

NAMA KHOI MUNICIPALITY

WATER AND SANITATION

CONTRACT NO: BID/NC062/02/2024-2025

VAALHOEK, O'KIEP, SEWER RETICULATION NETWORK

SCHEDULE A: PRELIMINARY AND GENERAL

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
A1		SANS 1200 AB 1200 A	<u>SCHEDULE A: PRELIMINARY AND GENERAL</u>				
		8,3	Fixed-Charge Items:				
A1.1		8.3.1	Contractual Requirements	Sum	1		
A1.2		8.3.2	Establish Facilities on the site for Engineer (PS AB 3.2)				
A1.2.1		8.3.2.1	a) Furnished offices (PS AB 3.2)	Sum	1		
A1.2.2			b) Telephone, 3G Data Mobile Data Dongle (PS AB 4.1)	Sum	1		
A1.2.3			c) Printer, Copier, Scanner	No	1		
A1.2.4			d) Name boards (PS AB 3.1)	No	2		
A1.3		SANS 1200 AB 8.3.2.2	Facilities for Contractor				
A1.3.1			a) Offices and Storage sheds	Sum	1		
A1.3.2			b) Workshops	Sum	1		
A1.3.3			c) Laboratories	Sum	1		
A1.3.4			d) Ablution and Latrine facilities	Sum	1		
A1.3.5			e) Tools and Equipment	Sum	1		
A1.3.6			f) Water supplies, Electrical power, Communication facilities	Sum	1		
A1.3.7			g) Dealing with water	Sum	1		
A1.3.8			h) Access	Sum	1		
A1.3.9			i) Plant	Sum	1		
A1.3.10		8.3.4	Removal of site establishment on completion of works	Sum	1		
TOTAL CARRIED FORWARD							

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BROUGHT FORWARD							
A1.3.11		8.3.3	Other fixed-charge obligations (Specify)	Sum	1		
A2		8. 8.4	Time-related Items:				
A2.1		8.4.1	Contractual requirements	Sum	1		
A2.2		8.4.2	Operate and maintenance of facilities on site for the Engineer for the duration of the contract (PS AB 3.2)				
A2.2.1			a) Engineers office as per Item A1.3	Sum	1		
A2.2.2			b) Telephone, 3G Data Mobile Data Dongle	Sum	1		
A2.2.3			c) Printer, Copier, Scanner	No	1		
A2.2.4			d) Name boards	Sum	1		
A2.3		8.4.2.2	Facilities for Contractor for duration of Contract				
A2.3.1			a) Offices and storage shed	Sum	1		
A2.3.2			b) Workshops	Sum	1		
A2.3.3			c) Laboratories	Sum	1		
A2.3.4			d) Ablution and Latrine facilities	Sum	1		
A2.3.5			e) Tools and equipment	Sum	1		
A2.3.6			f) Water supplies, Electrical power, Communication facilities	Sum	1		
A2.3.7			g) Dealing with water	Sum	1		
A2.3.8			h) Access	Sum	1		
A2.3.9			i) Plant	Sum	1		
A2.4		8.4.3	Supervision	Sum	1		
A2.5		8.4.4	Company and Head office overhead costs	Sum	1		
A2.6		PS A8.11	Health And Safety				
TOTAL CARRIED FORWARD							

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ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
A2.6.1		PS A8.11.1	Health and Safety Requirements	Sum	1		
A2.6.2		PS A8.11.2	Health & Safety Plan	Sum	1		
A2.6.3		PS A8.11.3	Health and Safety File	Sum	1		
A2.7		PS A8.10	Environmental				
A2.7.1		PS A 8.10.1	Environmental requirements	Sum	1		
A2.7.2		PS A 8.10.2	Environmental awareness training	Sum	1		
A2.7.3			Allow for all costs involved for personnel attending the environmental awareness training	Sum	1		
A2.8			Allow for all costs involved for surveying the site on private properties for:				
			a) Private Sewer	Prov Sum	1		
			b) Public Sewer	Prov Sum	1		
A2.9		8.4.5	Other time related obligations (Specify)	Sum	1		
A3			Sundries:				
A3.1			Provisional Sum for the payment of the CLO	Sum	1		
A3.2			Overhead charges and profit on item A3.1	%			
A3.3			Allow for all costs associated with the recruitment, employment and management of the CLO and unskilled local labour. Include the costs associated with complying with statutory requirements of employment of casual labour.	month			
A3.4			Allow for all costs involved in complying with the general provisions of the Environmental Management specifications.	Sum	1		
TOTAL CARRIED FORWARD							

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BROUGHT FORWARD							
A3.5			Allow for all costs involved in complying with the general provisions of the OHS Act and the OHS specification in terms of 2014 Construction Regulations.	Sum	1		
A3.6			Allow a provisional sum for the provision of public awareness signage.	Sum	1		
A3.7			Overhead charges and profit on item A3.6.	%			
A3.8			Allow for all costs involved in supply of a CCTV video survey of the inside of all sewer pipelines, including establishment(pipe Ø160mm to Ø200mm)	m	3810		
A4		PS A	Sums stated provisionally by Engineer, for:				
A4.1			a) Tests by Engineer	Prov Sum	1	25 000,00	25 000,00
A4.2			b) Relocation of Telecommunication, Electrical	Prov Sum	1	75 000,00	75 000,00
A5		PS A 8.5(b) 2	Extra over Item A3 percentage allowed for overhead costs charges, profit, supervision, management and co-operation				
A5.1			a) Tests by Engineer	%	25000		
A5.2			b) Relocation of Telecommunication and Electrical Services	%	75000		
A5.3			As built survey by Independent Surveyor	Sum	1		
A5.4			Allow for all cost involved in Dust Control as per PSD5.1.4.1	Sum	1		
A5.5			Telephone: Metered calls by the Engineers Representative to be paid on certification by the Engineer within 10 days.	PC Sum	1	12 000,00	12 000,00
TOTAL CARRIED FORWARD TO SUMMARY							112 000,00

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ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							112 000,00
A5.6		PS A 8.8.2	Allow for all costs in handling traffic, maintaining access, providing barricades and traffic signs etc. in accordance with Traffic Regulations when working in or adjacent to existing Proteaville Roads.	Sum	1		
A6		8,7	Dayworks (prov Qty's):				
		i)	Note: All rates to be GROSS (mark-up included). The tenderer must state the capacity of the plant that this rate is based on				
		ii)	Dayworks rates will apply irrespective of the percentage increase in quantities. Clause 6.3.1 of the General Conditions of Contract limiting increase in quantities and/or sub-items will not apply to dayworks				
A6.1			Labour Charges during normal working hours				
A6.1.1			Un-Skilled Labour	h	50		
A6.1.2			Semi-Skilled Labour	h	50		
A6.1.3			Skilled Labour	h	50		
A6.1.4			Ganger	h	50		
A6.1.5			Site Foreman	h	50		
A6.1.6			Supervisor	h	50		
TOTAL CARRIED FORWARD TO SUMMARY							112 000,00

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ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							112 000,00
A6.2			Plant Charges				
A6.2.1			Articulated Dumper Truck (capacity 10m ³ loose) Manufacturer:.....Model:.....	h	25		
A6.2.2			Digger-loader with a minimum capability of 58 kW min: Manufacturer:.....Model:.....	h	25		
A6.2.3			Excavators 93 Kw min Manufacturer:.....Model:.....	h	20		
A6.2.4			Grader (12700 - 14999 kg) Manufacturer:.....Model:.....	h	20		
A6.2.5			Front-end loader (2m ³ bucket min) Manufacturer:.....Model:.....	h	10		
A6.2.6			Pneumstic self-propelled roller (5-14 tons) Manufacturer:.....Model:.....	h	10		
A6.2.7			Flat Steel Roller (10-12 tons) Manufacturer:.....Model:.....	h	10		
A6.2.8			Pedestrian Roller Manufacturer:.....Model:.....	h	10		
A6.2.9			Vibrating Self-Propelled Roller (7 - 12.5 tons) Manufacturer:.....Model:.....	h	20		
A6.2.10			Forward and Reverse Compactor Manufacturer:.....Model:.....	h	10		
A6.2.11			Compactor (pan) Manufacturer:.....Model:.....	h	10		
A6.2.12			Mechanical Compactor Manufacturer:.....Model:.....	h	10		
A6.2.13			Water Cart (9000l)	h	20		
TOTAL CARRIED FORWARD							112 000,00

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ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							112 000,00
A6.2.14			Water Cart (15000l)	h	20		
A6.2.15			Pumps: Centrifugal 100mm	h	20		
A6.2.16			Pumps: Centrifugal 150mm	h	20		
			Trucks:				
A6.2.17			3 ton	h	10		
A6.2.18			Tip-up (10m ³)	h	10		
A6.2.19			Flatbed (5 ton)	h	10		
A6.2.20			Flatbed (10 ton)	h	10		
A6.2.21			Concrete Dumper	h	10		
A6.2.22			Concrete Mixer (10/7)	h	10		
A6.2.23			LDV (1 ton)	h	10		
A6.2.24			Tractor and Trailer	h	10		
TOTAL CARRIED FORWARD TO SUMMARY							112 000,00

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SCHEDULE B: SITE CLEARANCE

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
		SANS 1200 C	<u>SCHEDULE B: SITE CLEARANCE</u>				
B1		8.2.1 PS C 5.1	Clear, grub including trees up to 1m girth:				
B1.1	LIC		a) Road reserves	ha	1,5		
B1.2	LIC		b) Servitude Areas	ha	1		
B1.3	LIC		3) Private Properties (5m wide)	m	2,5		
B2		8.2.2	Remove and grub large trees and tree stumps of girth:				
B2.1	LIC		1 - 2m	No	5		
B3		PS C 8.2.14	Remove, stockpile and maintain at contractors camp site for re-use				
B3.1	LIC		a) Base/Subbase(crusher run or laterite) from existing side walks, verges and roads	m ³	750		
B3.2	LIC		g) Concrete Bollards	No	5		
B3.3	LIC	8.2.10	h) Topsoil	m ³	1 000		
B3.4	LIC		i) Landscaping, grass and vegetation	m ²	50		
B3.5	LIC		j) Paving from driveways	m ²	50		
TOTAL CARRIED FORWARD							

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SCHEDULE B: SITE CLEARANCE

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
B4		PS C 8.2.12	Remove and recycle on or off-site (at recycling facility identified and procured by the Contractor) of asphalt surfacing from:				
B4.1	LIC		a) Roads - asphalt up to 60mm thick	m ³	5		
B4.2	LIC		b) Side walks, driveways and walkways - asphalt 40mm thick	m ³	5		
B5		PS C 8.2.12	Remove and recycle on or off-site (at recycling facility identified and procured by the Contractor) the following:				
B5.1	LIC		Concrete up to 100 mm thick from driveways, channels and verges	m ³	10		
B5.2	LIC		Brick paving up to 90 mm thick from driveways	m ³	10		
B6			Demolish, remove and recycle on or off-site (at recycling facility identified and procured by the Contractor) the following existing structures:				
B6.1	LIC		Small brick and mortar structures which includes roof sheeting, tiles etc.	m ³	20		
B6.2	LIC		Brick and mortar structure such as septic tanks, Manholes, Catch pits etc.	m ³	20		
TOTAL CARRIED FORWARD							

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SCHEDULE B: SITE CLEARANCE

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
B7		PS C 8.2.16	Miscellaneous Take down, secure and re-erect existing boundary fence/wall for:				
B7.1	LIC		Wire Mesh Fence up to 1.5m height	m	800		
B7.2	LIC		Galvanized Steel Palisade up to 1.5m height	m	20		
B7.3	LIC		Vibracrete up to 1.5m height	m	50		
B7.4	LIC		Brick (230mm) up to 1.5m height	m	50		
B9		PS C 8.2.13	Remove and spoil-off site unusable rubble and concrete that was saw cut to licensed spoil site identified and procured by the Contractor	m ³	20		
B10		PS DB	Saw cut Existing Concrete for depths :				
B10.1	LIC		0.00 mm to 150 mm	m ²	5		
B11		PS C 8.2.11	Remove and recycle the asphalt that was saw cut on or off-site (at recycling facility identified and procured by the Contractor)	m ³	5		
B12		PS C 8.2.11	Saw-cutting of existing asphalt edge in :				
B12.1	LIC		Roads	m ²	5		
B13	LIC	PS C 8.2.15	Dismantle structured metal, wood work and store at contractors camp for re-use	m ³	50		
B14			Liaising with property owners for construction access to midblock properties	No	150		
TOTAL CARRIED FORWARD							

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SCHEDULE B: SITE CLEARANCE

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
B15			Extra over on item B7 for the supply and install of all material necessary to make up deficiency to reinstate boundary fencing/wall to original condition or better for:				
B15.1	LIC		Wire Mesh Fence up to 1.5m height	m	100		
B15.2	LIC		Galvanized Steel Palisade up to 1.5m height	m	5		
B15.3	LIC		Vibracrete up to 1.5m height	m	20		
B15.4	LIC		Brick (230mm) up to 1.5m height	m	50		
B16	LIC		Take down, secure and re-erect existing signboards	No	10		
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE C: EARTHWORKS

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
		SANS 1200 D	SCHEDULE C: EARTHWORKS				
			Roadworks:				
C1		DM 8.3.3	Preparation and in-situ compaction of roadbed (min. 150mm thick) to:				
C1.1.1			98% MOD. AASHTO-density (100% for sand) under roads.	m ³	40		
C1.1.2			98% MOD. AASHTO-density (100% for sand) under side walks.	m ³	10		
C1.1.3			98% MOD. AASHTO-density (100% for sand) under driveways, walkways, brick paved areas and laterite areas.	m ³	500		
C1.2		DM 8.3.3	In-situ treatment of roadbed in:				
C1.2.1			a) Intermediate material	m ³	100		
C1.2.2			b) Hard rock material	m ³	25		
C.2		8.3.2	Excavate in all materials on site and use for the following:				
C2.1		8.3.2(a)	Cut material from erven, open spaces and road reserve to stockpile on site and maintain	m ³	100		
C2.2		8.3.2(a)	Fill on erven, open space and within road reserve compacted to 98% MOD.AASHTO density (100% for sand) with material from stockpile	m ³	100		
C2.3		8.3.2(a)	Spoil unsuitable material from erven, road reserve and stockpile off site (Licenced spoil site procured by the contractor. Tipping fee and/or permit to be included in rate.)	m ³	50		
C2.4			Spoil unsuitable material from stockpile off site (Contractors own spoil site)	m ³	50		
C2.5			Straw stabilizing	ha	0,5		
TOTAL CARRIED FORWARD TO SUMMARY							

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SCHEDULE D: FOUL SEWER(MUNICIPAL MAINS)

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
SCHEDULE D: FOUL SEWER (MUNICIPAL MAINS)							
Excavations							
D1		SANS	Trench excavation in all materials, backfilling, compacting and removal of surplus material for sewerage pipes up to 315mm diameter				
		PS DB 8.3.2(a)					
D1.1			0.00 - 1.0 m	m	1065		
D1.2			1.01 - 2.0 m	m	11989		
D1.3			2.01 - 3.0 m	m	543		
D1.4			3.01 - 3.5 m	m	23		
D2		DB 8.3.2	Extra over Item 8.3.2(a) for excavation in:				
D2.1		DB 8.3.2(b)	Intermediate excavation	m ³	2727		
D2.2		DB 8.3.2(b)	Hard rock excavation	m ³	10912		
D2.3		DB 8.3.2(c)	Excavate and dispose of unsuitable material from trench excavation and spread on low areas as identified by Engineer	m ³	13639		
D3		DB 8.3.3	Excavation Ancillaries				
D3.1			Make up deficiency in backfill material from commercial sources	m ³	13639		
D3.2			Compaction in road reserve	m ³	4500		
D4		DB 8.3.4	Particular items				
			Shore trench opposite structure, service or where depth exceeds:				
D4.1	LIC		1.50 - 2.0m	m	100		
D4.2	LIC		2.01 - 3.0m	m	100		
D5		DB 8.3.6 PSDB 8.3.6.1	Finishing				
			Use topsoil from stockpile at campsite and place 150 mm thick	m ³	1 000		
D6			Reinstate landscaping to original state and maintain for 1 month period.	m ²	50		
D7	LIC		Assemble structured metal, wood work from contractors camp	m ³	50		
TOTAL CARRIED FORWARD							

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ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
D8		PSDB 8.3.6.1	Reinstate roads, driveway and other surfaces complete with all courses from stockpile at contractors site camp				
D8.1			Gravel	m ²	4000		
D8.2	LIC		Paving (80mm Interlocking) a) Smooth Finish	m ²	100		
D8.3	LIC		Paving (60mm Bond) a) Smooth Finish	m ²	100		
D8.4	LIC		Asphalt of thickness 40mm	m ²	50		
D9		PSDB 8.3.6.1	Reinstate roads, driveway and other surfaces complete with all courses from commercial sources				
D9.1			Gravel	m ²	1000		
D9.2	LIC		Paving (80mm Interlocking) a) Smooth Finish	m ²	25		
D9.3	LIC		Paving (60mm Bond) a) Smooth Finish	m ²	25		
D9.4	LIC		Concrete 100mm thick	m ²	20		
D9.5	LIC		Asphalt of thickness 40mm	m ²	50		
D9.6	LIC		Asphalt of thickness 25mm	m ²	10		
TOTAL CARRIED FORWARD							

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ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
D10			Excavation Ancillaries				
D10.1		PS DB 8.3.5(b)	Existing Services: Services parallel to trench excavations: a) Stormwater Pipes & Channels b) Water Pipes c) Electrical Cables d) Telecommunication ducts/sleeves	m	100		
D10.2		PS DB 8.3.5(a)	Services that intersect trench excavations: a) Stormwater Pipes & Channels b) Stormwater structures c) Water Pipes d) Water house connections e) Valves and Fire Hydrants f) Telecommunication ducts/sleeves g) Telecommunication structures and poles h) Electrical cables and house connections i) Electrical and Light poles	No	15		
D11			The use or hire of specialist equipment to detect existing services	Sum	1		
D12		PS D 8.3.8.1(c)	Digging of holes to expose existing services	m ³	100		
TOTAL CARRIED FORWARD							

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BROUGHT FORWARD							
D13		PS DB 8.3.8	Handling of ground water in trenches where trench conditions are unstable:				
D13.1			Supply and place crushed stone (19mm) from commercial sources as directed by Engineer	m ³	100		
D13.2			Supply and place geotextile as directed by Engineer	m ²	300		
D14		PS LB 5.1.2	Bedding:				
			Install bedding from excavations from site				
D14.1		PS LB 8.1.3	Bedding cradle	m ³	20		
D14.2		PS LB 8.1.4	Fill blanket	m ³	20		
			Install bedding from commercial off-site sources				
D14.3			Bedding cradle	m ³	1305		
D14.4			Fill blanket	m ³	4325		
D14.5			25mm crushed stone	m ³	50		
D14.6			Concrete bedding cradle (15Mpa)	m ³	10		
D14.7			Concrete pipe encasement (25Mpa)	m ³	20		
D15		PS LD 3.1.5	Pipes:				
			Supply, handle, lay and bed (Class B bedding) Class 34 uPVC foul sewer pipes				
D15.1	LIC		110mm dia	m	1430		
D15.2	LIC		160mm dia	m	12200		
TOTAL CARRIED FORWARD							

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ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
D16		8.2.1	House Connections Supply, handle, lay and bed (Class B bedding) class 34 uPVC fittings and pipes				
D16.1	LIC		160x110mm dia Y-junctions	No	349		
D16.4	LIC		110mm x 45° bends	No	349		
D16.5	LIC	PS LD 8.2.13	110mm dia end caps	No	349		
D17			Supply and install complete as indicated on drawings: Manholes:				
D17.1		PS LD 8.2.3	Precast concrete ring type to detail with heavy duty hinged type ductile iron cover and frame in compliance with EN124-D400 for the following depths:				
	LIC		a) 0,5 m - 1,00 m	No	5		
	LIC		b) 1,01 m - 1,50 m	No	236		
	LIC		c) 1,51 m - 2,00 m	No	39		
	LIC		d) 2,01 m - 2,50 m	No	7		
	LIC		e) 2,51 m - 3,00 m	No	3		
TOTAL CARRIED FORWARD							

NAMA KHOI MUNICIPALITY

WATER AND SANITATION

CONTRACT NO: BID/NC062/02/2024-2025

VAALHOEK, O'KIEP, SEWER RETICULATION NETWORK

SCHEDULE D: FOUL SEWER(MUNICIPAL MAINS)

ITEM NO	LIC	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD							
D18	LIC	PS LD 8.2.11	Allow for all cost involved in connecting to existing manhole with new 160mm Ø sewer main including handling of flow and fittings.	No	1		
D18	LIC	PS LD 8.2.11	Allow for all cost involved in connecting to existing 160mm Ø sewer main with new manhole including handling of flow and fittings. Manhole measured elsewhere.	No	1		
D19	LIC	PSLD 3.6	Allow for all cost involved in marking foul sewer house connection ends with 1200mm steel fencing Y standard pole including wire to connection endcap and painted brown	No	349		
TOTAL CARRIED FORWARD TO SUMMARY							

SUMMARY OF SECTIONS		
SECTION	DESCRIPTION	AMOUNT R
A	PRELIMINARY AND GENERAL	112 000,00
B	SITE CLEARANCE	
C	EARTHWORKS	
D	FOUL SEWER (MUNICIPAL MAINS)	
	SUB-TOTAL	112 000,00
	CONTINGENCIES Allow the sum of 10% (ten percent) of the above Sub-total for contingencies to be spend as the Engineer may direct and to be deducted in whole or in part if not required.	11 200,00
	TOTAL INCLUDING CONTINGENCIES	123 200,00
	<u>VALUE ADDED TAX</u> ADD: VAT at the rate of 15%	18 480,00
	Carried to part ??? Form of Offer and Acceptance	141 680,00