

1. GENERAL INFORMATION

- 1.01 Discounts:
A 5% settling discount will be given on the standard rates as per this schedule, for payments received within 30 days from date of invoice.
Discounts will be given on the rates for testing only, when a number of samples submitted to the laboratory at the same time for the same test, is as follows:
 - 1 to 5 samples – no discount
 - 6 to 15 samples – 5% discount
 - 16 to 30 samples – 10% discount
 - Exceeds 30 samples or regular contract work – by negotiation
- 1.02 The rates for laboratory tests do not include personnel or transport costs which may be incurred in obtaining the samples.
- 1.03 **Civilab** reserve the right to alter the rates without notice.
- 1.04 A minimum charge of R90,00 (excluding 14% VAT) will be imposed on an individual test instruction, irrespective of the rates of testing as per this schedule. The normal rates of testing will be applicable if the total charge (excluding 14% VAT) exceeds R90,00.
- 1.05 The rates as per this schedule are only for services rendered during normal working hours. A surcharge will be imposed on priority testing.
- 1.06 The listed rates for testing are only for the execution of tests in accordance with the corresponding scheduled test methods. Special requirements and the testing in terms of different methods are by negotiation.
- 1.07 The standard terms and conditions as accompanying, will be applicable to all services provided.

2. PERSONNEL : MATERIALS & GEOTECHNICAL

	Test Method	Unit	Unit Rate Excl. VAT	Unit Rate Incl. VAT
2.01 Engineer/Technologist		hour	R 560.00	R 638.40
2.02 Master Technician		hour	R 360.00	R 410.40
2.03 Technician		hour	R 300.00	R 342.00
2.04 Senior Technical Assistant		hour	R 240.00	R 273.60
2.05 Technical Assistant		hour	R 180.00	R 205.20
2.06 Senior Laboratory Assistant		hour	R 135.00	R 153.90
2.07 Laboratory Assistant		hour	R 90.00	R 102.60
2.08 Driver: Light and Medium Trucks		hour	R 115.00	R 131.10
2.09 Casual Labourer		day	R 160.00	R 182.40
2.10 Professional Services (Consultants, etc.)		By arrangement		
2.11 Overnight Accommodation and Subsistence Cost		Cost + 10%		

3. TRANSPORT

3.01 Passenger Vehicle		km	R 3.75	R 4.28
3.02 Light Delivery Vehicle (1 ton)		km	R 3.50	R 3.99
3.03 Four Wheel Drive Vehicle (1 ton)		By arrangement		
3.04 Medium Truck (4 tons and 8 tons)		By arrangement		
3.05 Air, Rail and Road Transport		Cost + 10%		

4. COMPACTION CONTROL

4.01 Field Density by sand replacement method	TMH1:A10(a)	test	R 165.00	R 188.10
4.02 Field Density by nuclear method: including Moisture Content by oven drying	TMH1:A10(b)C	test	R 125.00	R 142.50
4.03 Field Density by rondavel method		By arrangement		
4.04 Extra on above for establishment of personnel on site from the laboratory: including personnel traveling time and transport charges		km	R 6.75	R 7.70
4.05 Extra on above for personnel standing time on site and excavating trial holes		Personnel rates as in 2		

Note: A minimum charge of R500,00 (excluding 14% VAT) plus the relevant establishment charge will be imposed on an individual compaction control site visit

5. CONSTRUCTION MATERIALS : SOIL

5.01 Sieve Analysis to 0,075 mm fraction	TMH1:A1,A5	test	R 170.00	R 193.80
5.02 Sieve Analysis to 0,045 mm fraction	TMH1:A1,A5	test	R 225.00	R 256.50
5.03 Hydrometer Analysis to 5 microns on < 0,425 mm material	ASTM:D422	test	R 80.00	R 91.20
5.04 Hydrometer Analysis to 2 microns on < 0,425 mm material	ASTM:D422	test	R 90.00	R 102.60
5.05 Sieve and Hydrometer Analysis to 5 microns		test	R 230.00	R 262.20
5.06 Sieve and Hydrometer Analysis to 2 microns		test	R 250.00	R 285.00
5.07 Atterberg Limits on < 0,425 mm material: untreated or treated	TMH1:A2,A3,A4	test	R 125.00	R 142.50
5.08 Extra on 5.03, 5.04 and 5.07 for preparation of < 0,425 mm material	TMH1:A1	test	R 90.00	R 102.60
5.09 Extra on 5.07 for treating, curing and preparation of < 0,425 mm material		test	R 115.00	R 131.10
5.10 Road Indicator: Sieve Analysis plus Atterberg Limits (5.01 plus 5.07)		test	R 270.00	R 307.80
5.11 Foundation Indicator: Sieve and Hydrometer Analysis plus Atterberg Limits (5.06 plus 5.07)		test	R 315.00	R 359.10
5.12 Extra on 5.01, 5.02, 5.05, 5.06, 5.10 and 5.11 for Macro Sieve Analysis on bulk sample		test	R 105.00	R 119.70
5.13 Moisture Content of sample as delivered to the laboratory	TMH A17 : 1979	test	R 30.00	R 34.20
5.14 Relative Density of soil	TMH1:A12T	test	R 125.00	R 142.50
5.15 Maximum and Minimum Density of cohesionless material	TMH1:A11T	test	R 450.00	R 513.00
5.16 Compactibility Factor (SABS 0120)	SABS 0120	test	R 170.00	R 193.80
5.17 Moisture Density Relationship: untreated material: Modified AASHTO effort	TMH1:A7	test	R 295.00	R 336.30
5.18 Moisture Density Relationship: untreated material: Proctor effort	BS1377 Part 4	test	R 295.00	R 336.30
5.19 Moisture Density Relationship: treated material: Modified AASHTO effort	TMH1:A7	test	R 350.00	R 399.00
5.20 Moisture Density Relationship: treated material: Proctor effort	BS1377 Part 4	test	R 350.00	R 399.00
5.21 Moisture Density Relationship: Texas Triaxial Test	ASTM D3397-81	By arrangement		
5.22 CBR test: single untreated specimen: excluding Moisture Density	TMH1:A8	specimen	R 105.00	R 119.70
5.23 CBR test: single treated specimen: excluding treated Moisture Density Relationship	TMH1:A9	specimen	R 130.00	R 148.20
5.24 CBR test: untreated specimens at 3 compactive efforts: excluding Moisture Density Relationship	TMH1:A8	set	R 295.00	R 336.30
5.25 CBR test: treated specimens at 3 compactive efforts: excluding treated Moisture Density Relationship	TMH1:A9	set	R 350.00	R 399.00

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	Test Method	Unit	Unit Rate Excl. VAT	Unit Rate Incl. VAT
5.26	Complete CBR test: untreated material (5.17 plus 5.24)	TMH1:A8	R 585.00	R 666.90
5.27	Complete CBR test: treated material (5.19 plus 5.25)	TMH1:A9	R 695.00	R 792.30
5.28	UCS test: single treated specimen: excluding treated Moisture Density Relationship	TMH1:A14	R 110.00	R 125.40
5.29	UCS test: treated specimens at 2 compactive efforts in duplicate: excluding treated Moisture Density Relationship	TMH1:A14	R 415.00	R 473.10
5.30	Complete UCS Test: treated material (5.19 plus 5.29)	TMH1:A14	R 765.00	R 872.10
5.31	Indirect Tensile Strength: single treated specimen: excluding Moisture Density Relationship	TMH1:A16T	R 110.00	R 125.40
5.32	Texas Triaxial Test: 7 Mohr circles: excluding Moisture Density Relationships	ASTM D3397-81	By arrangement	
5.33	Wet/Dry Durability Test: treated material: Moisture Density Relationship: Proctor effort (5.20)	TMH1:A19	R 350.00	R 399.00
5.34	Wet/Dry Durability Test: compaction and curing of specimen: excluding treated Moisture Density Relationship	TMH1:A19	R 90.00	R 102.60
5.35	Wet/Dry Durability Test: Wet/Dry cycle	TMH1:A19	R 45.00	R 51.30
5.36	Wet/Dry Durability Test: Brushing cycle: mass loss only	TMH1:A19	R 55.00	R 62.70
5.37	Wet/Dry Durability Test: Brushing cycle: mass loss and volume change	TMH1:A19	R 65.00	R 74.10
5.38	Complete Texas Ball Mill Test		R 1,680.00	R 1,915.20
5.39	Initial Consumption of Lime (pH method)	TMH1:A20	R 350.00	R 399.00
5.40	pH value of soil suspension	TMH1:A20	R 55.00	R 62.70
5.41	Conductivity of saturated soil paste and water	TMH1:A21T	R 90.00	R 102.60
5.42	Content of chemical agent of treated material by back titration method	TMH1:A15(d)	R 140.00	R 159.60
5.43	Extra on 5.42 for calibration curve	TMH1:A15(d)	R 575.00	R 655.50

6. CONSTRUCTION MATERIALS : AGGREGATES

6.01	Aggregate Grading: including Fineness Modulus and Dust Content	TMH1:B4,B13	R 150.00	R 171.00
6.02	Aggregate Crushing Value: 400kN (excluding crushing of sample through jaw crusher)	TMH1:B1	R 270.00	R 307.80
6.03	10 per cent Fines Aggregate Crushing Test (excluding crushing of sample through jaw crusher)	TMH1:B2	R 630.00	R 718.20
6.04	Flakiness	TMH1:B3T	R 215.00	R 245.10
6.05	Average Least Dimension	TMH1:B18	R 245.00	R 279.30
6.06	Bulk Density on aggregates	TMH1:B9	R 120.00	R 136.80
6.07	Dry Bulk Relative Density on > 4,75 mm aggregates	TMH1:B14	R 155.00	R 176.70
6.08	Dry Bulk Relative Density on < 4,75 mm aggregates	TMH1:B15	R 215.00	R 245.10
6.09	Apparent Relative Density on > 4,75 mm aggregates	TMH1:B14	R 125.00	R 142.50
6.10	Apparent Relative Density on < 4,75 mm aggregates	TMH1:B15	R 125.00	R 142.50
6.11	Dry Bulk, Apparent Relative Density together with Water Absorption on > 4,75 mm aggregates	TMH1:B14	R 155.00	R 176.70
6.12	Dry Bulk, Apparent Relative Density together with Water Absorption on < 4,75 mm aggregates	TMH1:B15	R 215.00	R 245.10
6.13	Apparent Relative Density	COLTO:8108(b)	R 125.00	R 142.50
6.14	Water Demand of fine aggregate	SABS SM 835:1994	R 360.00	R 410.40
6.15	Bulking of fine aggregates	SABS SM 856:1976	R 295.00	R 336.30
6.16	Soundness Test: Sodium/Magnesium Sulphate: 5 cycles per aggregate	SABS SM 839:2002	R 315.00	R 359.10
6.17	Soundness Test: Extra for each additional cycle		R 60.00	R 68.40
6.18	Soundness Test: Ethylene Glycol: 20 days visual assessment		R 265.00	R 302.10
6.19	Soundness Test: Ethylene Glycol: 28 days sieve and weighing method		R 475.00	R 541.50
6.20	Organic Impurities (standard colour test)	TMH1:B6	R 140.00	R 159.60
6.21	Shrinkage Properties of concrete aggregate	TMH1:B10	R 1,460.00	R 1,664.40
6.22	Soluble Deleterious Material in fine aggregate	TMH1:B12	R 900.00	R 1,026.00
6.23	Sand Equivalent	TMH1:B19	R 225.00	R 256.50
6.24	Presence of Sugar in fine aggregates	SABS SM 833:1994	By arrangement	
6.25	Total Water-Soluble Salts	TMH1:B16T	By arrangement	
6.26	Water-Soluble Sulphates	TMH1:B17T	By arrangement	
6.27	Total Water-Soluble Salts and Sulphates	TMH1:B16T,B17T	By arrangement	
6.28	Alkali Reactivity	SABS SM 1245:2002	By arrangement	
6.29	Treton Impact Value	TMH1:B7	By arrangement	
6.30	Light Materials Content	SABS SM 837:2002	By arrangement	
6.31	Polished Stone Value	SABS SM 848:2002	By arrangement	
6.32	Los Angeles Abrasion Test	ASTM C131-96	By arrangement	
6.33	Crushing of samples with mechanical jaw crusher: <10 kg		No charge	
6.34	Crushing of samples with mechanical jaw crusher: 10 kg to 50 kg		R 115.00	R 131.10
6.35	Crushing of samples with mechanical jaw crusher: >50 kg		R 25.00	R 28.50

7. ASPHALT AND BITUMINOUS BINDERS

7.01	Marshall Mix Design: Stability and Flow plus Bulk Relative Density and Voids Content on asphalt briquettes prepared at four (4) binder contents in triplicate	TMH1:C1	R 3,195.00	R 3,642.30
7.02	Marshall Stability and Flow: excluding preparation of asphalt briquette	TMH1:C2	R 70.00	R 79.80
7.03	Immersion Index: set of 6 briquettes (excluding Bulk Relative Density)	TMH1:C5	R 560.00	R 638.40
7.04	Binder Content	TMH1:C7 (b)	R 210.00	R 239.40
7.05	Binder Content and Aggregate Grading (6.01 plus 7.04)		R 360.00	R 410.40
7.06	Bulk Relative Density on asphalt briquette or core	TMH1:C3	R 75.00	R 85.50
7.07	Bulk Relative Density and Voids Content on asphalt briquette or core	TMH1:C3	R 250.00	R 285.00
7.08	Maximum Theoretical Relative Density: Rice's method	TMH1:C4 (a)	R 175.00	R 199.50
7.09	Indirect Tensile Strength on asphalt briquette or core		R 75.00	R 85.50
7.10	Creep Modulus on asphalt briquettes: Static	TMH1:C6T	R 395.00	R 450.30
7.11	Creep Modulus on asphalt briquettes: Dynamic		By arrangement	
7.12	Extra for preparation of briquette with asphalt: Marshall method	TMH1:C2	R 75.00	R 85.50
7.13	Extra for preparation of briquette with asphalt: LAMBS method		R 140.00	R 159.60
7.14	Extra for preparation of briquette from trial mix: Marshall method	TMH1:C2	R 135.00	R 153.90

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	Test Method	Unit	Unit Rate Excl. VAT	Unit Rate Incl. VAT
7.15	Extra for preparation of briquette from trial mix: LAMBS method	briq	R 210.00	R 239.40
7.16	Marshall Control Tests: (7.02 and 7.07 on 3 prepared asphalt briquettes plus single 7.05)	test	R 925.00	R 1,054.50
7.17	Extra for preparation of asphalt cores for testing	core	R 35.00	R 39.90
7.18	Moisture in asphalt: oven drying	TMH1:C11	R 45.00	R 51.30
7.19	Recovery of Binder from asphalt	ABSON	R 415.00	R 473.10
7.20	Bitumen Penetration	TMH1:E1	R 180.00	R 205.20
7.21	Binder Absorption: excluding apparent relative density of binder	TMH1:C4 (b)	R 365.00	R 416.10
7.22	Binder Adhesion to aggregates: Riedel & Weber test	TMH1:B11	R 350.00	R 399.00
7.23	Ductility of TMH1:Bitumen	TMH1:E4	R 505.00	R 575.70
7.24	Viscosity of Bitumen	TMH1:E8	By arrangement	
7.25	Softening Point of Bitumen Binders: Ring and Ball method	TMH1:E5	R 240.00	R 273.60
7.26	Ball Penetration and Resilience of Bitumen-Rubber Blends	SABITA:BR2T	R 180.00	R 205.20
7.27	Compression Recovery of Bitumen-Rubber Blends	SABITA:BR3T	R 205.00	R 233.70
7.28	Flow Test for Bitumen-Rubber Blends	SABITA:BR4T	R 160.00	R 182.40
7.29	Grading of Rubber Crumbs used in Bitumen-Rubber Blends	SABITA:BR6T	By arrangement	
7.30	Resilience of Rubber Crumbs used in Bitumen-Rubber Blends	SABITA:BR7T	By arrangement	
7.31	Bulk Density of Rubber Crumbs used in Bitumen-Rubber Blends	SABITA:BR8T	By arrangement	
7.32	Bitumen-Rubber Design		By arrangement	
7.33	Slurry Seal Trial Mix: Bulk Relative Density and Voids Content plus Immersion Index on 6 prepared briquettes plus Slurry Flow	design	R 2,660.00	R 3,032.40
DRILLING OF ASPHALT CORES				
7.34	Drilling 100mm diameter asphalt cores: thickness < 50mm	core	R 155.00	R 176.70
7.35	Drilling 100mm diameter asphalt cores: thickness 50mm and 100mm	core	R 220.00	R 250.80
7.36	Drilling 100mm diameter asphalt cores: thickness 100mm and 200mm	core	R 270.00	R 307.80
7.37	Extra on above for establishment of personnel on site from the laboratory: including personnel traveling time and transport charges	km	R 7.50	R 8.55
7.38	Extra on above for personnel standing time on site		Personnel rates as in 2	
8. FOUNDATION TESTING : SOILS				
8.01	Relative Density (Specific Gravity)	TMH1:A12T	R 145.00	R 165.30
8.02	Bulk Density and Moisture Content of undisturbed sample	BS 1377 Part 2	R 135.00	R 153.90
8.03	Void Ratio Determination (8.01 plus 8.02)		R 305.00	R 347.70
8.04	Settled Density and Moisture Content of slurry sample : Undrained		R 205.00	R 233.70
8.05	Settled Density and Moisture Content of slurry sample : Drained		R 335.00	R 381.90
8.06	Particle Settling Velocity per sieve fraction		R 135.00	R 153.90
8.07	Unconfined Compression Test on soil sample : failure load only : including preparation		R 265.00	R 302.10
8.08	Unconfined Compression Test on soil sample with vertical strain readings: including preparation test		R 400.00	R 456.00
TRIAxIAL TESTS (76 mm and 36 mm diameter samples)				
8.09	Unconsolidated Undrained Test: including preparation	BS 1377 Part 7	R 440.00	R 501.60
8.10	Consolidated Undrained Test: including preparation	BS 1377 Part 8	R 750.00	R 855.00
8.11	Consolidated Drained Test: including preparation	BS 1377 Part 8	R 920.00	R 1,048.80
8.12	Extra on 8.09 for additional stage of testing same specimen under new cell pressure		R 290.00	R 330.60
8.13	Extra on 8.10 and 8.11 for additional stage of testing same specimen under new cell pressure		R 495.00	R 564.30
8.14	Extra on 8.09 and 8.10 for pore water pressure measurements during	BS 1377 Part 8	R 315.00	R 359.10
8.15	Extra on 8.11 for volume change measurements during shearing	BS 1377 Part 8	R 315.00	R 359.10
8.16	Extra on 8.10 and 8.11 for time observation during consolidation, done on all consolidated shear tests		R 290.00	R 330.60
8.17	Extra on above for additional loading/unloading cycles		R 320.00	R 364.80
8.18	Ko test in triaxial cell: including preparation		by arrangement	
8.19	Extra on 8.10, 8.11 and 8.18 for consolidation and saturation of specimen in triaxial cell in excess of three days		specimen-day	R 399.00
8.20	Extra on 8.10, 8.11 and 8.18 for rates of strain with failure in excess of 9 hours		specimen-day	R 399.00
DIRECT SHEAR TESTS : SHEAR BOX				
8.21	Quick Test (undrained): shearing time not exceeding 60 minutes: including preparation		specimen	R 421.80
8.22	Slow Test (drained): including preparation		specimen	R 513.00
8.23	Extra on 8.21 and 8.22 for residual strength measurement		specimen-cycle	R 364.80
8.24	Extra on 8.22 for rates of strain with failure in excess of 9 hours		specimen-day	R 285.00
CONSOLIDATION AND SWELL TESTS				
8.25	Standard consolidation test: single loading cycle (seven 24 hours load increments) plus single unloading cycle (three load decrements): including preparation (excluding time observations and relative density)	BS 1377 Part 5	R 865.00	R 986.10
8.26	Extra on 8.25 for time observation during consolidation, per load increment		load	R 256.50
8.27	Extra on 8.25 for additional load increment/unload decrement		load	R 119.70
8.28	Double Oedometer test (8.25 at moisture content as delivered to the laboratory plus saturated test)		test	R 1,966.50
8.29	Collapse Potential rapid test: single loading cycle (5 load increments; one saturated) plus single unloading cycle (2 load decrements): including preparation (excluding time observations and relative density)	ASTM D5333-92	R 605.00	R 689.70
8.30	Swelling Pressure: including preparation	BS 1377 Part 5	R 1,035.00	R 1,179.90
8.31	Free Swell Test at 10 kPa: including preparation	ASTM D4829	R 435.00	R 495.90
8.32	Brackley Swell Test: including 2 specimens and preparation		test	R 986.10

	Test Method	Unit	Unit Rate Excl. VAT	Unit Rate Incl. VAT
PERMEABILITY AND DISPERSIVE TESTS				
8.33	Permeability: falling or constant head: including preparation	test	R 475.00	R 541.50
8.34	Permeability: constant head in triaxial cell: including preparation	ASTM D5084-90 test	R 1,095.00	R 1,248.30
8.35	Extra on 8.33 for extended permeability testing on geofabrics	day	R 240.00	R 273.60
8.36	Pinhole Test on potentially dispersive soil: modified apparatus	ASTM D4647-93 test	R 640.00	R 729.60
8.37	Crumb Test on potentially dispersive soil	test	R 65.00	R 74.10
8.38	Double Hydrometer Analysis on potentially dispersive soil	ASTM D4221-90 test	R 295.00	R 336.30
8.39	Chemical Tests on potentially dispersive soil	By arrangement		
8.40	Porosity and Infiltration	USGA test	R 1,140.00	R 1,299.60
SAMPLE COMPACTION				
8.41	Extra on compression, triaxial, shear box, swell, consolidation or permeability tests for sample compaction	specimen	R 115.00	R 131.10
9. FOUNDATION TESTING : ROCK				
9.01	Relative Density (Specific Gravity)	test	R 140.00	R 159.60
9.02	Unconfined Compression Test on rock core: failure load only (excluding preparation)	By arrangement		
9.03	Unconfined Compression Test on rock core with vertical strain readings	By arrangement		
9.04	Unconfined Compression Test on rock core with vertical and horizontal strain readings	By arrangement		
9.05	Duncan Free Swell: including preparation	test	R 390.00	R 444.60
9.06	Extra on 9.05 for time readings	test	R 160.00	R 182.40
9.07	Point Load Test on rock	ASTM D5331-95 test	R 200.00	R 228.00
9.08	Brazilian Indirect Tensile Strength Test on rock core	By arrangement		
9.09	Slake Durability Test in water: 5 cycles	test	R 625.00	R 712.50
9.10	Slake Durability Test in Ethylene Glycol: 5 cycles	test	R 715.00	R 815.10
9.11	Extra on 9.09 and 9.10 for each additional cycle	cycle	R 65.00	R 74.10
9.12	Triaxial Test on rock core	By arrangement		
9.13	Direct Shear Test on rock core or joint surfaces	By arrangement		
9.14	Preparation of rock core for testing	Cost + 10%		
9.15	Storage of core box: First 6 months or portion thereof	box	R 200.00	R 228.00
9.16	Storage of core box: Each subsequent 6 months or part thereof	box	R 105.00	R 119.70
Note: Specific requirements such as recycling during test or photography of specimens are negotiable				
10. CONCRETE				
10.01	Cube Compression Test: curing and testing of cubes delivered to the laboratory	TMH1:D1 cube	R 30.00	R 34.20
10.02	Concrete Control Test: comprehensive service including casting of cubes on site, subsequent collection from site, curing and testing in accordance with standard specifications : Minimum 6 cubes	set of 6 cubes	R 475.00	R 541.50
10.03	Extra on 10.02 for establishment of personnel on site from the laboratory for each site visit: including personnel traveling time and transport charges	km	R 6.75	R 7.70
10.04	Extra on 10.02 for personnel standing time on site	Personnel rates as in 2		
10.05	Extra on 10.02 for Slump Test on freshly mixed concrete	SABS 862-1:1994 test	R 60.00	R 68.40
10.06	Cylinder Compression Test: curing and testing of cylinders or cores delivered to the laboratory (excluding preparation)	SABS 865:1994 cylinder	R 85.00	R 96.90
10.07	Extra on 10.06 for preparation of cylinders or cores for testing	SABS 865:1994 cylinder	R 175.00	R 199.50
10.08	Indirect Tensile Strength (Brazilian) Test on cylinders or cores	cylinder	R 170.00	R 193.80
10.09	Concrete Cube Trial Mix: including preparation of trial mix, slump test, casting, curing and compression testing of three cubes	mix	R 510.00	R 581.40
10.10	Concrete Cylinder Trial Mix: including preparation of trial mix, slump test, casting, curing and compression or indirect tensile strength (Brazilian) testing of three 150mm diameter by 300mm long cylinders	mix	R 675.00	R 769.50
10.11	Extra on 10.10 for each additional three cylinders from same mix	set	R 405.00	R 461.70
10.12	Complete Mix Design: conventional methods to meet specified strength and workability requirements: including aggregate gradings, preparation and adjustment of trial mixes, slump test, casting, curing and compression testing of six cubes (excluding other special requirements)	mix	R 2,250.00	R 2,565.00
10.13	Extra on 10.12 for additional mix design: using same aggregates	mix	R 1,000.00	R 1,140.00
10.14	Extra on 10.02, 10.09 and 10.12 for each additional three cubes from same mix	set	R 220.00	R 250.80
10.15	Flexural Test: casting, curing and testing of beams	beam	R 170.00	R 193.80
10.16	Extra on above for supply of materials by the laboratory	By arrangement		
10.17	Schmidt Hammer Tests	By arrangement		
DRILLING OF CONCRETE CORES				
10.18	Setting-up at each position for vertical drilling	hole	R 185.00	R 210.90
10.19	Setting-up at each position for inclined or horizontal drilling	hole	R 230.00	R 262.20
10.20	Drilling cores with diameters of 100mm and less	SABS 865:1994 metre	R 1,380.00	R 1,573.20
10.21	Drilling cores with diameters between 100mm and 150mm	SABS 865:1994 metre	R 1,555.00	R 1,772.70
10.22	Extra on 10.20 and 10.21 for drilling through reinforcing bars	mm	R 7.00	R 7.98
10.23	Extra on above for the supply of electrical power by the laboratory (per day or part thereof)	day	R 290.00	R 330.60
10.24	Extra on above for establishment of personnel on site from the laboratory: including personnel traveling time and transport charges	km	R 6.75	R 7.70
10.25	Extra on above for personnel standing time on site	Personnel rates as in 2		
BRICKS				

	Test Method	Unit	Unit Rate Excl. VAT	Unit Rate Incl. VAT
10.26	Compressive Strength of Bricks : Burned Clay / Concrete (excluding preparation)	SABS 227:2002 / 1215-1984 specimen	R 60.00	R 68.40
10.27	Extra on 10.26 for preparation of bricks for testing	SABS 227:2002 / 1215-1984 specimen	R 60.00	R 68.40
10.28	Efflorescence	SABS 227:2002 specimen	R 60.00	R 68.40
10.29	Bulk Density	specimen	R 75.00	R 85.50
10.30	Water Absorption: 24 hour immersion test	SABS 227:2002 specimen	R 75.00	R 85.50
CONCRETE BUILDING BLOCKS				
10.31	Compressive Strength of Building Blocks (excluding preparation)	SABS 1215-1990 specimen	R 95.00	R 108.30
10.32	Extra on 10.31 for preparation of blocks for testing	SABS 1215-1990 specimen	R 280.00	R 319.20
10.33	Transverse Strength	specimen	R 95.00	R 108.30
11. PETROGRAPHIC ANALYSES AND CHEMICAL TESTS				
11.01	Petrographic analyses	By arrangement		
11.02	Exchange Properties of soil	By arrangement		
11.03	Corrosive Properties of soil : water extracts	By arrangement		
11.04	Atomic Absorption Spectrometer analyses	By arrangement		
11.05	X-Ray Emission Scans	By arrangement		
Note: Specific chemical tests are negotiable				
12. SITE INVESTIGATION				
12.01	Site Investigations and Inspections	By arrangement		
12.02	Drilling Diamond, Large Diameter Auger or Percussion Boreholes	By arrangement		
12.03	Excavating Trial Holes with mechanical excavator	By arrangement		
12.04	Excavating Trial Holes by hand digging: personnel traveling time from the laboratory, digging and standing time on site	Personnel rates as in 2		
12.05	Extra on 12.04 for the supply of electrical breaker with power generator including fuel (per day or part thereof)	day	R 450.00	R 513.00
12.06	Taking of undisturbed or disturbed samples: personnel traveling time from the laboratory, sampling and standing time on site	TMH 5 Personnel rates as in 2		
12.07	Extra on 12.03 and 12.04 for the supply of backfill to reinstate trial holes	By arrangement		
12.08	Extra on 12.03, 12.04 and 12.07 for the supply of round-foot-trench-compacto including fuel (per day or part thereof)	day	R 275.00	R 313.50
12.09	Extra on above for transport from the laboratory	Transport rates as in 3		
12.10	Full factual report on site observations and laboratory test results	By arrangement		
12.11	Supply and installation of standpipes, piezometers or other related instrumentation	By arrangement		
12.12	Seismic surveys	By arrangement		
MECHANICAL EXCAVATOR				
12.13	Mechanical Excavator (Tractor-Loader-Backactor): including operator and fuel	By arrangement		
12.14	Extra on 12.13 for the establishment of the Mechanical Excavator on site	By arrangement		
IN SITU PLATE JACKING TESTS				
12.15	Plate Cross-Jacking Apparatus: per day or part thereof	day	R 350.00	R 399.00
12.16	Extra on 12.15 for personnel traveling time from the laboratory, testing and standing time on site	Personnel rates as in 2		
12.17	Extra on 12.15 for processing test data at the laboratory	test	R 100.00	R 114.00
12.18	Extra on 12.16 for transport from the laboratory	Transport rates as in 3		
IN SITU PRESSUREMETER TESTS				
12.19	Pressuremeter Tests	By arrangement		
IN SITU PERCOLATION TESTS				
12.20	Percolation Tests	Personnel rates as in 2		
12.21	Extra on 12.20 for personnel traveling from laboratory, testing, processing test date and standing time on site	Personnel rates as in 2		
12.22	Extra on 12.21 for transport from the laboratory	Transport rates as in 3		
DYNAMIC CONE PENETROMETER TESTS				
12.23	Dynamic Cone Penetrometer Tests: per metre or part thereof (maximum 2 metres): including disposable tip	TMH 6 metre	R 125.00	R 142.50
12.24	Extra on above for establishment of personnel on site from laboratory: including personnel traveling time and transport charges	km	R 6.75	R 7.70
12.25	Extra on above for personnel standing time on site and excavating trial holes	Personnel rates as in 2		
12.26	Extra on 12.23 for processing penetration data with CSIR program (Version 5.0)	test	R 65.00	R 74.10
Note: A minimum charge of R500,00 (excluding 14% VAT) plus the relevant establishment charge will be imposed on a single site visit to perform dynamic cone penetrometer tests.				
ROAD SURVEILLANCE SERVICES				
12.27	Deflection Tests: Falling Weight Deflectometer	By arrangement		
12.28	Skid Resistance Measurements: Griptestter	By arrangement		
12.29	Skid Resistance Measurements: Portable Pendulum	By arrangement		
12.30	Longitudinal Profiling and Roughness: High Speed Laser	By arrangement		
12.31	Longitudinal Profiling and Roughness: Walking Profiler	By arrangement		
12.32	Transverse Profiling: rut measurements	By arrangement		

	Test Method	Unit	Unit Rate Excl. VAT	Unit Rate Incl. VAT
12.33	Texture Depth by sand patch method			
12.34	Ball Penetration Tests			
	TMH 6 ST1: 1984	By arrangement		
	TMH 6	By arrangement		

13. MONITORING WATER SUPPLY NETWORKS

13.01	Monitoring Water Supply networks with Insertion Flow Meter (Quadrina), Pressure Transmitters and Data Loggers (Meinecke Cosmos)	By arrangement		
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14. EQUIPMENT HIRE

14.01	Single Channel Seismograph	By arrangement		
14.02	Plate Cross-Jacking Apparatus	By arrangement		
14.03	Point Load Apparatus	By arrangement		
14.04	Dynamic Cone Penetrometer: 1m long	By arrangement		
14.05	Dynamic Cone Penetrometer: 1m to 2m long	By arrangement		
14.06	Extra on 14.04 and 14.05 for the supply of disposable tips	By arrangement		
14.07	Pocket Shear Vane	By arrangement		
14.08	Schmidt Hammer	By arrangement		
14.09	Concrete Cube Moulds: 100mm or 150mm	week	R 80.00	R 91.20
14.10	Concrete Cube Moulds: 100mm or 150mm	month	R 240.00	R 273.60
14.11	Concrete Curing Bath with thermostatic control unit	week	R 330.00	R 376.20
14.12	Concrete Curing Bath with thermostatic control unit	month	R 990.00	R 1,128.60
14.13	Concrete Slump Measuring Apparatus	week	R 45.00	R 51.30
14.14	Concrete Slump Measuring Apparatus	month	R 135.00	R 153.90
14.15	Concrete Cube Press	By arrangement		
14.16	Moisture Density Nuclear Gauge	By arrangement		
14.17	Geotechnical and Scientific Instruments	By arrangement		

Note: Regular or long term hiring rates are negotiable

15. CALIBRATION OF LABORATORY APPARATUSES

15.01	Calibration of Laboratory Apparatuses	By arrangement		
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16. CONSTRUCTION CONTROL TERRAIN LABORATORIES

16.01	Secondment of Laboratory Personnel	By arrangement		
16.02	Supply of Laboratory Apparatuses	By arrangement		