



<p><b>REPLACEMENT OF UNDERGROUND ASBESTOS PIPE WITH CLASS 16 PVC PLASTIC PIPES FOR FIRE HYDRANTS AT NALEDI TRAIN YARD</b></p>
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**SCHEDULE OF QUANTITIES**

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## **PART D: SCHEDULE OF QUANTITIES**

	<b><u>BILL NO. 1</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>	<b><u>Amount</u></b>
	<b><u>ALTERATIONS</u></b>				
	<b><u>REMOVAL OF THE EXISTING</u></b>				
	<b>Taking out and removing and set aside for re-use and latter installation to new fire hydrant network</b>				
1	Fire hydrants stand pipes with fire hydrant valves and all other connections	No.	20	R -	R -
					R -
	<b><u>BILL NO. 2</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>	<b><u>Amount</u></b>
	<b><u>EARTHWORKS</u></b>				
	<b><u>SUPPLEMENTARY AND PREAMBLES</u></b>				
	<b>Excavation:</b>				
	No claim for rock excavation will be entertain unless the contractor has timeously notified the project manager thereof prior to backfilling				
	Laying, backfilling, bedding, etc				
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instruction				
	Where no manufacturers' instruction exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of SABS 1200 L				
	Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7, and 7 of SABS 1200 DB Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes)				
	<b><u>Leave site in good condition</u></b>				
	The contractor shall leave the site where plumbing was executed, clean and neat at completion.				
	<b><u>EXCAVATION, FILLING, ETC</u></b>				
	<b><u>Cutting and removing</u></b>				
1	Tared surfaces	m <sup>2</sup>	20	R -	R -

	<b>Excavation in earth not exceeding 2m deep by hand</b>						
2	Trenches	m <sup>3</sup>	2000	R	-	R	-
	<b>Extra over all excavation for carting away</b>						
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	30	R	-	R	-
	<b>Risk of collapse of excavation</b>						
4	Sides of trenches not exceeding 2m deep	m <sup>2</sup>	4000	R	-	R	-
	<b>Keeping excavation free of water</b>						
5	Keeping excavation free of water	Item		R	-	R	-
	<b>Cut and borrow to fill including all material Incl free haul to 0.5Km</b>						
6	Material in compacted layer thickness 200mm and less, compacted to 90% Mod AASHTO density	m <sup>3</sup>	30	R	-	R	-
	<b>Earth filling obtain from the excavation and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</b>						
7	Backfilling to trenches	m <sup>3</sup>	2300	R	-	R	-
	<b>Coarse river sand filling supplied by the contractor</b>						
8	100mm Under floor, etc	m <sup>2</sup>	2000	R	-	R	-
	<b>Compaction of surfaces</b>						
9	Compaction of ground surface under floors etc	m <sup>2</sup>	2000	R	-	R	-
	<b>Hot mix asphalt resurfacing</b>						
	<b>The surface to be sprayed with primer (SS60), A 6.7mm continuous fine asphalt mix with a temperature not less than 1000C to be laid maintaining a thickness of 40mm after compaction. The completed surface to be carefully inspected for rough or low spots, surface irregularities, untidy edges, incomplete compaction or other faults and these will need to be rectified.</b>						
10	40mm thick after compaction hot mix asphalt	m <sup>2</sup>	30	R	-	R	-

	resurfacing					
						R -
	<b><u>BILL NO. 3</u></b>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>
	<b>CONCRETE, FORMWORK</b>					
	<b>UNREINFORCED CONCRETE</b>					
	<b>Unreinforced concrete cast against excavated surfaces</b>					
	<b>25MPa/20mm concrete</b>					
1	Trust blocks cast on all ties, elbows, wyes, caps, valves, hydrants, reducers, etc	m <sup>3</sup>	10	R -	R	-
	<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>					
	<b>Rough formwork to sides</b>					
2	Trust blocks	m <sup>2</sup>	50	R -	R	-
						R -
	<b><u>BILL NO. 4</u></b>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>
	<b><u>PLUMBING WORK</u></b>					
	<b>WATER SUPPLIES TO FIRE APPLIANCES</b>					
	<b>High density polyethylene class 16 pipes</b>					
1	110mm pipes	m	2000	R -	R	-
	<b>Extra over high density polyethylene class 16 pipes for fittings</b>					
2	Compression 110mm equal tee	No.	6	R -	R	-
3	Compression elbow 110x90mm	No.	4	R -	R	-
4	Compression Tee female 110x4	No.	20	R -	R	-
5	Compression end plug 110mm	No.	7	R -	R	-
6	Compression coupling 110mm	No.	40	R -	R	-

	<b>VALVES</b>						
7	100mm brass Gate valves	No.	6	R	-	R	-
8	Valve box include lead to 100mm gate valves	No.	6	R	-	R	-
9	Re-installation of removed Fire hydrants stand pipes with fire hydrant valves and all other connections	No.	20	R	-	R	-
	<b>Commissioning and Testing</b>						
10	Testing, commissioning and hand over of the works	Item	1	R	-	R	-
						R	-

***FINAL SUMMARY*****CLASS 16 PVC PLASTIC PIPES FOR FIRE HYDRANTS AT NALEDI YARD**

	STATION NAME	PAGE	AMOUNT
1	Alterations	3	R -
2	Earthworks	3 to 4	R -
3	Concrete Work	4	R -
4	Plumbing work	4 to 6	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -