

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
1	SANS 1200 A	PRELIMINARY AND GENERAL				
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		
1.2	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		
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		
Carried Forward						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
Brought Forward						
1.2.7		Contractors supervision for the duration of the contract	Sum	1		
1.2.8		Full time Health and Safety Officer for the duration of the contract	Sum	1		
1.3		Sums Stated Provisionally by the Engineer				
1.3.1		Employment of CLO for the duration of the Contract (R9000 pm plus R500 pm cellphone allowance)	Prov. Sum	1	R95 000,00	R95 000,00
1.3.2		Contractors markup on item 1.3.1	%	R95 000,00		
1.3.5		Allow for 3x Civil Engineering trainee	Prov. Sum	1	R300 000,00	R300 000,00
1.3.6		Contractors markup on item 1.3.5	%	R300 000,00		
1.3.7		Allow for accommodation for site personnel for the full duration of the contract	Prov. Sum	1	R100 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	R60 000,00	R60 000,00
1.3.10		Contractors markup on item 1.3.9	%	R60 000,00		
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	R300 000,00	R300 000,00
1.3.16		Contractors markup on item 1.3.15	%	R300 000,00		
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		
Carried Forward						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
Brought Forward						
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		
Temporary Works						
1.3.29		Maintain all roads where construction activities will take place	Prov. Sum	1	R50 000,00	R50 000,00
1.4		Plant and materials				
		The Employer shall not supply any plant or materials.				
1.4.1	C3.4.4	All materials shall comply with the requirements of the South African Bureau of Standards. Supply a 4x4 Single Cab Bakkie with Canopy, Raised Body mounted with Roof Rack carrier for pipe loading and Fully Branded O. R. Tambo District Municipality for Operations and Maintenance Section.	Prov. Sum	1	R800 000,00	R800 000,00
		Handling costs and profit in respect of 1.4.1	%	R800 000,00		
1.4.2		Provisional Allowance for Accredited Training	Prov. Sum	1	R250 000,00	R250 000,00
1.4.3		Handling costs and profit in respect of 1.4.2	%	R250 000,00		
1.5	8.7	Dayworks				
1.5.1		Foreman	hr	75		
1.5.2		Skilled	hr	75		
1.5.3		Semi-skilled	hr	75		
1.5.4		Unskilled	hr	75		
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
2	SANS 1200 C	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	17 041		
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	1 789		
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 electrical and telecommunication services)	m	852		
2.1.4.5		Working parallel to existing services (stormwater pipes, stormwater v-drains, water pipes and electrical and telecommunication services)	No	33		
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
3	SANS 1200 D & 200 DB	PIPE TRENCHES				
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	m ³	17 894		
3.1.1.1.2		Exceeding 1.5m but not exceeding 3.5m	m ³	4 474		
3.1.1.1.3		Extra over item for intermediate excavation (Prov)	m ³	1 119		
3.1.1.1.4		Extra over item for 3.1.1.1.1 for hard rock (Prov)	m ³	5 369		
3.1.1.1.5		Extra over item for 3.1.1.1.1 for bolder excavation (Prov)	m ³	1 790		
3.1.1.1.6		Extra over item for 3.1.1.1.1 for blasting to remove rock	Prov Sum	1	R300 000,00	R300 000,00
3.2		<u>Slope Protection (Provisional)</u>				
3.2.1		Earth diversion berms as instructed by the Engineer	No.	342		
Total Carried Forward to Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
4	SANS 1200 DK	GABIONS AND PITCHING				
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 1 m with 80 x 100mm galv. mesh	m ³	25		
4.3.1.2		3 x 2 x 1 m with 80 x 100mm galv. mesh (Reno Mattress)	m ³	10		
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						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
5	SANS 1200 LB	BEDDING				
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	14 315		
5.1.2	8.2.1 (b)	Selected fill material	m ³	9 545		
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	4 300		
5.2.1.2	8.2.2.1 (b)	Selected fill material	m ³	2 870		
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	1 432		
5.2.2.2	8.2.2.3 (b)	Selected fill material	m ³	955		
5,3	8.2.3	<u>Concrete Bedding Cradle (Provisional)</u>				
5.3.1		15/19 Grade concrete	m ³	6		
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	9		
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
6	SANS 1200 L	MEDIUM PRESSURE PIPELINES				
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>HDPE Pipes</u>				
6.1.1		50 mm dia. PN 10	m	490		
6.1.2		50 mm dia. PN 12.5	m	8 000		
6.1.3		63 mm dia. PN 10	m	50		
6.1.4		63 mm dia. PN 12.5	m	1 700		
6.1.5		75 mm dia. PN 10	m	30		
6.1.6		75 mm dia. PN 12.5	m	1 500		
		<u>uPVC Pipes</u>				
6.1.7		90 mm dia. CL 9	m	100		
6.1.8		90 mm dia. CL 12	m	1 440		
6.1.9		110 mm dia. CL 9	m	50		
6.1.10		110 mm dia. CL 12	m	786		
6.1.11		160 mm dia. CL 9	m	90		
6.1.12		160 mm dia. CL 12	m	888		
6.1.9		200 mm dia. CL 9	m	150		
6.1.10		200 mm dia. CL 12	m	720		
6.2		Rising Main pipeline from the proposed Borehole				
6.2.1		160 mm dia. CL 20	m	2 000		
6.3	8.2.16	Pipeline Markers as per standard detail	No.	170		
6.4		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 standard drawings.	No.	90		
6.5		Install Aqua Flow limiters where instructed by the Engineer complete as per detailed drawings.	No.	90		
6.6		Provision for relocation and fixing of Damaged pipeline during construction period.	Pro Sum	1	R150 000,00	R150 000,00
6.7		Supply and install Break Pressure Tank valve complete with pipework set .	No.	1		
6.8		Supply and Install Bulk Mechanical Meter Complete with Chamber	No	3		
Total Carried Forward to Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
7	SANS 1200 L	PIPE FITTINGS AND SPECIALS				
	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		75mm dia 11.25° bends.	No.	1		
7.1.2		75mm dia 22.5° bends.	No.	1		
7.1.3		75mm dia 45° bends.	No.	1		
7.1.4		75mm dia. 90° bends.	No.	1		
7.1.5		90mm dia 11.25° bends.	No.	1		
7.1.6		90mm dia 22.5° bends.	No.	1		
7.1.7		90mm dia 45° bends.	No.	5		
7.1.8		90mm dia. 90° bends.	No.	5		
7.1.9		110mm dia 11.25° bends.	No.	1		
7.1.10		110mm dia 22.5° bends.	No.	1		
7.1.11		110mm dia 45° bends.	No.	5		
7.1.12		110mm dia. 90° bends.	No.	2		
7.1.11		160mm dia 11.25° bends.	No.	7		
7.1.12		160mm dia 22.5° bends.	No.	7		
7.1.13		160mm dia 45° bends.	No.	7		
7.1.14		160mm dia. 90° bends.	No.	7		
7.1.15		200mm dia 11.25° bends.	No.	5		
7.1.16		200mm dia 22.5° bends.	No.	5		
7.1.17		200mm dia 45° bends.	No.	5		
7.1.18		200mm dia. 90° bends.	No.	5		
7,2		<u>HDPE Pipe Bends (PN12.5)</u>				
7.2.1		50mm dia. x 45° bends.	No.	18		
7.2.2		50mm dia. x 90° bends.	No.	30		
7.2.3		63mm dia. x 45° bends.	No.	10		
					Carried Forward	

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
				Brought Forward		
7.2.4		63mm dia. x 90° bends.	No.	5		
7.2.5		75mm dia. x 45° bends.	No.	5		
7.2.6		75mm dia. x 90° bends.	No.	5		
7,3		<u>uPVC Reducers (CL 12)</u>				
7.3.1		90mm x 75mm	No.	5		
7.3.2		110mm x 90mm	No.	5		
7.3.3		160mm x 110mm	No.	3		
7.3.4		200mm x 160mm	No.	1		
7.3.5		90mm x 50mm	No.	1		
7,4		<u>HDPe Reducers (CL 12)</u>				
7.4.1		90mm x 75mm	No.	1		
7.4.2		75mm x 63mm	No.	5		
7.4.3		63mm x 50mm	No.	13		
7,5		<u>UPVC Equal Tees (CL 12)</u>				
7.5.1		50mm x 50mm x 50mm	No.	2		
7.5.2		63mm x 63mm x 63mm	No.	2		
7.5.3		75mm x 75mm x 75mm	No.	2		
7.5.4		90mm x 90mm x 90mm	No.	2		
7.5.5		110mm x 110mm x 110mm	No.	2		
7.5.6		160mm x 160mm x 160mm	No.	1		
7.5.7		200mm x 200mm x 200mm	No.	1		
7,6		<u>UPVC UN-Equal Tees (CL 12)</u>				
7.6.1		90mm x 90mm x 50mm	No.	2		
7.6.2		90mm x 90mm x 63mm	No.	4		
7.6.3		90mm x 90mm x 75mm	No.	5		
7.6.4		90mm x 75mm x 90mm	No.	5		
7.6.5		110mm x 90mm x 110mm	No.	5		
7.6.6		160mm x 110mm x 160mm	No.	2		
7.6.7		200mm x 160mm x 200mm	No.	2		
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
8		VALVES				
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 16)</u> 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						
8.1.1.1		50mm	No.	18		
8.1.1.2		63mm	No.	3		
8.1.1.3		75mm	No.	2		
8.1.1.4		90mm	No.	2		
8.1.1.5		110mm	No.	1		
8.1.1.4		160mm	No.	1		
8.1.1.5		200mm	No.	1		
		<u>Air Valves Complete (Class 25)</u> 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						
8.1.2.1		75mm	No.	1		
8.1.2.2		90mm	No.	1		
8.1.2.3		110mm	No.	1		
8.1.2.4		160mm	No.	9		
8.1.2.5		200mm	No.	1		
		<u>Scour Valves Complete Class 25</u> 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						
8.1.3.1		75mm	No.	2		
8.1.3.2		90mm	No.	2		
8.1.3.3		110mm	No.	1		
8.1.3.4		160mm	No.	5		
8.1.3.5		200mm	No.	1		
Total Carried Forward to Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
9		GROUNDWATER SOURCE DEVELOPMENT (BOREHOLE)				
9.1		<u>Siting and Drilling of One Production Borehole</u>				
9.1.1		Siting and drilling of Two (2) borehole to produce One (1) production borehole. The scope includes siting, drilling, yield testing, water quality testing including submission of report.	Prov Sum	1	R 758 180,00	R758 180,00
9.2		<u>Borehole Pump Station Building</u>				
9.2.1		Supply all material and labour to construct borehole pump station building complete in accordance with drawing no. P2023_11_D-422, P2023_11_D-423 and P2023_11_D-424 as directed by the Engineer. The tendered rate shall be inclusive of all earthworks and relevant tests required. All materials and workmanship to conform to specifications.	Sum	1		
		<u>Mechanical and Electrical Works (Equipping of borehole pump)</u>				
9.2.2		Supply and install electrical driven borehole pumpset including a diesel driven backup Generator as per Engineers design specifications or similar approved. The rate should include the installation of all Electrical and Mechanical works (electrical panel, all pipework, water meters, valves, pump controls, etc). The contractor will also be required to compile an operations manual and train operators as identified by the Client.	Prov Sum	1	R 1 000 000,00	R1 000 000,00
9.3		<u>Provision for Eskom Power Supply (Electrification of Borehole)</u>				
9.3.1		Provision for Eskom Electrical Supply. The rate includes application, site investigations, payment to Eskom for connection.	Prov-Sum	1	R 665 494,04	R665 494,04
9.3.2		Electrical power supply from the Eskom kiosk to the borehole pump station building.	Prov Sum	1	R 192 000,00	R 192 000,00
9.4		<u>Fencing of Borehole Pump Stations</u>				
9.4.1		Supply and Install a clearview fencing for all the borehole pump stations. Refer to the standard detail drawing for clearview fence. Tendered rate to include all the site clearance, excavations, backfilling, concrete works and all the works as specified in the detail drawing	m	80		
9.4.2		Supply and Install the access gates. Refer to the standard detail drawing for clearview fence. Tendered rate to include all the site clearance, excavations, backfilling, concrete works and all the works as specified in the detail drawing	No.	1		
Carried Forward						

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Brought Forward						
9.5		Provision of access to the borehole pump station during Construction	Prov Sum	1	R200 000,00	R200 000,00
9.6		Construct of new security guard-house with Solar for Lighting at the borehole pumpstation entrance. The tendered rate shall be inclusive of all earthworks, Aluminium Gutters and all relevant tests required, components as reflected in the detail drawing. All materials and workmanship to conform to specifications.	Sum	1		
9.7		Provision of a Water Tank (10 000 L) complete with Valves, Stand with Anchor Wires and a Double Pit VIP Toilet	Sum	1		
Total Carried Forward to Summary						