

BOQ FOR TERM CONTRACTORS FOR SERVICES RELATED TO WATER AND
SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Rate
1	<u>WATER RELATED WORKS</u>			
1,1	<u>INSTALLATION OF NEW WATER CONNECTION ON MAINLINE</u>			
	Rate to include excavations to expose connection point on mainline, connecting, backfilling, compact and dispose of surplus material. (Exclude materials)			
1.1.1	15mm dia.Connection.	Item	1	
1.1.2	20mm dia.Connection.	Item	1	
1.1.3	25mm dia.Connection.	Item	1	
1.1.4	40mm dia.Connection.	Item	1	
1.1.5	50mm dia.Connection.	Item	1	
1.1.6	75mm dia.Connection.	Item	1	
1.1.7	100mm dia.Connection.	Item	1	
1.1.8	150mm dia.Connection.	Item	1	
1,2	<u>INSTALLATION OF NEW WATER CONNECTION POINT AND WATER CONNECTION ON MAINLINE</u>			
	Rate to include excavation to expose mainline, installation of saddle, connecting, backfilling, compact and dispose of surplus materials. (Exclude materials)			
1.2.1	15mm dia.Connection.	Item	1	
1.2.2	20mm dia.Connection.	Item	1	
1.2.3	25mm dia.Connection.	Item	1	
1.2.4	40mm dia.Connection.	Item	1	
1.2.5	50mm dia.Connection.	Item	1	
1.2.6	75mm dia.Connection.	Item	1	
1.2.7	100mm dia.Connection.	Item	1	
1.2.8	150mm dia.Connection.	Item	1	
1,3	<u>INSTALLATION OF NEW WATER CONNECTION POINT AND WATER CONNECTION ON MAINLINE</u>			
	Rate to include excavations to expose mainline, cutting of mainline and instalation of T-piece, connecting, backfilling, compact and dispose of surplus material. (Exclude materials)			
1.3.1	50mm dia.Connection.	Item	1	
1.3.2	75mm dia.Connection.	Item	1	
1.3.3	100mm dia.Connection.	Item	1	
1.3.4	150mm dia.Connection.	Item	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

BOQ FOR TERM CONTRACTORS FOR SERVICES RELATED TO WATER AND
SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Rate
				R -
1,4	<u>REPLACE WATER METER AT EXISTING WATER CONNECTION</u>			
	Rate to include the removal of the water meter at existing water connection and replace with new water meter. (Excluding material)			
1.4.1	15mm dia.Connection.	Item	1	
1.4.2	20mm dia.Connection.	Item	1	
1.4.3	25mm dia.Connection.	Item	1	
1.4.4	40mm dia.Connection.	Item	1	
1.4.5	50mm dia.Connection.	Item	1	
1.4.6	75mm dia.Connection.	Item	1	
1.4.7	100mm dia.Connection.	Item	1	
1.4.8	150mm dia.Connection.	Item	1	
1,5	<u>REPLACE VALVE AT EXISTING WATER CONNECTION</u>			
	Rate to include the removal of the valve at existing water connection and with new vavle (Excluding material)			
1.5.1	15mm dia.Connection.	Item	1	
1.5.2	20mm dia.Connection.	Item	1	
1.5.3	25mm dia.Connection.	Item	1	
1.5.4	40mm dia.Connection.	Item	1	
1.5.5	50mm dia.Connection.	Item	1	
1.5.6	75mm dia.Connection.	Item	1	
1.5.7	100mm dia.Connection.	Item	1	
1.5.8	150mm dia.Connection.	Item	1	
1,6	<u>REPLACE VALVE/LOCK-VALVE AT EXISTING WATER CONNECTION</u>			
	Rate to include the excavation to locate valve on mainline, removal of the valve at existing water connection and replace with new valve, backfill, compact and dispose of surplus material, (Excluding material)			
1.6.1	15mm dia.Connection.	Item	1	
1.6.2	20mm dia.Connection.	Item	1	
1.6.3	25mm dia.Connection.	Item	1	
1.6.4	40mm dia.Connection.	Item	1	
1.6.5	50mm dia.Connection.	Item	1	
1.6.6	75mm dia.Connection.	Item	1	
1.6.7	100mm dia.Connection.	Item	1	
1.6.8	150mm dia.Connection.	Item	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Rate
				R -
1,7	<u>INSTALLATION GATE VALVE AND CONSTRUCTION OF VALVE BOX</u>			
	Rate to include excavation to expose mainline, cutting of main line, install valve, construction of valve box as per detail, concrete work, backfill, compact an dispose of surplus materials. (Excluding material)			
1.7.1	75mm dia. Gate valve	Item	1	
1.7.2	90mm dia. Gate valve	Item	1	
1.7.3	110mm dia. Gate valve	Item	1	
1.7.4	160mm dia. Gate valve	Item	1	
1.7.5	200mm dia. Gate valve	Item	1	
1.7.6	250mm dia. Gate valve	Item	1	
1.7.7	300mm dia. Gate valve	Item	1	
1.7.8	300mm dia. Gate valve and larger	Item	1	
1,8	<u>CONSTRUCTION OF VALVE BOX</u>			
1.8.1	Rate to include excavation to expose existing valve, construction of valve box as per detail, concrete work, backfill, compact an dispose of surplus materials (Exluding material)	Item	1	
1,9	<u>REPLACE EXISTING GATE VALVE AND CONSTRUCTION OF NEW VALVE BOX</u>			
	Rate to include excavation to expose existing valve, removal of existing valve, install new valve, construction of valve box as per detail concrete work, backfill, compact an dispose of surplus materials. (Excluding materials)			
1.9.1	75mm dia. Gate valve	Item	1	
1.9.2	90mm dia. Gate valve	Item	1	
1.9.3	110mm dia. Gate valve	Item	1	
1.9.4	160mm dia. Gate valve	Item	1	
1.9.5	200mm dia. Gate valve	Item	1	
1.9.6	250mm dia. Gate valve	Item	1	
1.9.7	300mm dia. Gate valve	Item	1	
1.9.8	300mm dia. Gate valve and larger	Item	1	
1,10	<u>CONSTRUCTION OF FIRE HYDRANT</u>			
	Rate to include excavation to expose mainline cutting of mainline, install T-piece, construction of fire hydrant as per detail, concrete work, backfill compact and dispose of surplus materials. (Excluding materials.)	Item	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

BOQ FOR TERM CONTRACTORS FOR SERVICES RELATED TO WATER AND
SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Rate
				R -
1,11	REPAIR WATER LEAKAGE			
1.11.1	Rate to include excavation to expose mainline, repair pipe, concrete work, backfill, compact and dispose of surplus materials. (Excluding materials.)	Hour	1	
1,12	REPAIR GATE VALVE			
1.12.1	Rate to include excavation to expose mainline, repair valve, concrete work, replace existing valve box, backfill, compact and dispose of surplus materials. (Excluding materials.)	Hour	1	
1.12.2	Repair existing convensional water meter. (Excluding materials.)	Hour	1	
1.12.3	Repair existing prepaid water meter. (Excluding materials.)	Hour	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

BOQ FOR TERM CONTRACTORS FOR SERVICES RELATED TO WATER AND
SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Rate
				R -
1,13	<u>INSTALL TANK AND TANK STAND</u>			
1.13.1	Rate to include excavation for concrete footings, concrete work, erecting 3m high tank stand, placing of 10000 litre tank on stand, connecting of water line backfill, compact of water line, backfill, compact and dispose of surplus materials. (Excluding materials.)	item	1	
1,14	<u>CONSTRUCT STANDPIPE</u>			
1.14.1	Rate to include excavation to expose mainline, install saddle, construction of standpipe as per detail, concrete work, backfill, compact and dispose of surplus materials. (Excluding materials.)	item	1	
1,15	<u>CONSTRUCT PRE-PAID STANDPIPE</u>			
1.15.1	Rate to include excavation to expose mainline, install saddle, installation of Pre-Paid standpipe complete with protection poles as per detail, concrete work, backfill, compact and dispose of surplus materials. (Excluding materials.)	item	1	
1,16	<u>CONCRETE WORK WITH REGARD TO INSTALLATION</u>			
	Cast In-Situ concrete for installations	m3	1	
1,17	<u>EXCAVATIONS</u>			
	Excavations in all materials for trenches for 315mm dia. Smaller. Rate to include only excavation			
1.17.1	Up to 1.5mm deep (700mm wide)	m	1	
1,18	<u>EXCAVATIONS FOR ROAD CROSSING</u>			
	Excavations in all materials for trenches for 315mm dia. Smaller. Rate to include only excavation and handling of traffic.			
1.18.1	Up to 1.5mm deep (700mm wide)	m	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

BOQ FOR TERM CONTRACTORS FOR SERVICES RELATED TO WATER AND
SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Rate
				R -
1,19	PIPE BEDDING			
1.19.1	Provision of selected granular material for bedding cradle for flexible pipes from Borrow pits	m3	1	
1.19.2	Provision of selected fill for flexible pipes from Borrow pits	m3	1	
1.19.3	Overhaul for imported material for bedding cradle and selected fill blanket	m3/km	1	
1,20	uPVC PRESSURE PIPE AND FITTINGS			
	Rate to include handle, lay, bed, backfill, compact, dispose of surplus materials and test of uPVC pressure pipes and fittings. (Conforming with SABS 966-1976 specifications) (Excluding materials.)	m	1	
1,21	CLAMPON PIPES (50 - 150mm dia.)			
1.21.1	Rate to include handle, lay, securing pipe on anchor blocks and test of clampton pipes	m	1	
1,22	ANCHOR BLOCKS FOR CLAMPON PIPES (50 - 150mm dia.)			
1.22.1	Rate to include earthworks, formwork, mixing and placing of concrete and placing of bolts for brackets. (Excluding materials.)	m	1	
1,23	PROVISION OF MATERIALS FOR REPAIRS			
1.2.1	Provide materials	as per invoice		
1.23.2	Mark-up and handling fee of material	%		
1,24	TRANSPORT OF MATERIAL AND EQUIPMENT			
1.24.1	Transport of material up 1 Ton	km	1	
1.24.2	Transport of material more than 1 Ton	km	1	
1,25	BRICKWORK			
1.25.1	110mm walls plastered one side. (Excluding materials.)	m2	1	
1.25.2	220mm walls plastered one side. (Excluding materials.)	m2	1	
1,26	PRESSURE CONTROL VALVES			
1.26.1	Servicing of pressure control valve, including ancillaries. Material shall be as per Item 1.23.	No.	1	
1.26.1	Replacement of pressure control valve, including pipework and ancillaries. Material shall be as per Item 1.23.	No.	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

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	DESCRIPTION	UNIT	QTY	Rate
	SEWER RELATED WORK			
2,1	<u>EXCAVATION OF SEWER CONNECTION ON MAIN LINE</u>			
	Excavation in all materials to expose the existng sewer connection point on the mainline for depths			
2.1.1	0 tot 1.5m deep	Item	1	
2.1.2	1.5 tot 2.0m deep	Item	1	
2.1.3	2 tot 2.5m deep	Item	1	
2.1.4	2.5 tot 3.0m deep	Item	1	
2.1.5	3.0 tot deeper	Item	1	
2,2	<u>PROVISION OF ADDITIONAL SEWER CONNECTION ON MAINLINE</u>			
	Excavation in all materials to expose mainline and constrction of new connection point (Excluding materials.)			
2.2.1	0 tot 1.5m deep	Item	1	
2.2.2	1.5 tot 2.0m deep	Item	1	
2.2.3	2 tot 2.5m deep	Item	1	
2.2.4	2.5 tot 3.0m deep	Item	1	
2.2.5	3.0 tot deeper	Item	1	
2,3	<u>INSTALLATION OF MAINHOLES</u>			
	Excavation in all materials to expose mainline, cutting of mainline, all concrete work for floor slab and benching, placing of manhole rings, cover slab and lid, sealing of manhole, backfilling and clearing of site for depths (Excluding materials.)			
2.3.1	0 tot 1.5m deep	Item	1	
2.3.2	1.5 tot 2.0m deep	Item	1	
2.3.3	2 tot 2.5m deep	Item	1	
2.3.4	2.5 tot 3.0m deep	Item	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

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				R -
2,4	EXCAVATIONS			
	Excavations in all materials for trenches for 315mm dai. Smaller. Rate to include only excavation			
2.4.1	0 tot 1.5m deep	m	1	
2.4.2	1.5 tot 2.0m deep	m	1	
2.4.3	2 tot 2.5m deep	m	1	
2.4.4	2.5 tot 3.0m deep	m	1	
2.4.5	3.0 and deeper	m	1	
2.4.6	Repair of mainhole			
	Rate to include replace of broken ring roof, lid and clearing of site			
2.4.7	Raising and lowering of manhole 0-500mm			
2,5	EXCAVATION FOR ROAD CROSSING			
	Excavation in all materials for trenched for 315mm dia. And smaller sewer pipe lines. Rate to include only excavation and handling of traffic			
2.5.1	0 tot 1.5m deep	m	1	
2.5.2	1.5 tot 2.0m deep	m	1	
2.5.3	2 tot 2.5m deep	m	1	
2.5.4	2.5 tot 3.0m deep	m	1	
2.5.5	3.0 and deeper	m	1	
2,6	PIPE BEDDING			
2.6.1	Provision of selected grandular material for bedding cradlle for flexible pipes from Borrow pits	m3	1	
2.6.2	Provision of selected fill for flexible pipes from Borrow pits	m3	1	
2.6.3	Overhaul for imported material for bedding cradle and selected fill blanket	m3/km	1	
2,7	PVC SEWER PIPE			
2.7.1	Rate to include handle, lay, bed, backfill, compact, dispose of surplus materials and test of PVC sewer pipes (Excluding materials.)	m	1	
2,8	INSTALLATION OF RODDING EYE			
	Excavation in all materials to expose mainline, cutting of mainline, all concreete work, backfilling and clearing of site for depths (Excluding materials.)			
2.8.1	0 tot 1.5m deep	Item	1	
2.8.2	1.5 tot 2.0m deep	Item	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Proposed Rates
				R -
2,9	CLEANING OF SEWER LINES			
2.9.1	Cleaning of sewer lines with sewer rods and accessories			
2.9.1.1	Cleaning of sewer line (Period less than two hours)	Item	1	
2.9.1.2	Cleaning of sewer line (Period more than two hours)	Hours	1	
2.9.2	Cleaning of sewer lines with with high pressure sewer cleaning machine			
2.9.2.1	Cleaning of sewer line	Hours	1	
2.9.2.2	Inspecting of sewer line using camera	Hours	1	
2,10	PROVISION OF MATERIALS			
2.10.1	Provide materials	as per invoice		
2.10.2	Mark-up and handling fee of material	%		
2,11	TRANSPORT OF MATERIAL AND EQUIPMENT			
2.11.1	Transport of material up 1 Ton	km	1	
2.11.2	Transport of material more than 1 Ton	km	1	
2,12	BRICKWORK			
2.11.1	110mm walls plastered one side. (Excluding materials.)	m2	1	
2.11.2	220mm walls plastered one side. (Excluding materials.)	m2	1	
TOTAL CARRIED FORWARD TO NEXT PAGE				R -

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

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SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY
3	GENERAL		
3,1	<u>CUTTING OF TARRED SURFACE</u>		
3.1.1	Cutting of tarred surface diagonally across street on both sides of excavation. Rate to include reinstatement of surface after completion of works.	m	1
3,2	<u>LOCATION OF SERVICES</u>		
3.2.1	Excavate in all materials to locate existng services backfilling, compacting, discard of excess material and cleaning of site	Hour	1
3,3	<u>INVESTIGATION FOR COMPLAINTS</u>		
3.3.1	Investigation of complaints	Item	1
3.3.2	Water leak scanner set-up	Item	1
3.3.3	Water leak scanning (up to 1km)	Item	1
3.3.4	Water leak scanning (from 1.01km up to 5km)	Item	1
3,4	<u>COMPRESSER WORK</u>		
3.4.1	Compressor work (Compressor, equipment and fuel provided by the client)		
3.4.1.1	Compressor with one jackhammer	Hour	1
3.4.1.2	Compressor with two or more jackhammers	Hour	1
3.4.2	Compressor work (Compressor, equipment and fuel provided by Contractor)		
3.4.2.1	Compressor with one jackhammer	Hour	1
3.4.2.2	Compressor with two or more jackhammers	Hour	1
3.4.2.3	Excavation using TLB	Hour	1
3,5	<u>Hard rock excavation</u>		
3.5.1	Removal of rock by means of jackhammers. (No explosives)		
3.5.1.1	Intermediate	m3	1
3.5.1.2	Hard	m3	1
3.5.2	Removal of rock by means of explosive	m3	1
3,6	<u>REMOVE PAVING</u>		
3.6.1	Remove paving and remove stockpile from site. Rate to include reinstatement after completion of works.	m2	1
3,7	<u>REMOVE CONCRETE</u>		
3.7.1	Break concrete and remove rubble from site. Rate to include reinstatement after completion of works.	m3	1
3,8	<u>BULK EXCAVATION</u>		
3.8.1	Bulk excavations in all materials. Rate to include only excavation and handling of traffic	m3	1
TOTAL CARRIED FORWARD TO NEXT PAGE			

BOQ FOR TERM CONTRACTORS FOR SERVICES RELATED TO WATER AND
SANITATION WORKS FOR THE MOGALAKWENA LOCAL MUNICIPALITY

	DESCRIPTION	UNIT	QTY	Proposed Rates
				R -
3.9	<u>WORK AFTER HOURS</u>			
	Rate for the performing of work after hours as and when required. On instruction by the municipality.			
3.9.1	Weekdays	Hour	1	
3.9.2	Saturdays	Hour	1	
3.9.3	Sundays and public holidays	Hour	1	
3.10	<u>STANDBY (On instruction by MLM and agreed schedule with MLM)</u>			
3.10.1	Rate for having personnel on standby- Weekdays (All work done during standby will be paid according to the specific item on the rates)			
3.10.1.1	Artisan	Day	1	
3.10.1.2	4 labourers	Day/Team	1	
3.10.2	Rate for having personnel on standby- Saturdays (All work done during standby will be paid according to the specific item on the rates)			
3.10.2.1	Artisan	Day	1	
3.10.2.2	4 labourers	Day/Team	1	
3.10.3	Rate for having personnel on standby- Sundays and Public holidays (All work done during standby will be paid according to the specific item on the rates)			
	Artisan	Day	1	
	4 labourers	Day/Team	1	
3.11	<u>GENERAL LABOUR WORK</u>			
	Providing labourers for specfic work as and when required. For works that is not covered by anyother item in the BoQ			
3.11.1	2 labourers	Day	1	
3.11.2	4 labourers	Day	1	
3.11.3	8 labourers	Day	1	
3.11.4	10 labourers	Day	1	
3.11.4	15 labourers	Day	1	
				R -
	SUB TOTAL			R -
	15% VAT			R -
	TOTAL			R -
NOTE:				
All rates must include for Preliminary and General, Occupational Health and Safety aspects as well as accomodation of traffic. There shall be no additional payment outside the stated rates and submitted supplier's invoives.				