



UGU DISTRICT MUNICIPALITY

PROJECT PROFILE

MABHELENI EAST WATER SUPPLY

CONTRACT No: UGU-07-1578-2021

August 2023

COMPILED BY:



WNA Consulting
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ON BEHALF OF:



UGU DISTRICT MUNICIPALITY
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PROJECT BACKGROUND

The community of ward 12 Mabheleni East have not had access to potable water. In an effort to address the issue, Ugu District Appointed Macala Fuze Development to design and construct the Mabheleni East project.

The project was designed to supply 75 litres per person per day with water dispensed at standpipes. The project entails construction of boreholes, storage tank and 9km reticulation network. The source of water for the project is Boreholes, this is a short-term plan as UGU District Municipality is still planning a long-term solution.

Ugu District Municipality is the Water Services Authority (WSA) and Water Services Provider (WSP).

CONTRACT DATA

Employer	UGU District Municipality
Engineers	WNA Consulting (PTY) LTD
Contractor	Macala Fuze Development
Description	Construction of Mabheleni 75/32mm Diameter HDPE Reticulation Network
Award Value	R6 634 949.65
Contract Value Including VO	R7 587 949.65
Contractual Commencement Date	02 February 2022
Contractual Completion Date	02 June 2022
Revised Completion Date	25 November 2022
Status of Project	The project is at practical completion
Duration	5 months

SCOPE OF WORK

Under this contract, the following activities are to be done:

Professional Services

- Project Design
- Conduct Geo-hydrological Investigations
- Conduct yield and water quality tests

Construction

- Site clearing along pipeline route (9km),
- Construct by trenching, bedding and backfilling for 75/32 mm diameter HDPE reticulation pipelines complete with **65** standpipes to serve the area of Mabheleni (9km),
- Laying, jointing and testing of all pipes, valves and fittings (9km),
- Disconnection and reconnection onto existing mains,
- Construction of 2No. Boreholes,
- Completion of previous work (Installation of Reservoir, Standpipes, rising main and borehole)
- Testing and disinfection of water mains

BENEFICIAIRES

The beneficiaries will be within the areas covered by the scope of work. The beneficiaries based on the area supplied by the scheme.

Ward	Area	Beneficiaries
12	Mabheleni	4 630 People

PROGRESS OF WORK

Item N°	Activity Description	% Weight	Scheduled Work Done			Overall Progress
			Billed Qty	Total Work Done	% Progress	
1	Establishment	5	5	5	100%	5
2	Clearing	5	9500	9500	100%	5
2	Excavation	5	9500	9 500	100%	5
3	Bedding	5	9500	9 500	100%	5
4	Pipe laying					
4.1	75mm Diameter	8	2000	2000	100%	8
4.1	63mm Diameter	8	600	600	100%	8
4.2	50mm Diameter	8	2900	3000	100%	8
4.4	32mm Diameter	8	4399	4399	100%	8
4.5	25mm Diameter	2	200	200	100%	2
5	Backfilling	5	9500	9 500	100%	5
6	Reservoir	12	2	2	100%	12
7	Standpipes, Valves & Chambers	4	65	65	100%	4
8	Electrical Connection	2	2	2	100%	2
9	Boreholes	7	2	2	100%	7
11	Commissioning, Testing and Handover	7	4	3	75%	5.25
12	Chlorine Dispenser	1	2	2	50%	1
13	Paving of Access Roads	1	2	2	50%	1
14	Fencing	6	3	3	100%	6
15	Gabions	1	2	1.9	95%	0.95
	Total					98.65%

COMMENTS

The project is practically complete, commissioning has not been concluded as the contractor is still attending to snags issued in January 2023.

Commissioning and Handover to the client will be conducted when the contractor has completed all the snags.

CHALLENGES

The contractor is struggling to complete the project as snags issued in January 2023 are still incomplete.

STAKEHOLDERS

The Project Team consists of the following stakeholders:

Funder	: MIG
Water Services Authority	: UGU District Municipality
Project Steering Committee	: Ward Councilor, Ward Committee
Contractor	: Macala-Fuze Development
Sub-consultant	WNA Consulting (PTY) LTD

Project Pictures



Construction of SBS Reservoir



Complete SBS Reservoir



Borehole Construction



Complete Borehole



Stand-Pipe



Stand-Pipe