

ORTDM SCMU 06 – 20/21

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
1	SANS 1200 A	PRELIMINARY AND GENERAL				
1.1	8.3	<u>Scheduled Fixed-Charge and Value-Related Items</u>				
1.1.1	8.3.1	Contractual Requirements	Sum	1		
		<u>Provision for the site facilities:</u>				
1.1.2	8.3.2.1	a) Facilities for the Engineer	Sum	1		
1.1.3	8.3.2.2	b) Facilities for the Contractor	Sum	1		
1.1.4	8.3.3	General responsibilities and other fixed charge obligations	Sum	1		
1.1.5	8.3.4	Removal of site establishment on completion	Sum	1		
1.1.6		Two contract name board, see Std Dwg	Sum	1		
1.1.7		Compliance with the OHS Act regulations	Sum	1		
1.1.8		Compliance with the COVID19	Sum	1		
1.1.9		Allowance for Health and Safety Officer	Sum	1		
1.2	8.4	SCHEDULED TIME-RELATED ITEMS				
1.2.1	8.4.1	Contractual requirements	Sum	1		
1.2.2	8.4.2	Occupation and maintenance of the site facilities	Sum	1		
1.2.3	8.4.2.1	a) Facilities required by the Engineer	Sum	1		
1.2.4	8.4.2.2	b) Facilities required by the Contractor	Sum	1		
1.2.5		General responsibilities and other time related obligations	Sum	1		
1.2.6		Compliance with the COVID19	Sum	1		
		SUMS STATED PROVISIONALLY BY THE ENGINEER				
		<u>COMMUNITY LIASON OFFICER</u>				
1.3.1	PSA3	Employment of CLO for the duration of the Contract (R5 000,00 pm plus R500 pm cellphone allowance)	Prov. Sum	1	R 33 000,00	R 33 000,00
1.3.2		Contractor's mark up on the above	%	R 33 000,00		
1.3.3		Allow for Civil Engineering trainee (R7 500,00 pm plus R500 pm cellphone allowance)	Prov. Sum	1	R 48 000,00	R 48 000,00
1.3.4		Contractors mark up on Item 1.3.3 above	%	R 48 000,00		
1.3.5		Allow for Airtime to the Engineers site Personnel for the duration of the Contract (R5 000,00 pm)	Prov. Sum	1	R 30 000,00	R 30 000,00
1.3.6		Contractor's mark up on Item 1.3.5 above		R 30 000,00		
1.3.7		Allow for the provision of the As-Built Survey for the Project	Prov. Sum	1	R 105 000,00	R 105 000,00
1.3.8		Contractors markup on Item 1.3.7 above	%	R 105 000,00		
1.3.9		Allow for the provision of the Engineers bakkie for the duration of the Contract (R18 500,00pm)	Prov. Sum	1	R 111 000,00	R 111 000,00
1.3.10		Contractors markup on Item 1.3.9 above	%	R 111 000,00		
1.4	8.7	<u>Dayworks</u>				
1.4.1		Foreman	hr	20		
1.4.2		Skilled	hr	20		
1.4.3		Semi-skilled	hr	20		
1.4.4		Unskilled	hr	20		
1.4.5		TLB	hr	20		
Total Carried Forward To Summary						

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
2	SANS 1200 C & PSC	SITE CLEARANCE				
2.1		<u>CLEAR SITE</u>				
2.1.1	8.2.1	Clear and grub vegetation in strip 2m wide on pipe route. Rate to include for trees of girth up to and including 1m.	m	11 556		
2.1.2	8.2.2	<u>Where instructed remove and grub large trees and tree stumps of girth:</u>				
2.1.2.1	8.2.2(a)	over 1m and up to 2m.	No.	1		
2.1.3	8.2.10	Remove topsoil in 600mm wide strip to depth of 150mm, stockpile, maintain and reinstate.	m ³	1 040,00		
2.1.4	PSC 8.2.13	<u>Remove existing gravel layer works to stockpile and maintain (for use as selected layers) as instructed by the Engineer.</u>				
2.1.4.1		Gravel layer works to District Roads.	m ³	10		
2.1.4.2		Fill material	m ³	10		
2.1.4.3		Relocation of existing fences	km	0,1		
Total Carried Forward To Summary						

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
3	SANS 1200 D & 200 DB	PIPE TRENCHES				
3,1	PSDB 8.3.2	<u>Excavation</u>				
3.1.1	8.3.2(a)	<u>Excavate in all materials for trenches backfill, compact, and dispose of surplus/unsuitable material, for pipes:</u>				
3.1.1.1		<u>Up to and including 100mm ND for total trench depth:</u>				
3.1.1.1.1		Exceeding 0,0m but not exceeding 1.0m	m³	7 436		
3.1.1.1.2		Exceeding 1.0m but not exceeding 1.5m	m³	620		
3.1.1.1.3		<u>Extra over item for items 3.1.1.1.1 to 3.1.1.1.2 for hard rock (Prov)</u>	m³	207		
3,2		<u>Slope Protection (Provisional)</u>				
3.2.1		Earth diversion berms as instructed by the Engineer	No.	116		
3,3		Gravel layer works to District Roads.	m³	10		
Total Carried Forward to Summary						

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
4	SANS 1200 DK	GABIONS AND PITCHING				
		<u>Gabions</u>				
4,1	8,2	Excavate materials for gabions	m ³	10		
4,2	8.2.1	<u>Surface preparation for bedding of gabions.</u>				
4.2.1	8.2.1	Cavities filled with approved excavated material or rock (Provisional Quantity)	m ²	10		
4.2.2	8.2.1	Cavities filled with 15MPa concrete	m ²	14		
4,3	8.2.2 PSDK 3.1.2	<u>Construct gabions using double twisted hexagonal mesh type 80 with 3.4mm OD frame wire and 2.7mm OD mesh wire to SANS 1480:2005:</u>				
4.3.1		Supply and install the following rock filled gabion baskets complete :				
4.3.1.1		2 x 1 x 1m with 80 x 100mm galv. mesh	m ³	14		
4.3.1.2		3 x 2 x 1m with 80 x 100mm galv. mesh (Reno Mattress)	m ³	14		
4,4	8.2.4 PSDK 3.1.3	<u>Geotextile (Type AG 200) placed where ground water seepage occurs:</u>				
4.4.1	8.2.4	Below gabion mattresses	m ²	42		
Total Carried Forward To Summary						

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ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
5	SANS 1200 LB & PS LB	BEDDING				
5,1	8.2.1 & PS LB 3.1	<u>Provision of Bedding from Trench Excavation</u>				
5.1.1	8.2.1 (a)	Selected granular material	m ³	2 422		
5.1.2	8.2.1 (b)	Selected fill material	m ³	4 123		
5,2	8.2.2	<u>Supply only of Bedding by Importation</u>				
5.2.1	8.2.2.1	<u>From other necessary excavations (Provisional)</u>				
5.2.1.1	8.2.2.1 (a)	Selected granular material	m ³	285		
5.2.1.2	8.2.2.1 (b)	Selected fill material	m ³	485		
5.2.2	8.2.2.3	<u>From Commercial sources</u>				
5.2.2.1	8.2.2.3 (a)	Selected granular material	m ³	142		
5.2.2.2	8.2.2.3 (b)	Selected fill material	m ³	243		
5,3	8.2.3	<u>Concrete Bedding Cradle (Provisional)</u>				
5.3.1		15/19 Grade concrete	m ³	5		
5,4	8.2.4	<u>Encasing of Pipes in Concrete (Provisional)</u>				
5.4.1		Encasement of Pipe in 25/19 Grade concrete including all formwork and reinforcement (100kg steel per m ³ concrete)for water crossings	m ³	5		
Total Carried Forward To Summary						

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
6	SANS 1200 L	MEDIUM PRESSURE PIPELINES				
		<u>Supply, bed, lay, disinfect, join and test potable water pipelines. All works inclusive in the rate, except where specific items are provided. All activities in accordance with project specifications.:</u>				
6.1	8.2.1	<u>HDPE Pipes</u>				
6.1.1		40mm dia. Class 12	m	0		Rate Only
6.1.2		40mm dia. Class 16	m	0		Rate Only
6.1.3		50mm dia. Class 12	m	3 240		
6.1.4		50mm dia. Class 16	m	0		Rate Only
6.1.5		63 mm dia. Class 12	m	0		Rate Only
6.1.6		63 mm dia. Class 16	m	0		Rate Only
6.1.7		63 mm dia. Class 20	m	0		Rate Only
6.1.8		75 mm dia. Class 12	m	0		Rate Only
6.1.9		75 mm dia. Class 16	m	0		Rate Only
6.1.10		75 mm dia. Class 20	m	0		Rate Only
6.1.11		90 mm dia. Class 12	m	0		Rate Only
6.1.12		90 mm dia. Class 16	m	0		Rate Only
6.1.13		90 mm dia. Class 20	m	0		Rate Only
6.1.14		110 mm dia. Class 12	m	0		Rate Only
6.1.15		110 mm dia. Class 16	m	0		Rate Only
6.1.16		110 mm dia. Class 20	m	0		Rate Only
6.1.17		110mm HDPe Class 25	m	0		Rate Only
	8.2.1	<u>UPVC Pipes</u>				
6.1.18		63 mm diam. Class 12	m	3 834		
6.1.19		63 mm dia. Class 16	m	648		
6.1.20		75 mm dia. Class 20	m	0		Rate Only
6.1.21		90 mm diam. Class 12	m	0		Rate Only
6.1.22		90 mm dia. Class 16	m	0		Rate Only
6.1.23		90 mm dia. Class 20	m	0		Rate Only
6.1.24		110 mm diam. Class 12	m	0		Rate Only
6.1.25		110 mm dia. Class 16	m	0		Rate Only
6.1.26		110 mm dia. Class 20	m	0		Rate Only
	8.2.1	<u>PVC-m Pipes</u>				
6.1.27		63 mm diam. Class 20	m	3 834		
	8.2.1	<u>STEEL PIPE</u>				
6.1.28		65 mm dia. Klambon pipe	m	0		Rate Only
6.1.29		100 mm dia. Klambon pipe	m	0		Rate Only
Total Carried Forward to Summary						

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ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
7	SANS 1200 L	PIPE FITTINGS AND SPECIALS				
7.1.	8.2.2 PSL 8.2.4 PSL 8.2.5	<u>Supplying, Laying and Bedding of Specials complete with Couplings as follows:-</u>				
	8.2.4 PSL 8.2.6	<u>Supply, lay, joint and bed including cutting pipes where required for the following:</u>				
		<u>HDPE Pipe Bends (Class 10)</u>				
7.1.1		50mm dia. x 45° bends.	No.	50		
7.1.2		50mm dia. x 90° bends.	No.	70		
7.1.3		63mm dia. X 11.25° bends.	No.	60		
7.1.4		63mm dia. x 22.5° bends.	No.	50		
7.1.5		63mm dia. x 45° bends.	No.	65		
7.1.6		63mm dia. x 90° bends.	No.	50		
		<u>PVC Pipe Bends</u>				
7.1.7		63mm dia. X 11.25° bends.	No.	150		
7.1.8		63mm dia. x 22.5° bends.	No.	220		
7.1.9		63mm dia. x 45° bends.	No.	215		
7.1.10		63mm dia. x 90° bends.	No.	210		
		<u>Flanged Reducers</u>				
7.1.11		75mm HPDe x 63mm HPDe reducing TEE	No.	0		Rate Only
7.1.12		63mm HPDe x 50mm HPDe reducing TEE	No.	5		
7.1.13		50mm HPDe x 40mm HPDe reducing TEE	No.	5		
7.1.14		50mm HPDe x 32mm HPDe reducing TEE	No.	5		
7.1.15		75mm uPVC x 63mm HPDe reducing TEE	No.	0		Rate Only
7.1.16		75mm uPVC x 50mm HPDe reducing TEE	No.	0		Rate Only
7.1.17		75mm uPVC x 40mm HPDe reducing TEE	No.	0		Rate Only
7.1.18		75mm uPVC x 32mm HPDe reducing TEE	No.	0		Rate Only
		<u>ADAPTORS</u>				
7.1.19		65mm dia. X 11.25° bends.	No.	0		Rate Only
7.1.20		65mm dia. x 22.5° bends.	No.	0		Rate Only
7.1.21		65mm dia. x 45° bends.	No.	0		Rate Only
7.1.22		65mm dia. x 90° bends.	No.	0		Rate Only
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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
8		VALVES				
		<u>Valves</u>				
8,1	8.2.3	<u>Extra-over 8.2.1 for the supplying, fixing and Bedding of Valves as indicated below:</u>				
8.1.1	PSL 3.13.2	<u>Supply and install the following flanged Resilient seal Gate valves, PN 16 with non-rising spindle, Clockwise closing, 10 T-bar extension handle for cap top cast iron gate valve, including all gaskets, bolts, nuts and washers: Rate to include chambers as per the provided standard drawing</u>				
8.1.1.1		50mm	No.	3		
8.1.1.2		63mm	No.	5		
8.1.1.3		75mm	No.	0		Rate Only
8.1.1.4		100mm	No.	0		Rate Only
		<u>Air Valves</u>				
8,2	8.2.5	Supply and install Air Valve assemblies for 50ND Air Valve. Rate to include complete chambers as per details on drawing provided				
8.2.1		63mm	No.	8		
		<u>Scour Valves</u>				
8,3	8.2.5	Supply and install Scour Valve assemblies with wedge gate valve: Rate to include complete chambers as per details on standard drawing provided.	No.	6		
Total Carried Forward to Summary						

OR TAMBO DISTRICT MUNICIPALITY

LUKHALANE WATER SUPPLY

SECTION 9 : RESERVOIRS

ORTDM SCMU 06 – 20/21

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
9		RESERVOIR				
9,1	8.2.3 S13A PGY	Supply and install 500kl Galaxy reservoir complete. Rate to include for all excavations, concrete bases, inlet and outlet pipes, overflow pipe, gate valves, ball valve, disinfection, associated chambers, thrust blocks, etc.	Prov Sum	1	R 985 844,00	R 985 844,00
9.1.1.		Contractor's mark-up on Item 9.1 above	%	R 985 844,00		
9,2	8.2.3 S13A PGY	Refurbishment of 20kl steel reservoir. Rate to include for all excavations, inlet and outlet pipes, overflow pipe, gate valves, ball valve, disinfection, associated chambers, thrust blocks, etc.	Sum	1		
9,3		<u>Spring Capping, Fencing and Berm</u>				
9.3.1		Construct spring protection structure complete. Rate to include excavation, galvanized pipes, nipples, elbows, sockets, rockfill, geotextile, air vents, etc as per the drawing provided.	Sum	1		
9,4		<u>Stream Crossings</u>				
9.4.1		Allow for stream crossings. Rate to include excavation, dealing with water, concrete works, pipe sleeves, etc.	Sum	1		
Total Carried Forward to Summary						

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ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
10	SABA 1200 GA	<u>SECTION 10: CONCRETE SMALL WORKS</u>				
10,1	GA	<u>ANCILLARIES & PRECAST ELEMENTS</u>				
10.1.1		Pipeline markers as per detail drawing	No.	50		
10.1.2		Valve markers as per detail drawing	No.	50		
10.2		<u>STANDPIPES</u>				
10.2.1		Supply and install standpipe complete including HDPE saddle, 32mm HDPE pipe(20m), tap and galvanised riser pipe, concrete work including shuttering, elbows, nipples, etc, as per drawing provided.	No.	15		
10.2.2		Refurbishment of existing standpipes including all necessary work to be done to a engineers satisfactory.	No.	1	R 45 000,00	R 45 000,00
10.2.3		Contractor's mark-up on Item 10.2.2 above	%	R 45 000,00		
Total Carried Forward to Summary						

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
11		FENCING:				
11,1		Supply and install 12 x 3 x 2.4m high concrete palisade fence panels. Rate to include horizontal cross section members of 45 x 40 x 10 x 2.5 lipped angle (Std 3m section), 8 x 25mm cup square bolts, 8mm Anti Vandal Sheer Nut, Middle / End / Corner Post brackets (to be embedded in 600mm deep 20Mpa concrete), fish plates, wall pins, fibre glass - post caps, etc.	m	40		
11,2		Supply and install 1 x 5m double gate for opening.	No	2		
Total Carried Forward to Summary						

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SECTION	DESCRIPTION	AMOUNT (RAND)
1	PRELIMINARY AND GENERAL	
2	SITE CLEARANCE	
3	PIPE TRENCHES	
4	GABIONS AND PITCHING	
5	BEDDING	
6	PRESSURE PIPELINES	
7	PIPE SPECIALS & FITTINGS	
8	VALVES	
9	STORAGE RESERVOIR	
10	SMALL WORKS	
11	FENCING	
TOTAL OF SECTIONS (VAT EXCLUDED)		
ADD: CONTINGENCIES @ 5%		
SUB-TOTAL		
ADD: VAT @ 15%		
TOTAL CARRIED TO C1.1 : FORM OF OFFER		