

ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
1	SABS 1200AA	SECTION 1 : PRELIMINARY AND GENERAL				
1.1	8.3	FIXED-CHARGE ITEMS				
1.1.1	8.3.1	Contractual requirements	Sum	1		
1.1.2	8.3.2	Establishment of facilities on the site				
1.1.2.1	8.3.2.1	<u>Facilities for Engineer:</u>				
1.1.2.1.1		(a) Furnished offices	Sum	1		
1.1.2.1.2		(b) Nameboard	Sum	1		
1.1.2.1.3		(c') 2 No. Shaded Parking Bays	Sum	1		
1.1.2.2	8.3.2.2	<u>Facilities for the Contractor:</u>				
1.1.2.2.1		(a) Offices and storage sheds	Sum	1		
1.1.2.2.2		(b) Workshops	Sum	1		
1.1.2.2.3		(c) Living Accomodation	Sum	1		
1.1.2.2.4		(d) Ablutions and latrine facilities	Sum	1		
1.1.2.2.5		(e) Tools and equipment	Sum	1		
1.1.2.2.6		(f) Water supplies, electric power and communications	Sum	1		
1.1.2.2.7		(g) Dealing with water	Sum	1		
1.1.2.2.8		(h) Access	Sum	1		
1.1.3	8.3.3	Other fixed-charge obligations				
1.1.3.1		(a) Health and Safety Obligations	Sum	1		
1.1.3.2		(b) Risk assessment	Sum	1		
1.1.3.3		(c) Preparation of Project Specific OHS Plan	Sum	1		
1.1.3.4		(d) Health and Safety bFile	Sum	1		
1.1.3.5		(e) Training	Sum	1		
1.1.3.6		(f) Entry and Exist Medical Assessment of Employees	Sum	1		
1.1.3.7		(g) Compliance with Requirements of Environmental Management Plan	Sum	1		
1.1.4	8.3.4	Removal of site establishment on completion of the Works	Sum	1		
1.2	8.4	TIME-RELATED ITEMS				
1.2.1	8.4.1	Contractual Requirements	Months	8		
1.2.2	8.4.2	Operation and Maintenance of Facilities on Site, for the Duration of Construction				
	8.4.2.1	<u>Facilities for Engineer:</u>				
1.2.2.1		(a) Furnished offices	Months	8		
1.2.2.2		(b) Nameboard (1 no.)	Months	8		
1.2.2.3		(c) 2 No. Shaded Parking Bays	Months	8		
	8.4.2.2	<u>Facilities for Contractor:</u>				
1.2.2.4		(a) Offices and storage sheds	Months	8		
1.2.2.5		(b) Workshops	Months	8		
TOTAL CARRIED FORWARD						

O. R. Tambo DISTRICT MUNICIPALITY NYANDENI LOCAL MUNICIPALITY MCHONCO WATER SUPPLY						
Contract No.: ORTDM SCMU 12-26/27 SECTION 1: PRELIMINARY AND GENERAL						
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
1.2.2.6		(c) Living Accomodation	Months	8		
1.2.2.7		(d) Ablutions and latrine facilities	Months	8		
1.2.2.8		(e) Tools and equipment	Months	8		
1.2.2.9		(f) Water supplies, electric power and communications	Months	8		
1.2.2.10		(g) Dealing with water	Months	8		
1.2.2.11		(h) Access	Months	8		
1.2.3	8.4.3	Supervision for duration of construction	Months	8		
1.2.4	8.4.4	Company and Head Office Overhead costs for the Duration of the Contract	Months	8		
1.2.5		<u>OHS ACT Requirements</u>				
1.2.5.1	PSA 8.1 & PSA 8.2	Full compliance with all OHS Act 85 of 1993 and Construction Regulations 2014 requirements during the construction of the Works				
1.2.5.2		Provision of Health and Safety Officer, with industry recognized qualifications in Environmental Health, or in Public Health, or in Safety Management, and registered with the South African Council for Project and Construction Management Professions (SACPCMP), as a Registered Occupational Health & Safety Agent.	Months	8	#REF!	
1.2.5.3		Comply with project Environmental Management Specification fully	Months	8	#REF!	
1.3	8.6	PRIME COST ITEMS				
1.3.1		Community Liaison Officer (CLO)	P.C Sum	1	R 72 000,00	
1.3.1.1		(b) Provision of cellphone for use by CLO	P.C Sum	1		
1.3.1.2		(c) CLO's cellphone costs (at R200/month)	P.C Sum	1		
1.3.2		Contractor's mark up on above Items 1.3.1.1	%	R72 000,00		
1.3.3		Employment of PSC for the duration of the contract (5No at R500pm each)	Prov. Sum	1	R 20 000,00	
1.3.4		Contractor's mark up on above Items 1.3.1.5	%	R 20 000,00		
1.3.5		Allowance for Civil Engineering Student / Trainee	Prov. Sum	1	R 76 000,00	
1.3.6		Contractors markup on the above 1.3.7	%	R 76 000,00		
1.4	8.8	TEMPORARY WORKS				
1.4.1		Provision of access to the Works:				
1.4.1.1		Provide access to the Works including all temporary deviation roads, excavations and ramps, etc.	Sum	1		
1.4.2	SANS 1921-2	Accomodation of traffic				
1.4.2.1		Accommodation and management of traffic during the Contract	Sum	1		
1.5	8.7	DAYWORK				
1.5.1		Unskilled workers	hr	10		
1.5.2		6m³ Tipper Truck	hr	10		
1.5.3		Tractor-loader-backhoe (TLB)	hr	10		
1.5.4		Water Pump	hr	10		
1.5.5		Generator	hr	10		
SECTION 1 TOTAL CARRIED FORWARD TO SUMMARY						

O. R. Tambo DISTRICT MUNICIPALITY**NYANDENI LOCAL MUNICIPALITY****MCHONCO WATER SUPPLY****Contract No.: ORTDM SCMU 12-26/27****SECTION 2: SITE CLEARANCE**

ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
2	SABS 1200 C	SECTION 2: SITE CLEARANCE				
2.1	8.2.1	Clear and Grub:				
2.1.1		Clear and grub pipeline route (1 m width)	m	28 626		
2.1.2	8.2.2.a)	Clear and grub trees of girth:				
2.1.2.1		Greater than 1 m but less than 2 m	No	1		
2.2		Remove Topsoil				
2.2.1	8.3.1(c)	Remove topsoil (1 m width) to a depth of 150 mm, stockpile and maintain for duration of contract, for later use, using mechanical excavation methods only.				
2.2.1.1		For pipelines	m	28 626		
2,3		Existing Water Services Proofing				
2.3.1		Allow for physical location and confirmation of existing	Prov Sum	1	R 50 000,00	
2.3.2		Contractor's mark up on above Items 2.3.1	%	R 50 000,00		
SECTION 2 TOTAL CARRIED FORWARD TO SUMMARY						

O. R. Tambo DISTRICT MUNICIPALITY**NYANDENI LOCAL MUNICIPALITY****MCHONCO WATER SUPPLY****Contract No.: ORTDM SCMU 12-26/27****SECTION 3: EARTHWORKS (PIPE TRENCHES)**

ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
3	SABS 1200 DB	SECTION 3: EARTHWORKS (PIPE TRENCHES)				
3.1	SABS 1200 DB	Pipe Trenches				
3.1.1	8.3.2 (a)	Excavation in all materials for trenches min. 700 mm wide, 800 mm cover to soffit, backfill, compact and dispose of surplus / unsuitable material, for pipes of up to 250mm diameter				
3.1.1.1	8.3.2 (a) (ii)	Over 0.0 m and up to 1.5 m	m	33 678		
3.1.1.2	8.3.2 (b)	Extra-over item for 3.1.1.1 for				
3.1.1.3	8.3.2 (b) (i)	Intermediate Excavation	m ³	471		
3.1.1.4	8.3.2 (b) (ii)	Hard Rock Excavation	m ³	189		
3.1.1.5	8.3.2 (e)	Excavate and dispose of unsuitable material from trench bottom	m ³	94		
3.2	8.3.3	Excavation Ancillaries				
3.2.1	8.3.3.1	Make up deficiency in Backfill Material (Provisional)				
3.2.2	8.3.3.1 (a)	From other necessary excavations on site	m ³	47		
3.2.3	8.3.3.1 (b)	by importation from designated borrow pits	m ³	47		
3.2.4	8.3.3.1 (c)	by importation from commercial or off-site sources selected by the contractor	m ³	47		
3.2.5	8.3.5	Existing Services that intersect or Adjoin a pipe trench				
3.2.5.1	8.3.5 (a)	Services that intersect a trench	no.	20		
3.2.5.2	8.3.5 (b)	Services that adjoin a trench	m	100		
3.3	8.3.6	Finishing				
3.3.1	8.3.6.1	Reinstate road surfaces complete with all courses				
3.3.2	8.3.6.1 (a)	Gravel on shoulders	m ²	168		
3.3.3	8.3.6.1 (c)	Asphalt of thickness 40mm in roadways	m ²	51		
SECTION 3 TOTAL CARRIED FORWARD TO SUMMARY						

O. R. Tambo DISTRICT MUNICIPALITY**NYANDENI LOCAL MUNICIPALITY**

MCHONCO WATER SUPPLY

Contract No.: ORTDM SCMU 12-26/27

SECTION 4: BEDDING (PIPES)

ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
4	SABS 1200 LB	SECTION 4: BEDDING (PIPES)				
4,1	8.2.1	Provision of Bedding From Trench Excavation				
4.1.1	8.2.1(a)	Selected granular material	m ³	888		
4.1.2	8.2.1(b)	Selected fill material	m ³	888		
4,2	8.2.2	Supply only of Bedding by Importation				
4.2.1	8.2.2.1	<u>From other Necessary Excavations</u>				
4.2.1.1	8.2.2.1(a)	Selected granular material	m ³	592		
4.2.1.2	8.2.2.1(b)	Selected fill material	m ³	592		
4.2.2	8.2.2.3	<u>From Commercial Sources</u>				
4.2.2.1	8.2.2.3(a)	Selected granular material	m ³	1 925		
4.2.2.2	8.2.2.3(b)	Selected fill material	m ³	1 925		
4.2.2.3		Supply and place 19mm stone bedding (provisional)	m ³	3		
4.2.2.4		Supply and install Grade A4 geofabric filter membrane (provisional)	m ²	20		
4.2.3	8.2.3	<u>Concrete Bedding Cradle (Provisional)</u>				
4.2.3.1		15/19 Grade concrete	m ³	15		
SECTION 4 TOTAL CARRIED FORWARD TO SUMMARY						

O. R. Tambo DISTRICT MUNICIPALITY NYANDENI LOCAL MUNICIPALITY MCHONCO WATER SUPPLY						
				Contract No.: ORTDM SCMU 12-26/27 SECTION 5: MEDIUM PRESSURE PIPELINES		
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
5	SABS 1200 L	SECTION 5 : MEDIUM PRESSURE PIPELINES				
5,1	SABS 1200 L	mPVC PIPES				
5.1.1	8.2.1	Supply, lay, bed and test pipes complete with couplings, mPVC Class 16 Pipes to SABS 966-1:				
5.1.1.1		110mm Ø mPVC (rising main)	m	6 180		
5.1.1.2		110mm Ø mPVC (gravity main)	m	0		
5.1.2	8.2.2	Extra over item 5.1.1 for supply, lay, joint, bed, test and disinfect specials incl cut pipes to length where required PVC class 16 complete with couplings				
5.1.3		mPVC Pipe Bends (CL 16)				
5.1.3.1		90° bends	No	40		
5.1.3.2		45° bends	No	50		
5.1.3.3		22.5° bends	No	25		
5.1.3.4		11.25° bends	No	110		
5.1.4		mPVC Equal Tees (CL 16)				
5.1.4.1		110mm x 110mm x 110mm	No	6		
5.1.4.2	8.2.3	Extra-over item 5.1.1 for Supplying, Fixing and Bedding of Valves				
5.1.4.2.1		250 mm Ø Isolation Valve assembly complete	No	2		
5.1.4.2.2		200 mm Ø Isolation Valve assembly complete	No	2		
5.1.4.2.3		160mm Ø Isolation Valve assembly complete	No	5		
5.1.4.2.4		110mm Ø Isolation Valve assembly complete	No	5		
5.1.4.2.5		90mm Ø Isolation Valve assembly complete	No	2		
5.1.4.2.6		75mm Ø Isolation Valve assembly complete	No	2		
5.1.4.2.7		50mm Ø Isolation Valve assembly complete	No	76		
5.1.4.2.8		110mm Ø Pressure Reducing Valve assembly complete	No	10		
5.1.4.2.9		110mm Ø Scour Valve assembly complete	No	12		
5.1.4.2.10		110mm Ø Non-Return Valve assembly complete	No	8		
5.1.4.2.11		110mm Ø Air Valve assembly complete	No	15		
5.1.5	8.2.11	Anchor/Thrust Blocks and Pedestals as shown on Drawing No. 2513-MCH-C-D-009	m ³	11		
5.1.6	8.2.13	Valve Chambers as shown on drawing No. 2513-MCH-C-D-005	No	45		
5.1.7	8.2.13	Pipe Markers as shown on drawing No. 2513-MCH-C-D-007	No	50		
5.2		Zonal Isolation Valves, Meter and Standpipes				
TOTAL CARRIED FORWARD						

O. R. Tambo DISTRICT MUNICIPALITY						
NYANDENI LOCAL MUNICIPALITY				Contract No.: ORTDM SCMU 12-26/27		
MCHONCO WATER SUPPLY				SECTION 5: MEDIUM PRESSURE PIPELINES		
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
5.2.1	SABS 1200 L	Supply and install zonal Isolation Valves with Water Meter assemblies complete with chamber. Rate to be inclusive of all pipework, strainer and specials.				
		50mmØ Isolation Valve and Meter	No	3		
		160mmØ Isolation Valve and Meter	No	2		
		200mmØ Isolation Valve and Meter	No	3		
		250mmØ Isolation Valve and Meter	No	2		
		315mmØ Isolation Valve and Meter	No	1		
5.2.2		Supply and install standpipe complete with meter, as per drawing No. 2513-MCH-C-D-002, including HDPE saddle, tap and galvanised riser pipe, concrete work including shuttering, elbows, nipples, stopcock valve etc.	No	127		
5.3		HDPE PIPES				
		Pipes of this material and diameter will undergo compression fitting connections, The rate shall include supply, handling, connecting as well as cutting and waste for jointing of elbows, pipes, drilling saddle holes and installing tee pieces. Each roll will be priced with one compression fitting coupling				
5.3.1		Supply, Lay, and Bed HDPE Class 10 Pipes Complete with Couplings in areas with no reticulation or with reticulation where replacement is required:				
5.3.1.1	8.2.1	25mm Ø PN10 HDPE	m	0		
5.3.1.2		50mm Ø PN10 HDPE	m	27 000		
5.2.2		Extra-over Item 5.3.1.1 for Supplying, Fixing, and Bedding of HDPE Specials Complete with Couplings:				
		<u>Compression Tees (PN12.5)</u>				
5.2.2.1		25mm Ø All equal Tee	No	0		
5.2.2.2		50mm Ø All equal Tee	No	125		
		<u>Compression Bends (PN12.5)</u>				
5.2.2.2		25mm Ø x 90° Bend	No	0		
5.2.2.3		50mm Ø x 90° Bend	No	105		
5.2.3		Allow for investigation and repairs to the existing services including pipes and to make them function properly again	Prov Sum	1	R 50 000,00	
5.2.4		Contractor's mark up on above Items 5.2.3	%	R 50 000,00		
SECTION 5 TOTAL CARRIED FORWARD TO SUMMARY						

O. R. Tambo DISTRICT MUNICIPALITY

NYANDENI LOCAL MUNICIPALITY

MCHONCO WATER SUPPLY

Contract No.: ORTDM SCMU 12-26/27

SECTION 6: SMALL WORKS (BOREHOLE KIOSK)

ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
6		SECTION 6: SMALL WORKS (No9 x BOREHOLE KIOSKS) Works will include the new and refurbishments at existing and new borehole kiosks)				
6,1	SABS 1200 C	SITE CLEARANCE				
6.1.1	8.2.1	Clear and Grub:				
6.1.1.1	8.2.1	Clear and grub pump house site and dispose of surplus material approved waste dump site.	m ²	30		
6.1.2		Remove Topsoil				
6.1.2.1	8.3.1(c)	Remove topsoil to a depth of 150mm, stockpile and maintain for duration of contract, for later use, using mechanical excavation methods only.				
6.1.2.1.1		For small works	m ²	30		
6,2	SABS 1200 DA	EARTHWORKS (SMALL WORKS)				
6.2.1		Restricted Excavation				
6.2.1.1		Restricted excavation in earth not exceeding 1 m depth				
6.2.1.2		For foundations	m ³	15		
6.2.1.3		Extra-over for excavation in:				
6.2.1.3.1		Intermediate material	m ³	1,5		
6.2.1.3.2		Hard rock	m ³	1,5		
6.2.2		Earthfilling				
6.2.2.1		Backfilling with material from the excavations compacted to density of at least 98% Mod. AASHTO density				
6.2.2.1.1		Under floors, pavings, etc.	m ³	30		
6.2.2.1.2		Backfilling to trenches, foundations, etc	m ³	5		
6.2.2.2		Filling with 150 mm thick G7 material imported from commercial source compacted to 95% Mod. AASHTO maximum density.				
6.2.2.2.1		Under floors and foundations	m ³	30		
6.2.3		Soil Poisoning				
6.2.3.1		With insecticides under floors, etc.	m ²	30		
6.2.4		Finishings				
TOTAL CARRIED FORWARD						

O. R. Tambo DISTRICT MUNICIPALITY NYANDENI LOCAL MUNICIPALITY MCHONCO WATER SUPPLY						
				Contract No.: ORTDM SCMU 12-26/27 SECTION 6: SMALL WORKS (BOREHOLE KIOSK)		
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
6.2.4.1	SABS 1200 DA	Spread topsoil from stockpile to a depth of 100 mm	m ²	10		
6.3	SABS 1200 GB	CONCRETE (ORDINARY BUILDINGS)				
6.3.1		Unreinforced Concrete				
6.3.1.1		15 Mpa/19mm Concrete (Provisional)	m ³	9		
6.3.2		Reinforced Concrete				
6.3.2.1		25 MPa/19mm Concrete for:				
6.3.2.1.1		Foundations and footings	m ³	20		
6.3.2.1.2		Surface beds, ramps, steps, aprons, e.t.c	m ³	18		
6.3.2.2		30 MPa/19mm Concrete for:				
6.3.2.2.1		Roof slabs	m ³	18		
6.3.3		Concrete Tests				
6.3.3.1		Making and testing of a set of three 150 x 150 x 150 mm concrete specimens	No.	9		
6.3.4		Concrete Finishes				
6.3.4.1		<u>Unformed surface finishes</u>				
6.3.4.1.1		Smooth finish with steel float to surface beds, etc.	m ²	45		
6.3.5		Reinforcement				
6.3.5.1		Ref. 245 welded mesh reinforcement in concrete surface beds, slabs, aprons, e.t.c.	m ²	100		
6.3.5.2		HT mild steel reinforcement to structural concrete members in bars of all diameters in ring beams, strip footings, etc.	kg	400		
6.3.6		Joints				
6.3.6.1		<u>Expansion joints</u>				
6.3.6.1.1		Expansion joints with 10mm polystyrene including 10x10mm polysulphide bead between vertical brick and/or concrete surfaces	m	45		
6.3.6.2		<u>Construction Joints</u>				
6.3.6.2.1		Construction joint between the walls and roof slab, with 2-ply malthoid layer	m	45		
6.4		MASONRY				
6.4.1		Brickwork in Foundations				
6.4.1.1		NFX brickwork (14MPa nominal compressive strength) in Class I mortar				
6.4.1.1.1		One-brick walls	m ²	45		
TOTAL CARRIED FORWARD						

O. R. Tambo DISTRICT MUNICIPALITY NYANDENI LOCAL MUNICIPALITY MCHONCO WATER SUPPLY						
				Contract No.: ORTDM SCMU 12-26/27 SECTION 6: SMALL WORKS (BOREHOLE KIOSK)		
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
6.4.2		Brickwork in Superstructure				
6.4.2.1		"Corobrik Firelight Travertine FBX" face bricks pointed with recessed horizontal and vertical joints in Class 1 mortar				
6.4.2.1.1		One-brick walls	m ²	200		
6.4.3		Damp-proofing of Walls and Floors				
6.4.3.1		One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course				
6.4.3.1.1		In walls	m	57		
6.4.3.2		One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting				
6.4.3.2.1		Under surface beds	m ²	57		
6.4.5		Doors, Frames, e.t.c				
6.4.5.1		Manufacturing and installation of 2134 mm x 1100mm "Type C" transformer room door and frame, including hinges and locksets.	No	3		
6.4.6		Ventilation				
6.4.6.1		Louvres 700mmx150mm	No	6		
6.5		FENCING				
6.5.1		Perimeter Fencing				
6.5.1.1		Supply and installation of High Security 2.4 m high clearvu fence with 76x12 Aperture or similar approved fence with 500 mm antibarrow and shark tooth spikes (both galvanised & marine fusion bond coated-acid modified), at all borehole Kiosks	m	102		
6.5.2		Gates				
6.5.2.1		Supply and install 3 m x 2,4 m heavy duty, Galvanized Mild Steel, double leaf vehicular gate including locks at all borehole kiosks	No	3		
6.5.3		Guard House				
6.5.3.1		Provide a security guard house complete with conservancy tank, including furniture at all borehole Kiosks as per drawing No. 2513-MCH-C-D-003	Prov Sum	1	R 120,00	
6.5.3.2		Contractors mark-up on item 6.5.3.1 above	%	R 120,00		
6.5.3.3		Supply and Provide a VIP Toilet (Double Pit 4m ³) Pre cast	Sum	1		
6.5.3.4		Supply and Provide Water Tanks (10 000 Litres) including all fittings and a Tap with a Stand and Fully Installed Aluminium Gutterings	Sum	1		
6.5.3.5		Supply, Provide and Install including All Fittings for Solar for Flood Lights and Lighting in the Pump Stations with a Pillar and guard Houses	Sum	1		
SECTION 6 TOTAL CARRIED FORWARD TO SUMMARY						

ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
7		SECTION 7: BULK STORAGE & TREATMENT FACILITIES (STEEL RESERVOIRS & PACKAGE PLANT)				
7,1	SABS 1200 C	SITE CLEARANCE				
7.1.1	8.2.1	Clear and Grub:				
7.1.1.1	8.2.1	Clear and grub reservoir site and dispose of surplus material approved waste dump site.	m ²	1500		
7.1.2	8.3.1	Remove Topsoil				
7.1.2.1	8.3.1(c)	Remove topsoil to a depth of 150mm, stockpile and maintain for duration of contract, for later use, using mechanical excavation methods only.				
7.1.2.1.1		For small works	m ²	520		
7,2	SABS 1200 DA	EARTHWORKS (SMALL WORKS)				
7.2.1		Bulk Excavation				
7.2.1.1		Excavation in earth to depths not exceeding 1 m deep, compacted to 95% MOD AASHTO and temporary stockpiling on site for re-use later	m ³	9		
7.2.1.2		Cut to fill, compact to 95% MOD AASHTO	m ³	9		
7.2.2		Restricted Excavation				
7.2.2.1		Restricted excavation in earth not exceeding 1 m depth				
7.2.2.1.1		For foundations	m ³	8		
7.2.2.2		Extra-over for excavation in:				
7.2.2.2.1		Intermediate material	m ³	3		
7.2.2.2.2		Hard rock	m ³	1		
7.2.3		Earthfilling				
7.2.3.1		Filling with 150 mm thick G7 material imported from commercial source compacted to 95% Mod. AASHTO maximum density.				
7.2.3.1.1		Under floors and foundations	m ³	120		
7.2.3.2		Filling with 100 mm thick river sand material imported from commercial source compacted to 90% Mod. AASHTO maximum density.				
7.2.3.2.1		Under floors and foundations	m ³	14		
TOTAL CARRIED FORWARD						

O. R. TAMBO DISTRICT MUNICIPALITY NYANDENI LOCAL MUNICIPALITY MCHONCO WATER SUPPLY			Contract No.: ORTDM SCMU 12-26/27 SECTION 7: BULK STORAGE (STEEL RESERVOIR)			
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
7.2.4	SABS 1200 GA	Soil Poisoning				
7.2.4.1		With insecticides under floors, etc.	m²	523		
7.3		CONCRETE (SMALL WORKS)				
7.3.1		Unreinforced Concrete				
7.3.1.1		15 Mpa/17mm Concrete	m³	1		
7.3.2		Reinforced Concrete				
7.3.2.1		30 MPa/17mm Concrete for:				
7.3.2.1.1		Foundations and footings	m³	90		
7.3.3		Concrete Tests				
7.3.3.1		Making and testing of a set of three 150 x 150 x 150mm concrete strength test cubes	No.	3		
7.3.4		Concrete Finishes				
7.3.4.1		<u>Unformed surface finishes</u>				
7.3.4.1.1		Smooth finish with steel float to surface beds, slabs, etc.	m²	20		
7.3.4.1.2		Rough finish with wood float to surface beds, slabs, etc.	m²	85		
7.3.5		Formwork				
		<u>Rough vertical to concealed surfaces:</u>				
		Rough vertical to narrow widths to edges:				
7.3.5.1		Edges up to 300 mm high	m	55		
7.3.5.2		Forming 25 mm circular chamfer on foundations	m	45		
7.3.6		Reinforcement				
7.3.6.1		HT mild steel reinforcement to structural concrete members in bars of all diameters in ring beams, strip footings, etc.	t	1		
TOTAL CARRIED FORWARD						

O. R. TAMBO DISTRICT MUNICIPALITY NYANDENI LOCAL MUNICIPALITY MCHONCO WATER SUPPLY						
Contract No.: ORTDM SCMU 12-26/27 SECTION 7: BULK STORAGE (STEEL RESERVOIR)						
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
7,4	SABS 1200 HA	STRUCTURAL STEELWORK (SMALL WORKS)				
7.4.1		Supply and erect a prefabricated steel reservoir complete. Rate to include for all inlet and outlet pipes, overflow pipe, access lid, ladders, air vents, disinfecting, testing, commissioning, etc.				
7.4.1.1		800 KI steel reservoir	Prov Sum	1	R1 050 000,00	
7.4.2.2		Contractors mark-up on item 7.4.1.1 above	%	R1 050 000,00		
7,5		WATER TREATMENT: PACKAGE PLANT				
		Allow for all the costs and expenses in connection with the design, manufacture, supplying and installation, testing and commissioning of a Package Plant for the treatment of water meeting the minimum SANS 241: 2015 Drinking Water quality requirements, including inlet and outlet pipes, etc - Refer to Appendix H in Tender document for groundwater quality analysis results to be used for the Package Plant				
7.5.1		1.5 MI Water Treatment Plant (Package)	Prov Sum	1	R2 500 000,00	
7.5.2		Contractors mark-up on item 7.5.1 above	%	R2 500 000,00		
7,6		FENCING				
7.6.1		Perimeter Fencing				
7.6.1.1		Supply and installation of High Security 2.4 m high clearvue fence with 76x12 Aperture or similar approved fence with 500 mm antistar and shark tooth spikes (both galvanised & marine fusion bond coated-acid modified)	m	240		
7.6.2		Gates				
7.6.2.1		Supply and install 3 m x 2,4 m heavy duty, Galvanized Mild Steel, double leaf vehicular gate including locks	No	1		
7,7		Guard House				
7.7.1		Provide a security guard house complete with 6000 L conservancy tank, including furniture.	Prov Sum	1	R 70 000,00	
7.7.2		Contractors mark-up on item 7.7.1 above	%	R 70 000,00		
SECTION 7 TOTAL CARRIED FORWARD TO SUMMARY						

O. R. Tambo DISTRICT MUNICIPALITY						
NYANDENI LOCAL MUNICIPALITY			Contract No.: ORTDM SCMU 12-26/27			
MCHONCO WATER SUPPLY			SECTION 8: MECHANICAL WORKS			
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
8		SECTION 8 : MECHANICAL & ELECTRICAL WORKS				
		Works to be executed and performed by Pump Supplier and/or Mechanical Subcontractor				
8,1		Submersible centrifugal borehole pumps, complete with motor, seals, coupling, etc: Supply, Install, Test & Commission				
8.1.9		Borehole EC/T70/0782: Franklin SVM100/40 4" wet end or similar approved, including 3.7kW 400V Franklin motor with sleeve (if required), with duty-point 1 l/s at a differential head of 185 m.	No	1		
8.1.10		3.7kW 400V DOL Control Panel	No	1		
8.1.1		Borehole EC/T20/1568: Franklin SS624/31 6" wet end or similar approved), including 18.5kW 400V Franklin submersible motor with sleeve (if required), with duty-point 5.8 l/s at a differential head of 195 m.	No	1		
8.1.2		18.5kW 400V DOL Control Panel	No	1		
8.1.7		Borehole 3128DB00059: Franklin SS624/25 6" wet end or similar approved, including 15kW 400V Franklin motor with sleeve (if required), with duty-point 6 l/s at a differential head of 165 m.	No	1		
8.1.8		15kW 400V DOL Control Panel	No	1		
8,2		Stainless Steel Bottom Adaptor	No	3		
8,3		Cast Iron Top Adaptor (for specific borehole riser pipe material supplied)	No			Rate only
8,4		Base plate				
8.4.1		50mm Cast Iron Base Plate	No	3		
8.4.2		32mm Cast Iron Base Plate	No	3		
8.4.3		65mm Cast Iron Base Plate	No	3		
8,5		Borehole Riser Pipe				
8.5.1		Borehole Riser Pipe: PE100 PN12.5 STR13.6 HDPE 65 mm (OD)	m	150		
8.5.2		Borehole Riser Pipe: PE100 PN12.5 STR13.6 HDPE 50 mm (OD)	m	150		
8.5.3		Borehole Riser Pipe: PE100 PN12.5 STR13.6 HDPE 32 mm (OD)	m	80		
8.5.4		Borehole Riser Pipe: Boreline (as an alternative to 8.5 above)	m			Rate only
TOTAL CARRIED FORWARD						

O. R. Tambo DISTRICT MUNICIPALITY						
NYANDENI LOCAL MUNICIPALITY			Contract No.: ORTDM SCMU 12-26/27			
MCHONCO WATER SUPPLY			SECTION 8: MECHANICAL WORKS			
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
8,6		Stainless Steel rope (to secure pump)	m			Rate only
8,9		Pipes and fittings to be supplied and installed in Borehole Chambers				
8.9.1		Allow for all costs for valves, instrumentation and pipework all as specified, depicted and listed on drawing 2512-LIB-C-D-001	Borehole	3		
8,5		Submersible cable				
8.5.1		16mm x 4-Core Aquaverne submersible cable	m	92,5		
8.5.2		6mm x 4-Core Aquaverne submersible cable	m	316		
8.5.3		10mm x 4-Core Aquaverne submersible cable	m	81,5		
8.5.4		4mm x 4-Core Aquaverne submersible	m	96,5		
8.5.5		2.5mm x 4-Core Aquaverne submersible	m	130,5		
8.5.6		Submersible Electrical Cable Joint	No	3		
8.5.7		Allow for electrical supply cables between DB and control panel.	m	30		
8.5.8		Allow for all costs and expenses in connection all required electrical cables to DB, control panel and pumping Kiosk	sum	1		
8.5.9		Duct for sensor cables: PE100 PN6 HDPE 32 mm (OD)	m	200		
8,6		EARTHWORKS (CABLE AND DUCT TRENCHES)				
		Excavate and set excavated material aside for re-use as filling for cable or sleeve trench not exceeding 1m deep				
8.6.1		In all material	m ³	12		
8.6.2		Bedding material imported from off-site source (provisional)	m ³	15		
8.6.3		Danger tape - 400 mm wide overlapping	m	450		
8,7		LV CABLES, INSTRUMENTATION CONTROL AND DATA CABLES				
		Allow for all the costs and expenses in connection with the supply and installation (including testing, factory acceptance testing) of the following materials and equipment:				
		Instrumentation Power cable Cu/PVC Insulated/PVC Bedded/SWA/PVC Sheathed 600/1000V multicore with stranded conductors. Cable fixed to cable tray, drawn into sleeves or laid into trenches.				
8.7.1		2.5mm ² x 3 core	m	75		
TOTAL CARRIED FORWARD						

O. R. Tambo DISTRICT MUNICIPALITY						
NYANDENI LOCAL MUNICIPALITY				Contract No.: ORTDM SCMU 12-26/27		
MCHONCO WATER SUPPLY				SECTION 8: MECHANICAL WORKS		
ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
BROUGHT FORWARD						
8.7.2		Terminations for Instrumentation Power cable Cu/PVC Insulated/PVC Bedded/SWA/PVC Sheathed 600/1000V multicore with stranded conductors. 2.5mm ² x 3 core	No	3		
8.7.3		Extra low voltage instrumentation cable fixed to cable tray, drawn into sleeves or power skirting. 1.5mm ² 1-pair	m	75		
8.7.4		Terminations for Extra low voltage instrumentation cable 1.5mm ² 1-pair	No	3		
8.7.5		Allow for any other costs and expenses in connection with all other required electrical cables to DB, control panel and pumping Kiosk	sum	1		
8,8		INSTRUMENTATION Allow for all the costs and expenses in connection with the design, manufacture, painting, supplying and installation of the following materials and equipment: Hydrostatic Level Transmitter complete including sensors, transmitters, mounting materials and stands as required.				
8.8.1		Supply and Install Flow Switch complete including mounting materials and stands as required.	No	3		
8.8.2		Supply and Install	No	3		
8.8.3		Pre-Commisioning Tests	Sum	1		
8.10		Miscellaneous work				
8.10.1		Install water depth monitoring probes in all boreholes (All Boreholes)	sum	1		
8,9		Overhead electrical power supply extension - Power Line Allow for all the costs and expenses in connection with overhead electrical power extension from existing electric power line supply to new boreholes and Package Plant (Rate to include all cost, i.e. Overhead line conductor, Treated wooden support poles, Line Hardware & Accessories, Protection & Safety, Accessories for connection at the boreholes, etc)				
8.9.1		1 Km Overhead extension line	Km	1		
SECTION 8 TOTAL CARRIED FORWARD TO SUMMARY						

ITEM NO.	PAYMENT REF.	DESCRIPTION	UNIT	QTY	RATE R	AMOUNT R
9		SECTION 10: REFURBISHMENT OF EXISTING				
9,1		Concrete Reservoir				
9.1.1		Crack injection, structural repair (patching), joint replacement, waterproofing membrane application, etc	Prov Sum	1	R 100 000,00	
9.1.2		Contractors mark-up on item 9.1.1 above	%	R 100 000,00		
9,2		Repair and replacement to pipes				
9.2.1		Repair and/or replace vandised / damaged pipeworks, valve and valve chambers including excavation in all material	Prov Sum	1	R 200 000,00	
9.2.2		Contractors mark-up on item 9.2.1 above	%	R 200 000,00		
9,3		Existing Taps / Standpipe taps				
9.3.1		Repair and/or replace vandised / damaged taps and standpipes, including any excavation in all material	Prov Sum	1	R 100 000,00	
		Contractors mark-up on item 9.3.1 above	%	R 100 000,00		
SECTION 10 TOTAL CARRIED FORWARD TO SUMMARY						

O. R. Tambo DISTRICT MUNICIPALITY**NYANDENI LOCAL MUNICIPALITY****MCHONCO WATER SUPPLY****Contract No.: ORTDM SCMU 12-26/27****SUMMARY**

SECTION	DESCRIPTION	AMOUNT (R)
1	Preliminary and General Items	
2	Site Clearance	
3	Earthworks (Pipe Trenches)	
4	Bedding (Pipes)	
5	Medium Pressure Pipelines	
6	Borehole Kiosk	
7	Bulk storage	
8	Mechanical and Electrical Works	
10	Refurbishment of Existing	
SUB-TOTAL 01		
ADD: 5% FOR CONTINGENCIES		
SUB-TOTAL 02		
ADD: VAT @ 15%		
TOTAL FORM OF OFFER		

SIGNED BY/ON BEHALF OF TENDERER

NAME

SIGNATURE

DATE