

OR TAMBO DISTRICT MUNICIPALITY

MTHATHA CENTRAL CORRIDOR REGIONAL BULK WATER SUPPLY – PHASE 1

CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SECTION 1: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
1	SANS 1200 A	PRELIMINARY AND GENERAL - BULKLINE - CONTRACT 1				
1.1	8.3	Scheduled Fixed-Charge and Value-Related Items				
1.1.1	8.3.1	Contractual Requirements	Sum	1		
		Provision for the site facilities:				
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 of the project	Sum	1		
1.1.6		Compliance with the OHS Act regulations (Rate to include for risk assessment of Ependemic and other adjustments to ensure compliance for the assignment including maintenance of a register for workers contacts.)	Sum	1		
1.1.7		Preparation of a OHS Plan	Sum	1		
		Costs of medical certificate and Medical Surveillance including Screenings of Employees.				
1.1.8		a) Initial (baseline) medical examinations	No.	25		
1.1.9		b) Exit examinations	No.	25		
		Environmental Managemant				
1.1.10		a) Compliance with Environmental Management plan including waste management Bins	Sum	1		
1.1.11		Provision of survey equipment for the use of the Engineer	No	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 maintainance of the site facilities				
1.2.3	8.4.2.1	a) Facilities for the Engineer	Sum	1		
1.2.4	8.4.2.2	b) Facilities for the Contractor	Sum	1		
1.2.5		General responsibilities and other time related abligations .	Sum	1		
Carried Forward						

OR TAMBO DISTRICT MUNICIPALITY

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MIS 535 – 774 A

SECTION 1: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
1.2.6		Compliance with the OHS Act regulations (Rate to include risk assessment for Ependemic and other adjustments to ensure compliance for the assignment including maintenance of a register for workers contacts.)	Sum	1		
1.2.7		Contractors supervision for the duration of the contract	Month	10		
1.2.8		Full time Health and Safety Officer for the duration of the contract	Month	10		
1.3		SUMS STATED PROVISIONALLY BY THE ENGINEER				
1.3.1		Employment of CLO for the duration of the Contract (R8500 pm plus R500 pm cellphone allowance)	Prov. Sum	1	R90 000,00	R90 000,00
1.3.2		Contractors markup on item 1.3.1	%	R90 000,00		
1.3.5		Allow for 3x Civil Engineering trainee	Prov. Sum	1	R285 000,00	R285 000,00
1.3.6		Contractors markup on item 1.3.5	%	R285 000,00		
1.3.7		Allow for accommodation for site personnel for the full duration of the contract	Prov. Sum	1	100 000,00	R100 000,00
1.3.8		Contractors markup on item 1.3.7	%	R100 000,00		
1.3.9		Provision of Laptop computers and printer for the use of the RE and ARE for the full duration of the contract	Prov. Sum	1	20 500,00	R20 500,00
1.3.10		Contractors markup on item 1.3.9	%	R20 500,00		
1.3.11		Allow for Data and Airtime to the Engineers site personnel for the duration of the Contract	Prov. Sum	1	R20 000,00	R20 000,00
1.3.12		Contractors markup on item 1.3.11	%	R20 000,00		
1.3.13		Provision of Engineering Survey as instructed by the Engineer	Prov. Sum	1	R30 000,00	R30 000,00
1.3.14		Contractors markup on item 1.3.13	%	R30 000,00		
1.3.15		Allow for the provision of the Engineer's Bakkie for the duration of the Contract. The amount allowed for is inclusive of fuel	Prov. Sum	1	R200 000,00	R200 000,00
1.3.16		Contractors markup on item 1.3.15	%	R200 000,00		
Carried Forward						

OR TAMBO DISTRICT MUNICIPALITY

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MIS 535 – 774 A

SECTION 1: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
1.3.17		Payment of PSC members for attendance of meetings for the duration of the contract (10 No members at R500 per member per meeting)	Prov. Sum	1	R50 000,00	R50 000,00
1.3.18		Contractors markup on item 1.3.17	%	R50 000,00		
1.3.19		Amount provisionally allowed for the procurement and management of SMME contractors	Prov. Sum	1	R100 000,00	R100 000,00
1.3.20		Management fee on item 1.3.19	%	R100 000,00		
1.3.21		Additional allowance for full time site supervision (Assistant Resident Engineer) for the full duration of the contract	Prov. Sum	1	R1 155 060,00	R1 155 060,00
1.3.22		Contractors markup on item 1.3.21	%	R1 155 060,00		
1.3.23		Additional Allowance for Occupational Health and Safety Agent Monitoring for the duration of the contract	Prov. Sum	1	R250 000,00	R250 000,00
1.3.24		Handling costs and profit in respect of 1.3.23	%	R250 000,00		
1.3.25		Additional Allowance for Institutional Social Development (ISD Agent) Services for the duration of the Contract	Prov. Sum	1	R250 000,00	R250 000,00
1.3.26		Handling costs and profit in respect of 1.3.25	%	R250 000,00		
1.3.27		Additional Allowance for Environmental Control Officer as instructed by Engineer	Prov. Sum	1	R250 000,00	R250 000,00
1.3.28		Handling costs and profit in respect of 1.3.27	%	R250 000,00		
		<u>Temporary Works</u>				
1.3.29		Maintain all roads where construction activities will take place	Prov. Sum	1	R50 000,00	R50 000,00
1.4	8.7	<u>Dayworks</u>				
1.4.1		Foreman	hr	75		
1.4.2		Skilled	hr	75		
1.4.3		Semi-skilled	hr	75		
1.4.4		Unskilled	hr	75		
Total Carried Forward To Summary						

OR TAMBO DISTRICT MUNICIPALITY

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CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SECTION 2 : SITE CLEARANCE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
2	SANS 1200 C	SITE CLEARANCE - BULKLINE - CONTRACT 1				
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	6 060		
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.	10		
2.1.3	8.2.10	Remove topsoil in 600mm wide strip to depth of 150mm, stockpile, maintain and reinstate.	m ³	636		
2.1.4	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	50		
2.1.4.2		Fill material	m ³	25		
2.1.4.3		Relocation of existing fences	km	1		
2.1.4.4		Working adjacent to existing services (stormwater pipes, stormwater v-drains, water pipes and electrica and telecommunication services)	m	303		
2.1.4.5		Working parallel to existing services (stormwater pipes, stormwater v-drains, water pipes and electrica and telecommunication services)	No	33		
Total Carried Forward To Summary						

OR TAMBO DISTRICT MUNICIPALITY

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CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SECTION 3 : PIPE TRENCHES

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
3	SANS 1200 D & 1200 DB	PIPE TRENCHES - BULKLINE - CONTRACT 1				
3,1	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 350mm ND for total trench depth:</u>				
3.1.1.1.1		Exceeding 0,0m but not exceeding 1.5m	m³	12 726		
3.1.1.1.2		Exceeding 1.5m but not exceeding 3.5m	m³	1 909		
3.1.1.1.3		Extra over item for 3.1.1.1.1 for hard rock (Prov)	m³	3 818		
3.1.1.1.4		Extra over item for 3.1.1.1.1 for bolder excavation (Prov)	m³	1 273		
3.1.1.1.5		Extra over item for 3.1.1.1.1 for blasting to remove rock	Prov Sum	1	R50 000,00	R50 000,00
3.2		<u>Slope Protection (Provisional)</u>				
3.2.1		Earth diversion berms as instructed by the Engineer	No.	121		
Total Carried Forward to Summary						

OR TAMBO DISTRICT MUNICIPALITY

MTHATHA CENTRAL CORRIDOR REGIONAL BULK WATER SUPPLY – PHASE 1

CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SECTION 4: GABIONS AND PITCHING

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
4	SANS 1200 DK	GABIONS AND PITCHING - BULKLINE - CONTRACT 1				
4,1	8,2	Excavate materials for gabions	m ³	333		
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	200		
4.2.2	8.2.1	Cavities filled with 15MPa concrete	m ²	27		
4,3	8.2.2	<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	33		
4.3.1.2		3 x 2 x 1m with 80 x 100mm galv. mesh (Reno Mattress)	m ³	27		
4,4	8.2.4	<u>Geotextile (Type AG 200) placed where ground water seepage occurs:</u>				
4.4.1	8.2.4	Below gabion mattresses	m ²	100		
Total Carried Forward To Summary						

OR TAMBO DISTRICT MUNICIPALITY

MTHATHA CENTRAL CORRIDOR REGIONAL BULK WATER SUPPLY – PHASE 1

CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SECTION 5 : BEDDING

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
5	SANS 1200 LB	BEDDING - BULKLINE - CONTRACT 1				
5,1	8.2.1	<u>Provision of Bedding from Trench Excavation</u>				
5.1.1	8.2.1 (a)	Selected granular material	m ³	10 181		
5.1.2	8.2.1 (b)	Selected fill material	m ³	6 787		
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	3 054		
5.2.1.2	8.2.2.1 (b)	Selected fill material	m ³	2 036		
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	1 018		
5.2.2.2	8.2.2.3 (b)	Selected fill material	m ³	679		
5,3	8.2.3	<u>Concrete Bedding Cradle (Provisional)</u>				
5.3.1		15/19 Grade concrete	m ³	3		
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. Refer to standard detail	m ³	22		
5,5	8.2.4	<u>Thrust Blocks</u>				
5.5.1		Construct thrust blocks in 25/19 Grade concrete including all preparation work and formwork required. Refer to standard detail	m ³	37		
5,6		Suspension River Crossing				
5.6.1		Construct the suspended river crossing supported with reinforced concrete pillars in 25/19 Grade concrete including all preparation work and formwork required. Refer to standard detail	Sum	1		
Total Carried Forward To Summary						

OR TAMBO DISTRICT MUNICIPALITY

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CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SECTION 6 : MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
6	SANS 1200 L	MEDIUM PRESSURE PIPELINES - BULKLINE - CONTRACT 1				
6,1	8.2.1	<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>				
		<u>uPVC Pipes</u>				
6.1.1		90 mm dia. CL 12	m	1		Rate Only
6.1.2		90 mm dia. CL 16	m	1		Rate Only
6.1.3		110 mm dia. CL 9	m	1		Rate Only
6.1.4		110 mm dia. CL 12	m	1		Rate Only
6.1.5		160 mm dia. CL 9	m	1		Rate Only
6.1.6		160 mm dia. CL 16	m	1		Rate Only
6.1.7		200 mm dia. CL 9	m	1		Rate Only
6.1.8		200 mm dia. CL 16	m	1		Rate Only
6.1.9		250 mm dia. CL 9	m	1		Rate Only
6.1.10		250 mm dia. CL 16	m	2 490		
6.1.11		315 mm dia. CL 9	m	1		Rate Only
6.1.12		315 mm dia. CL 16	m	3 570		
6,2		Pipeline Markers as per standard detail	No.	61		
6,3		Provision for relocation and fixing of damaged pipeline during construction period.	Prov. Sum	1	R266 495,62	R266 495,62
Total Carried Forward to Summary						

OR TAMBO DISTRICT MUNICIPALITY

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CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SECTION 7 : PIPE SPECIALS AND FITTINGS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
7	SANS 1200 L	PIPE FITTINGS AND SPECIALS - BULKLINE - CONTRACT 1				
	8.2.2	<u>Extra-over 8.2.1 for the Supplying, Laying and Bedding of Specials complete with Couplings as follows:-</u>				
	8.2.4	<u>Supply, lay, joint and bed including cutting pipes where required for the following:</u>				
7,1		<u>uPVC Pipe Bends (CL 25)</u>				
7.1.1		90mm dia 11.25° bends.	No.	1		Rate Only
7.1.2		90mm dia 22.5° bends.	No.	1		Rate Only
7.1.3		90mm dia 45° bends.	No.	1		Rate Only
7.1.4		90mm dia. 90° bends.	No.	1		Rate Only
7.1.5		160mm dia 11.25° bends.	No.	1		Rate Only
7.1.6		160mm dia 22.5° bends.	No.	1		Rate Only
7.1.7		160mm dia 45° bends.	No.	1		Rate Only
7.1.8		160mm dia. 90° bends.	No.	1		Rate Only
7.1.9		200mm dia 11.25° bends.	No.	1		Rate Only
7.1.10		200mm dia 22.5° bends.	No.	1		Rate Only
7.1.11		200mm dia 45° bends.	No.	1		Rate Only
7.1.12		200mm dia. 90° bends.	No.	1		Rate Only
7.1.11		250mm dia 11.25° bends.	No.	10		
7.1.12		250mm dia 22.5° bends.	No.	10		
7.1.13		250mm dia 45° bends.	No.	5		
7.1.14		250mm dia. 90° bends.	No.	5		
7.1.15		315mm dia 11.25° bends.	No.	8		
7.1.16		315mm dia 22.5° bends.	No.	7		
7.1.17		315mm dia 45° bends.	No.	4		
7.1.18		315mm dia. 90° bends.	No.	4		
7,2		<u>PVC Reducers (CL 25)</u>				
7.2.1		110mm x 90mm	No.	1		Rate Only
7.2.2		160mm x 110mm	No.	1		Rate Only
7.2.3		250mm x 160mm	No.	1		
7.2.4		250mm x 200mm	No.	1		
Carried Forward						

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MIS 535 – 774 A

SECTION 7 : PIPE SPECIALS AND FITTINGS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
7.2.5		250mm x 315mm	No.	2		
7.2.6		400mm x 315mm	No.	1		Rate Only
7,3		<u>UPVC Equal Tees (CL 25)</u>				
7.3.1		90mm x 90mmx 90mm	No.	1		Rate Only
7.3.2		110mm x 110mm x 110mm	No.	1		Rate Only
7.3.3		160mm x 160mmx 160mm	No.	1		Rate Only
7.3.4		250mm x 250mm x 250mm	No.	1		
7.3.3		315mm x 315mmx 315mm	No.	1		
7,4		<u>UPVC UN-Equal Tees (CL 25)</u>				
7.4.1		110mm x 90mmx 110mm	No.	1		Rate Only
7.4.2		160mm x 90mmx 160mm	No.	1		Rate Only
7.4.3		160mm x 110mmx 160mm	No.	1		Rate Only
7.4.4		250mm x 160mmx 250mm	No.	1		
7.4.4		315mm x 250mmx 315mm	No.	1		
Total Carried Forward To Summary						

OR TAMBO DISTRICT MUNICIPALITY

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MIS 535 – 774 A

SECTION 8 : VALVES

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
8		VALVES :BULKLINE - CONTRACT 1				
8,1	8.2.3	<u>Extra-over 8.2.1 for the supplying, fixing and Bedding of Valves as indicated below:</u>				
		<u>Isolation Valves Complete (Class 25)</u>				
8.1.1		Supply and install the following flanged Resilient seal Gate valves complete with prefabricated valve chamber, with non-rising spindle, Clockwise closing, including all gaskets, bolts, nuts and washers as per detailed drawings. All valve chambers will be installed by SMME contractors				
8.1.1.1		90mm	No.	1		Rate Only
8.1.1.2		160mm	No.	1		Rate Only
8.1.1.3		200mm	No.	1		Rate Only
8.1.1.4		250mm	No.	4		
8.1.1.5		315mm	No.	9		
		<u>Air Valves Complete (Class 25)</u>				
8.1.2		Supply and install Air Valve assemblies Complete with valve chamber as per detailed drawings. Rate is inclusive of valve chamber, scour pipework and headwall to scour pipe.				
8.1.2.1		90mm	No.	1		Rate Only
8.1.2.2		110mm	No.	1		Rate Only
8.1.2.3		160mm	No.	1		Rate Only
8.1.2.4		200mm	No.	1		Rate Only
8.1.2.5		250mm	No.	5		
8.1.2.6		315mm	No.	7		
		<u>Scour Valves Complete Class 25</u>				
8.1.3		Supply and install Scour Valve assemblies Complete with wedge gate valve and valve chamber as per detailed drawings. Rate is inclusive of valve chamber, scour pipework and headwall to scour pipe.				
8.1.3.1		90mm	No.	1		Rate Only
8.1.3.2		110mm	No.	1		Rate Only
8.1.3.3		160mm	No.	1		Rate Only
8.1.3.4		200mm	No.	1		Rate Only
8.1.3.5		250mm	No.	6		
Carried Forward						

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MIS 535 – 774 A

SECTION 8 : VALVES

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
8.1.3.6		315mm <u>Non Return Valves Complete Class 25</u> Supply and install No Return Valve assemblies Complete and valve chamber as per detailed drawings. Rate is inclusive of valve chamber with manhole cover and non return pipework.	No.	4		
8.2		200mm <u>Bulk Water Meter Complete</u>	No.	1		Rate Only
8.3		Supply and install 315mm Water meter assemblies Complete and valve chamber as per detailed drawings. Rate is inclusive of valve chamber with manhole cover and all pipework	No.	1		Rate Only
Total Carried Forward to Summary						

OR TAMBO DISTRICT MUNICIPALITY

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CONSTRUCTION OF BULK GRAVITY MAIN FROM AREA 6 RESERVOIR TO LINDILE - CONTRACT 1

MIS 535 – 774 A

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	PRELIMINARY AND GENERAL - BULKLINE - CONTRACT 1	
2	SITE CLEARANCE - BULKLINE - CONTRACT 1	
3	PIPE TRENCHES - BULKLINE - CONTRACT 1	
4	GABIONS AND PITCHING - BULKLINE - CONTRACT 1	
5	BEDDING - BULKLINE - CONTRACT 1	
6	MEDIUM PRESSURE PIPELINES - BULKLINE - CONTRACT 1	
7	PIPE FITTINGS AND SPECIALS - BULKLINE - CONTRACT 1	
8	VALVES :BULKLINE - CONTRACT 1	
9	TOTAL OF SECTIONS (VAT EXCLUDED)	
10	ADD: CONTINGENCIES @ 10%	
11	SUB-TOTAL	
12	ADD: VAT @ 15%	
13	TOTAL PROJECT COST	

Project Duration is 10 Months**Signature :** _____

Name: _____

Capacity: _____

Company Name : _____

Date : _____