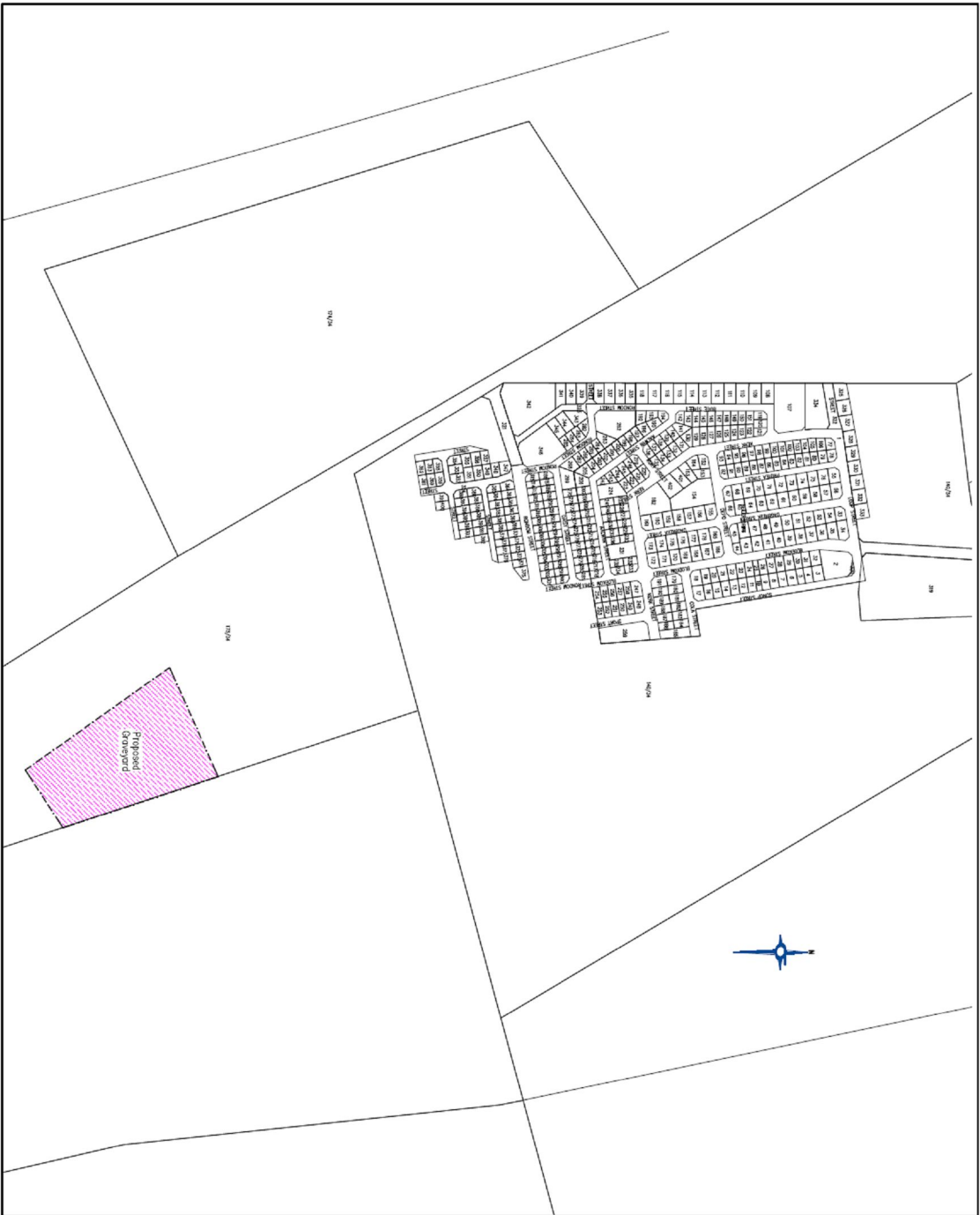
Municipal Manager
Kai !Garib Municipality

ANNEXURE A

Kai !Garib Municipality : Cemetery Lennertsville: Estimated Costs

ITEM	UNIT	RATE	LENNERTSVILLE	
			QTY	AMOUNT
1. Toilets	m ²	3 000.00	16	48 000.00
2. Store room	m ²	1 800.00	16	28 800.00
3. Sanitation : Conservancy tank & connection	No	50 000.00	1	50 000.00
4. Water supply: Connection to network	No	10 000.00	1	10 000.00
5. Water supply : connector pipe line	m	250.00	225	56 250.00
5. New fencing	m	106.00	758	80 348.00
6. Site clearance	Ha	15 000.00	3.25	48 750.00
7. Gravel roads - 5 meter wide	m ²	60.00	2 520	151 200.00
8. Gravel roads - 2 meter wide	m ²	60.00	2 740	164 400.00
9. Excavation abd backfilling of graves	No	227.00	4 465	1 013 555.00
Estimated Total : Capital				1 651 303.00
10. Engineering fees				206 413.00
11. Land surveyor				35 000.00
12. Expenses : Surveys, documentation & travelling				25 000.00
Estimated Total : Indirect Costs				266 413.00
Total Estimated Costs				1 917 716.00
Contingencies @ 10 %				191 771.60
Estimated total - Excluding VAT				2 109 487.60
Estimated total - Including VAT				2 404 815.86

ANNEXURE B
LAYOUT DRAWINGS



NOTES / NOTES

DATE	NO.	DESCRIPTION	BY

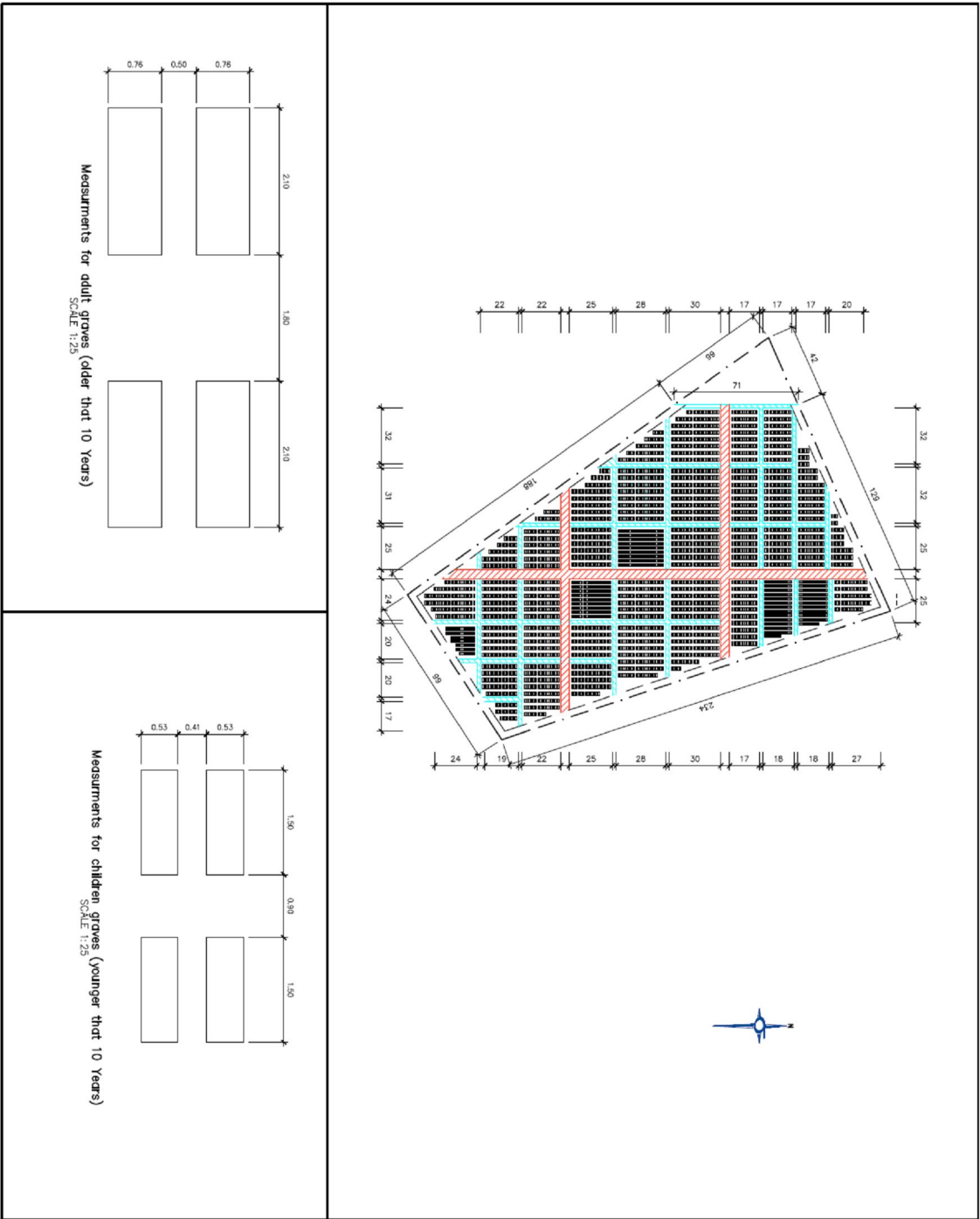
PROJECT / CLIENT
KPA GARIB MUNICIPALITY

PROJECT / SERVICE
**LEWISTVILLE
 NEW BRANDBO**

TITLE / TITLE
LOCALITY PLAN

TRACING NO. / DRAWING NO.
SK2139/1

SCALE / SCALE	1 : 1 500	DATE	15 Nov 2011
USER NO. / USER NO.		PROJECT	
DATE	15 Nov 2011	PROJECT	
SCALE		PROJECT	



NOTES / NOTES

DATE	NO.	REVISIONS	REVISIONS
15/01/2011	01	ISSUED FOR PERMIT	ISSUED FOR PERMIT
15/01/2011	02	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS

CLIENT / CLIENT

KAI CARIBBE MUNICIPALITY



ENGINEER / ENGINEER

LENNERTSMALE

NEW GRANVARD

TITLE / TITLE

PARK LAYOUT

TECHNICAL NO. / DRAWING NO.

SK2139/2

SCALE / SCALE	4:5 SHOWN	PROJECT	E Park
DATE / DATE	JAN 2011	PROJECT	NEW GRANVARD