

1. Permanent and remedial action

Resuscitating the damaged, cracked, and dilapidated underground storage water tank due to ageing and trees that collapsed the boundary walls integrity and caused the major disruptions and damages to the tanks

The assessment was conducted, and the proposal outcome was to rebuild the storage tanks and the following is required:

- Site management for temporary plant works must be established
- Project plan and methodology with estimate timelines
- Cleaning, temporary water and electricity
- Machinery and plant hire
- Alterations and demolitions
- Excavate backward for working space to expose brick wall for demolishing
- Demolishing of concrete slabs
- Shuttering and propping up soffits of concrete slab
- Removal of existing pipes
- Remove existing DB board and decommissioning of electrical cabling
- Removal of rubble and removal of existing concrete channels
- Re-installation plan and methodology
- Reinforce concrete for the tank walls and slabs
- 150mm steel reinforcement all round as per SANS 10100
- Civil works as per design tank dimensions and requirements
- Pumps and motors and control panel as per tank requirements and lab specs needs, supply, install and commission the complete pump-set
- Two-off 4kw, 3/380V motor (4pole) and 360NB40- CCM100
- Re-installation of all plumbing works piping and valves
- Restore the area and commission the works and supply the CoC
- Data packs and OEM manuals and commission results
- Project closure report
- Pipe sizes 80m x 80mm (Galvanised pipe) and pipe connections
- Plastic pipe 60m x 50mm (Plastic pipe) and pipe connections
- Plastic welder
- Concrete Test cube for testing purpose (32Mpa)
- 5m Tank depth is approximately
- Control site depth is 4m deep
- Float with medium controls and high maximum level control

2. SCOPE OF WORK

The service providers are required to supply a plan that shall outline the cost and bill of material to repair, resuscitate and remedy the identified risks crack / leaks

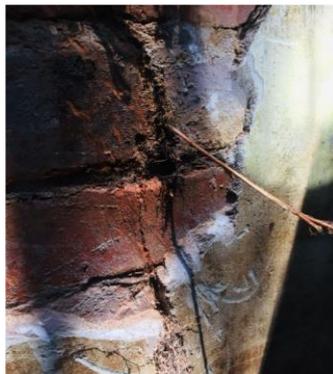
NB: The recommended proposal shall be deemed final once it is accepted and approved by SABS.

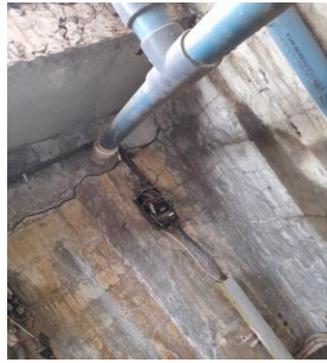
3. WORK SPECIFICATIONS

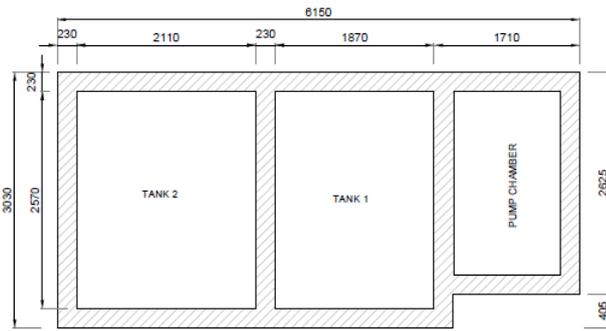
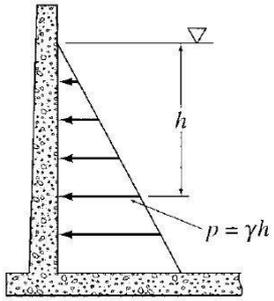
The are no limitations in the choices of devices/equipment/material to be used,

- The service provider shall endeavor to utilize modern technology to obtain quality results in accordance with SABS standards.
- The service provider shall be able to perform the inspection and risk assessment with minimal interruptions to the laboratory.
- Safety file with fall protection plan to be supplied at the start of the contract
- The service provider shall submit all information, assessments, pictures taken during and after the works and provide a close out report of all work undertaken.

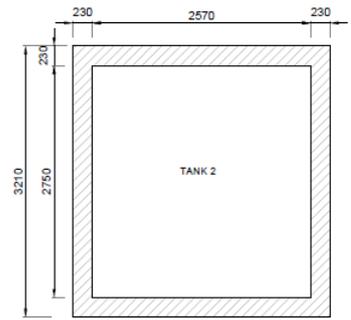
4. PICTURES AND PLANS



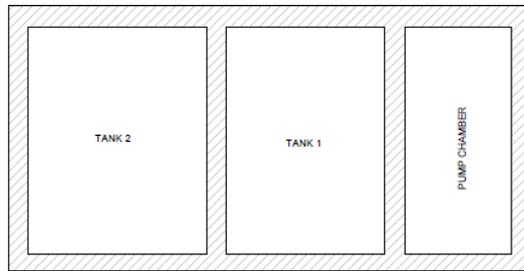




PLAN VIEW



LEFT SIDE VIEW



ELEVATION VIEW

WATER STORAGE TANK						
Construction of Water Storage Tank						
			Unit	Qty	Rate	Amount
						R c
1	PRELIMINARIES AND GENERAL					
1,1,1	Site Representatives and Management (Time)		Item	1		
1,1,2	Temporary works and plant (Time)		Item	1		
1,1,3	Machinery and Plant hire (Fixed)		Item	1		
1,2	ALTERATIONS AND DEMOLISHIONS					
1,2,1	Taking off existing Brickwork around the pump area		m2	80		
1,2,2	Excavate backwards, for working space to expose brickwall for demolishing		m3	50		
1,2,2	Demolishing of concrete slabs		m3	10		
1,2,3	Formwork, Shuttering and propping up soffits of concrete slab		m2	30		
1,2,4	Removal of steel balustrade to access		m	4		
1,2,5	Removal of 170mm girth and 210mm girth trees and destump		No	2		
1,2,6	Removal 28mm leaking valve.		No	2		
1,2,7	Cartaway and removal of all rubble		m3	6		
1,2,8	Remove existing DB board and surrounding cabling.		Item	1		
1,2,9	Demolish and remove existing concrete walkways next to the tank		Item	1		
1,2,10	Remove existing concrete channels next to existing building		Item	1		
1,3	RE - INSTALLATION					
1,3,1	Reinforced Concrete for the Tank walls and slabs		m3	50		
1.3.1	20mm thick marbleite as a protective layer to the internal of the tank		m2	60		
1.3.2	150mm reinforcement		m	3500		
1.3.3	Construct 1200mm wide concrete walkways		m3	20		
1.3.4	Construct v - concrete channels next to existing building		m3	20		
1.3.5	Construct Balustrade		m	6		
1,4	PUMPS AND ELECTRICAL					
1.4.1	Refurbish 360NB40- CCM100 Rapid Allweiler Pump 4,0kW 3/380V Foras Pump complete with 3kW, 3/380V, 4 pole motor		no	1		
1.4.2	Refurbish MN32 - 200C, 4,0kW 3/380V Foras Pump complete with 4kW, 3/380V motor		no.	1		
1.4.3	Supply and install Electrical Panel		no.	1		
1.4.4	Re - installation of all plumbing work, piping and valves		Item	1		
1,5	PROVISIONAL SUMS					
1.5.1	Allow an amount of provisional sums for sundries and commissioning		Item	1		
TOTAL FOR SABS WATER STORAGE TANK						