KLERKSDORP MANIFOLD,TANK FARM, BUNDED WALL & SPILL BASIN REPAIR- Estimates						
ITEM	CIVIL WORKS INFORMATION	UNIT	QTY	Rate	AM	OUNT
1.0	'Preliminary and General (Show Cost Breakdown)					
1.1	Contractor to provide breakdown	Sum	1		R	-
l			1		R	
<u> </u>			1		- N	
2	Site Work					
2.1	Sewer system inspections and repair					
2.1.1	Break the existing concrete slab	m³	3.6		R	-
2.1.2	Excavate the area to expose the sewer system piping.	m³	22		R	-
2.1.3	Inspect the sewer system to locate the source of the blockage.	sum	1		R	-
	Backfill the excavated area using appropriate bedding and backfill materials to support the new pipe and prevent		22			
2.1.4	future settling or damage, as described in the scope of works.  Reinstate the broken concrete slabs	m³ m³	3.6		R	
2.1.3	Remstate the broken concrete stabs	m-	3.0		K	-
2.2	Roof inspection and repairs.					
2.2.1	Conduct roof inspections.	sum	1		R	-
	<u> </u>					
2.3	Labout to replace sealant joints in the tank farm, spill basin and the manifold.					
2.3.1	Carefully remove existing sealant joints.	m	300		R	-
2.3.2	Clean and prepare all expansion joints.	m	300		R	-
2.3.3	Inspect all expansion joints for damages.	Sum	1		R	-
2.3.5	Insert a sealant backing cord into the expansion joint openings	m	300		R	-
	Inject a self-levelling silicone joint sealant to all the expansion joint	m	300		R	-
2.4	Repair Cracks in the Bund Floors and Bund Walls of the Tank Farm, Spill Basin, and the Manifold.					
2.4.1	Clean the slab to remove dirt, dust, sludge, oil, and contaminants	sum	1		R	_
2.4.2	Ream the crack 20 mm wide and 10 mm deep with an angle grinder.	m	50		R	-
2.4.3	Remove all loose material with a wire brush and a vacuum cleaner.	m	50		R	-
2.4.4	Supply, mix and apply a two-component, structural repair epoxy mortar into the reamed crack	m	50		R	-
2.4.5	Smooth the two-component, structural repair epoxy mortar.	m	50		R	-
2.5	Allowance for repairing sewer pipe defects		1.5			
2.5.1	Cut and remove the damaged section of the sewer pipe.	m sum	15		R R	-
2.5.3	Supply the necessary piping for repairs.  Supply the necessary pipe joint, gaskets, seals and fittings (elbows, tees, couplings)	Sum	1		R	
2.3.3	Install the new section of sewer pipe, ensuring proper alignment and connection to existing infrastructure, in	Suili	1		K	
2.5.4	accordance with SANS 10400-Part P standards.	m	15		R	_
2.5.5	Supply bedding sand	m <sup>3</sup>	1.0		R	-
	117					
	Provision Allowance for roof repairs					
2.5.4	Remove damaged roof sheeting.	m²	90		R	-
2.5.5	Detach and remove rotten wood purling from the structure	m <sup>2</sup>	90		R	-
2.5.6	Supply roof sheeting and fasteners matching the existing ones on the control room building.	No	15		R	-
2.5.7	Supply wooden purling and fasteners matching the existing ones on the control room building.	No	14		R	-
2.5.8	Install the new purlins and secure them with appropriate fasteners.  Install and fasten the roof sheeting using appropriate fasteners.	No No	14 15		R R	
2.5.10	Supplying roof paint and painting the new roof sheeting to match the existing roof sheeting colour.	m <sup>2</sup>	90		R	
2.3.10	Supplying foot paint and painting the new foot sheeting to match the existing foot sheeting colour.		70		K	
	Allowance for repairing slab joints					
2.5.10	Mix and apply concrete repair motar to damaged expansion joints	Sum	1		R	-
	7.7					
					R	-
3.0	Waste disposal					
3.1	Dispose waste in accordance to local manucipality requirements	Sum	1		R	-
			+		D	
			+ +		R	-
			1 1		R	