

**Standard price list for 2011 : All rates excludes VAT.**

ITEM NO	DESCRIPTION	Test Code	A UNIT	B QTY	C SUPPLY (MATERIAL)	D INSTALL (SERVICES)	E RATE (C + D)	F TOTAL (B x E)
<b>1</b>	<b>Personnel Hire Cost</b>							
1.00	Director / Senior Manager / Engineer		Hour			750.00	750.00	0.00
1.01	Master Technician		Hour			500.00	500.00	0.00
1.02	Geotechnical Engineer (Site Assess & Reporting)		Hour			On Request	On Request	0.00
1.03	Senior Technician		Hour			302.50	302.50	0.00
1.04	Technician		Hour			195.00	195.00	0.00
1.05	Assistant Technician		Hour			127.50	127.50	0.00
1.06	Laboratory Assistant		Hour			77.50	77.50	0.00
1.07	Casual Labourer		Day			175.00	175.00	0.00
1.08	Driver (LDV or Passenger Vehicle)		Hour			90.50	90.50	0.00
1.09	Driver (Medium or Heavy Truck)		Hour			192.50	192.50	0.00
1.10	Field Team ( Assistant Technician and 1x Labourer )		Hour			210.00	210.00	0.00
1.11	Over time (Night work)		Unit			1.65	1.65	0.00
1.12	Site Establishment		L/S			On Request	On Request	
1.13	Flagman		Day			202.50	202.50	0.00
1.14	Stop and Go Operator		Day			377.50	377.50	0.00
1.15	Signs		Day			On Request	On Request	0.00
1.16	Training		Day			On Request	On Request	0.00
1.17	Traffic Count		Day			On Request	On Request	0.00
<b>2</b>	<b>The Following Items are at Cost + 15%</b>							
2.7.1	Overnight Stay		Cost + 15			Cost + 15%		
2.7.2	Air, rail & road transport		Cost + 15			Cost + 15%		
2.7.3	Hire of equipment		Each			On Request	On Request	0.00
2.7.4	Toll Fees		Each			On Request	On Request	0.00
2.7.5	Border Fees		Unit			On Request	On Request	0.00
2.7.5	Consumables		Unit			On Request	On Request	0.00
2.7.6	Miscellaneous		Unit			Cost + 15%		
2.7.7	Handling Fee		Unit			Cost + 15%		
2.7.8	Copying Binding etc		Unit			On Request	On Request	On Request
2.7.9	ACSA Permits		Unit			On Request	On Request	On Request
2.8.0	Courier Cost		Unit			On Request	On Request	On Request
	<b>Transport</b>							
2.01	Motor Vehicle		km			4.05	4.05	0.00
2.02a	LDV		km			4.05	4.05	0.00
2.02b	Site Visit		Visit			On Request	On Request	0.00
2.03	LDV + 2.5 Ton Trailer		km			5.25	5.25	0.00
2.04	Truck (2-8 Ton)		km			13.50	13.50	0.00
2.05	4 Wheel drive vehicle		km			7.25	7.25	0.00
2.06	Heavy Truck (8 Ton +)		km			20.50	20.50	0.00
2.07	Auger drill		km			On Request	On Request	0.00
2.08	Deflectograph Truck To Site		km			20.50	20.50	0.00
2.09	Deflectograph Truck Testing		km			77.50	77.50	0.00
2.10	Scrim Truck To Site		km			20.50	20.50	0.00
2.11	Scrim Truck Testing		km			77.50	77.50	0.00
2.12	TLB Establishment with Low Bed		km			15.50	15.50	0.00
2.13	TLB Hire (Minimum of 9 Hours per day)		Hour			325.00	325.00	0.00

2.14	Adjustable		Test			0.00	0.00	0.00
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<b>3</b>	<b>Soils and Gravels Testing</b>							
3.01	Sieve analysis to 0.075mm	TMH1 A1 + A5	Test			195.00	195.00	0.00
3.02	Atterberg Limits	TMH1 A2 + A4	Test			145.00	145.00	0.00
3.03	Hydrometer analysis to 5mm	TMH1 A6	Test			126.50	126.50	0.00
3.04	Hydrometer analysis to 2mm	TMH1 A6	Test			105.50	105.50	0.00
3.05	Indicator Test	TMH1 A1 + A5	Test			275.00	275.00	0.00
3.06	Foundation Indicator Test	TMH1 A1 + A6	Test			370.00	370.00	0.00
3.07	Moisture/density/relationship - neat	TMH1 A7	Test			320.00	320.00	0.00
3.08	Moisture/density/relationship - treated	TMH1 A7	Test			350.00	350.00	0.00
3.09	CBR (neat)	TMH1 A8	Test			320.00	320.00	0.00
3.09b	Complete CBR and MOD	TMH1 A7 & A8	Test			640.00	640.00	0.00
3.09c	Proctor	TMH1 A7	Test			320.00	320.00	0.00
3.10	CBR (treated)	TMH1 A9	Test			350.00	350.00	0.00
3.11	Field density - sand replacement	TMH1 A10(A)	Test			205.00	205.00	0.00
3.12	Field density - nuclear equipment	TMH1 A10(B)	Test			132.50	132.50	0.00
3.13	Field density by Rondawel method	TMH1 A11 T/TP 52/83	Test			625.00	625.00	0.00
3.14	UCS	TMH1 A14	Test			460.00	460.00	0.00
3.15	Cement or lime content: EDTA method (minimum 4 test)	TMH1 A15(A)	Test			412.50	412.50	0.00
3.16	Cement or lime content: Flame photometer	TMH1 A15(B)	On Request			On Request	On Request	#VALUE!
3.16a	Cement or lime content: Single slab. Agent		Test			On Request	On Request	#VALUE!
3.16b	Cement or lime content: Two Slab Agent		Test			On Request	On Request	#VALUE!
3.17a	Cement or lime content: Back titration method	TMH1 A15(D)	Test			357.50	357.50	0.00
3.17b	Preparation of standard curve	TMH1 A15(D)	Curve			450.00	450.00	0.00
3.18	Indirect tensile strength	TMH1 A16T	Briquette			150.00	150.00	0.00
3.19	Moisture content in sample	TMH1 A17	Test			38.50	38.50	0.00
3.20	Initial lime consumption	TMH1 M5/A17T	Test			430.00	430.00	0.00
3.21	Durability test: per cycle per specimen (all Included)	TMH1 A19	12 Cycle			1,700.00	1,700.00	0.00
3.22	Extra Moulding and curing of sample	TMH1 A19	Sample			115.50	115.50	0.00
3.23	pH - Value	TMH1 A20	Test			70.00	70.00	0.00
3.24	Conductivity of Soil Paste & Water	TMH1 A21T	Test			107.50	107.50	0.00
3.25	Preparation of Sample		Sample			65.00	65.00	0.00
3.26	Compactibility Test	SABS 1200 LB 1983	Test			237.50	237.50	0.00
3.27	Lump Test (Klont test)	JT Pidgeon	Test			On Request	On Request	#VALUE!
3.28	Crumb Test	USBR 5410XX	Test			225.00	225.00	0.00
3.29	Collapse Potential (Consolidation Method 5 loads/test)		Test			765.00	765.00	0.00
3.30	5 - cycle wet dry weathering test		Per Cycle			215.00	215.00	0.00
3.31	Carbonation on stabilized layers		Test			126.50	126.50	0.00
3.32	Oedometer		Test			On Request	On Request	#VALUE!
3.33	Geotechnical Report		Report			On Request	On Request	#VALUE!
3.34	Preperation of Density hole with Hilti Drill		Prep			247.50	247.50	0.00
3.35a	Drilling of 150mm UCS Cores		Core			325.00	325.00	0.00
3.35b	Unconfined Compressive Strength of Material - Core Method (Capping Included : Coring Excluded)		Core			275.00	275.00	0.00
3.36	Specialised Testing		Test			Cost + 15%		

3.37	Phenolphthalein		Test		93.50	93.50	0.00
3.38	Oedometer- Double		Test		On Request	On Request	#VALUE!
3.39	Ethelyne Glycol Durability	LOL10 8105	Test		650.00	650.00	0.00
3.40	Radiation Test		Test		On Request	On Request	#VALUE!
<b>CENTRELINE INVESTIGATION</b>							
3.61	Photos		Photo		22.50	22.50	0.00
3.62	Profiles		Hole		62.50	62.50	0.00
3.63	Backfill Material		Hole		On Request	On Request	
3.64	Reinstatement of Test Pit with Concrete (Final Layer Only)		Hole		605.00	605.00	0.00
3.65	Cold Asphalt per Hole		Hole		275.00	275.00	0.00
3.66	Hot Asphalt per Hole (Excl. Travelling to plant)		Hole		405.00	405.00	0.00
3.67	Angelo Broom Patch		Hole		137.50	137.50	0.00
3.68	Test Pit Digging Gravel Road <1.0m		Hole		650.00	650.00	0.00
3.69	Test Pit Digging Premix Road <1.0m		Hole		3,000.00	3,000.00	0.00
3.70	Test Pit Reinstate Gravel Road <1.0m		Hole		175.00	175.00	0.00
3.71	Test Pit Reinstate Asphalt Road <1.0m		Hole		700.00	700.00	0.00
3.72	Test Pit Excavation Township Invest		Hole		850.00	850.00	0.00
3.73	Borrow Pit Sampling Photo & Profiles		Hole		250.00	250.00	0.00
3.74	Fencing of Test Pit		Hole		On Request	On Request	
3.75	Traffic Control City Road		Closure		3,850.00	3,850.00	0.00
3.76	Traffic Control Highways		Closure		5,800.00	5,800.00	0.00
3.77	Traffic Control Prov Road		Closure		4,950.00	4,950.00	0.00
3.78	Traffic Control Urban Road		Closure		3,000.00	3,000.00	0.00
3.79	Report		Report		2,500.00	2,500.00	0.00
3.80	Adjustable		Test		0.00	0.00	0.00

ITEM NO	DESCRIPTION	Test Code	UNIT	QTY	SUPPLY (MATERIAL)	INSTALL (SERVICES)	RATE (C + D)	TOTAL (B x E)
4	Aggregates Test							
4.01	Aggregate crushing value (ACV)	TMH1 B1	Test			297.50	297.50	0.00
4.02	10% Fines ACV (wet or dry)	TMH1 B2	Test			660.00	660.00	0.00
4.03	Flakiness index	TMH1 B3 (SANS 5847)	Briq			236.50	236.50	0.00
4.04	Sieve analysis Agg and Ash	TMH1 B4 + B13	Test			165.00	165.00	0.00
4.05	Organic impurities (SANS 832 : 1976)	TMH1 B6 SANS 5832	Test			160.00	160.00	0.00
4.06	Treton Impact value	TMH1 B7	Test			220.00	220.00	0.00
4.07	Loose Bulk Density	TMH1 B9	Test			126.50	126.50	0.00
4.07b	Compacted Bulk Density	TMH1 B9	Test			126.50	126.50	0.00
4.08	Riedel Weber adhesion	TMH1 B11	Test			330.00	330.00	0.00
4.09	Effect of soluble deleterious material in concrete sand	TMH1 B12	Test			841.50	841.50	0.00
4.10	Bulk Relative density: >4.75 mm	TMH1 B14 SANS 5843	Test			170.50	170.50	0.00
4.11	Bulk Relative density: <4.75 mm	TMH1 B15 SANS 5843	Test			265.00	265.00	0.00
4.12	Water soluble salts	TMH1 B16	Test			585.00	585.00	0.00
4.13	Water soluble sulphates	TMH1 B17 SANS 5850	Test			585.00	585.00	0.00
4.14	Average least dimension	TMH1 B18	Test			225.50	225.50	0.00
4.15	Sand equivalent	TMH B19 ASTM D2419 SANS 5838	Test			220.00	220.00	0.00
4.16	Soundness(magnesium sulphate method) 5 cycle (excluding preparation)	SABS 839 ASTMC33 and C88 (SANS 5839)	Test			385.00	385.00	0.00
4.17	Soundness (ethylene glycol method) 5 cycle (excluding preparation)	CRD 8C 148- 69	Test			On Request	On Request	0.00
4.18	Extra over 4.16 and 4.17 (soundness)	SABS 839	Cycle			82.50	82.50	0.00
4.19	Pan and Cylinder (seal work aggregate spread rate)		Test			220.00	220.00	0.00
4.20	Modified tray test		Test			220.00	220.00	0.00
4.21	Chloride content (SANS 830 : 1976)	SANS 5830	Test			330.00	330.00	0.00
4.22	Apparent Relative Density	Colto 8108B	Test			187.50	187.50	0.00
4.23	Methylene blue absorption	SABS 1243	Test			245.00	245.00	0.00
4.24	Polished Stone Value	BS 812	Test			On Request	On Request	0.00
4.25	Expansion Test Slag	ASMD 4792- 88	Test			990.00	990.00	0.00
4.26	Shrinkage	SANS 5836	Test			1,500.00	1,500.00	0.00
4.27	Alkali Reactive Minerals	ASTM C294 and C295	Test			1,750.00	1,750.00	0.00
4.28	Clay and Silt Content	BS812	Test			357.50	357.50	0.00
4.29	Petrographic Examination	ASTM	Test			On Request	On Request	0.00
4.30	Abrasion Resistance (Los Angeles)	SANS 5846 TX166-e	Test			On Request	On Request	0.00
4.31	Acid Test							
4.32	Sugar Test	SANS 833 : 1976						
4.33	Specialised Testing					Cost + 15%		
4.34	Adjustable		Test			0.00	0.00	0.00



ITEM NO	DESCRIPTION	Test Code	A UNIT	B QTY	C SUPPLY (MATERIAL)	D INSTALL (SERVICES)	E RATE (C + D)	F TOTAL (B x E)
5	Asphalt Test							
5.01	Marshall design (excluding materials testing) ( binder contents)	TMH1 C1	Des			3,500.00	3,500.00	0.00
5.02	Marshall control of 3 briquettes	TMH1 C2	Test			220.00	220.00	0.00
5.03	Bulk relative density	TMH1 C3	Briq			71.50	71.50	0.00
5.04a	Determination of : Rice's relative density (MTRD)	TMH1 C4	Test			176.50	176.50	0.00
5.04b	Determination of : Absorbed bitumen	TMH1 C4	Test			247.50	247.50	0.00
5.05	Immersion index	TMH1 C5	Test			330.00	330.00	0.00
5.06	Creep characteristics	TMH1 C6T	Test			365.00	365.00	0.00
5.07a	Binder content	TMH1 C7(B)	Test			230.00	230.00	0.00
5.07b	Extra over C7(b) : binder content of a tar mixture	TMH1 C7 A + B	Test			330.00	330.00	0.00
5.08	Compaction of three asphalt briquettes & 1 Sieve Analysis (Marshall method)		Test			585.00	585.00	0.00
5.09	Binder content of slurry seal	C8T	Test			308.00	308.00	0.00
5.10	Moisture in asphalt (oven drying)	C11	Test			77.00	77.00	0.00
5.11	Moisture in asphalt (Dean and Stark)	C11	Test			220.00	220.00	0.00
5.12	Asphalt control ( Full Marshall )		Test			825.00	825.00	0.00
5.13	Indirect Tensile Strength on Asphalt	ASTM D 4123	Briq			135.00	135.00	0.00
5.14	Gyratory Compaction	AASHTO TP4	Briq			385.00	385.00	0.00
5.15	Modified Lottman including compaction	D4867	Test			220.00	220.00	0.00
5.16	Modified Lottman on field specimen	D4867	Test			770.00	770.00	0.00
5.17	MMLS 3 in Laboratory		Test			14,000.00	14,000.00	0.00
5.18	MMLS 3 on Site Testing (Excludes Establishing and Generator)		Test			12,650.00	12,650.00	0.00
5.19	Specialised Testing		Test			Cost +15%		
5	Drilling Asphalt Cores							
5.40	Drilling of 100mm Asphalt Cores		mm			2.90	2.90	0.00
5.41	Drilling of 150mm Asphalt Cores		mm			3.15	3.15	0.00
5.42	Backfill of Hole (Cold mix)		Hole			22.00	22.00	0.00
5.43	Backfill of Hole with hot mix (excluding travelling to collect from plant)		Hole			55.00	55.00	0.00
5.44	Site Establishment & Setup Cost		Est			275.00	275.00	0.00
5.45	Extra over personnel rates for standing time		Hourly Rate			1.65	1.65	0.00
5.46	Adjustable		Test			0.00	0.00	0.00



ITEM NO	DESCRIPTION	Test Code	UNIT	QTY	SUPPLY (MATERIAL)	INSTALL (SERVICES)	RATE (C+D)	TOTAL (B x E)
6	Concrete Test							
6.01	Making, curing and compressive strength testing of 6 cubes on site	TMH 1-D1/SABS 861-3:94	Set			605.00	605.00	0.00
6.02	Curing and / or crushing of concrete cubes	SANS 863	Cube			32.50	32.50	0.00
6.03	Extra over 6.02 for 3 additional concrete cubes	SANS 863	Set			302.50	302.50	0.00
6.04	Slump test	SANS 862-1	Test			104.50	104.50	0.00
6.05	Trimming, curing, capping and testing of concrete blocks or cylinders	SANS 865	Samp			320.00	320.00	0.00
6.06	Concrete mix design : (EXCLUDING MATERIALS TESTING)	C&CT Methode	Des			3,800.00	3,800.00	0.00
6.07	Additional concrete mix design : using the same material as for 6.9	C&CT Methode	Des			1,250.00	1,250.00	0.00
6.08	Testing of fibre reinforced concrete beams	C&CT Methode	Each			412.50	412.50	0.00
6.09	Curing, capping and testing of bricks, blocks and pavers		per test			72.50	72.50	0.00
6.10	Covermeter testing		m2			102.50	102.50	0.00
6.11	Aggregate analysis and concrete mix designs with material	SANS 1083				4,300.00	4,300.00	0.00
6.12	BRE screed test		m2			115.50	115.50	0.00
6.13	Theoretical concrete mix design using data from above. No testing	C&CT Methode	Des			500.00	500.00	0.00
6.14	Making, curing and testing of concrete beams for flexural strength determination	SANS 864	Each			280.50	280.50	0.00
6.15	Impact Hammer Test	TMH 5	Each			90.00	90.00	0.00
6.16	Cubes for grouted stone concrete	SANS 861-3				430.00	430.00	0.00
6.17	Mortar Mix Design		Des			1,375.00	1,375.00	0.00
6.18	Flexural Strenght on concrete beams	SABS 864	Test			170.00	170.00	0.00
6.19	Transverse strenght on precast kerbs	SABS 927	Test			525.00	525.00	0.00
6.20	Water Sorpitivity	Colto 8100 ii	Test			500.00	500.00	0.00
6.21	Oxygen Parmeability	Colto 8100 i	Test			500.00	500.00	0.00
6.22	Consistancy with Vebe	SABS 862 - iii	Test			On Request	On Request	0.00
6.23	Drying Shrinking on Concrete Units (Set of 6)	SABS 1215	Test			825.00	825.00	0.00
6.24	Cement Strenght Test	SABS 749	Test			On Request	On Request	0.00
6.25	Setting Time of Cement	SABS 752	Test			On Request	On Request	0.00
6.26	Fineness of Cement	SABS EN 196-6 : 89	Test			On Request	On Request	0.00
6.27	Glass Content of Slagment	SABS 1154 - 89	Test			On Request	On Request	0.00
6.28	Water Test							
6.29	Cost of Ignition							
6	Concrete Cores - Drilling							
6.30	Drilling of 100mm Concrete Cores	SANS 865	mm			2.75	2.75	0.00
6.31	Drilling of 150mm Concrete Cores	SANS 865	mm			3.05	3.05	0.00
6.32	Drilling of 250mm to 300mm Concrete Cores	SANS 865	mm			4.15	4.15	0.00
6.32	Extra Over 6.9 & 6.10 for Steel reinforcing		mm			4.65	4.65	0.00
6.33	Setup fee for vertical drilling		Hole			324.50	324.50	0.00
6.34	Site establishment & setup cost		Est			275.00	275.00	0.00
6.35	Extra over personnel rates for standing time		Hourly Rate			275.00	275.00	0.00
6.36	Specialised Testing		Test			Cost + 15%		

6	<b>Paver and Brick Test</b>							
6.50	Compressive Strength of Bricks & Pavers	SANS 227/1215/863	Test			67.50	67.50	0.00
6.51	Extra on 6.5 for Preparation of Bricks	SANS 227	Test			135.00	135.00	0.00
6.52	Efflorescence	SANS 227	Test			66.00	66.00	0.00
6.53	Bulk Density	SANS 1083	Test			93.50	93.50	0.00
6.54	Water Absorption : 24 Hours Immersion	SANS 1083	Test			93.50	93.50	0.00
6.55	5 Hour Boiling Test		Test			On Request	On Request	0.00
6.56	Compressive Strength of Building Blocks	SABS 527	Test			104.50	104.50	0.00
6.57	Soundness of Bricks	SABS 227 - 02	Test			235.00	235.00	0.00
6.58	Water Absorption of Burnt Clay Bricks	SABS 227 -02	Test			72.50	72.50	0.00
6.59	Drying Shrinkage on Concrete Masonry Units	SABS 1215	Test			235.00	235.00	0.00
6.60	Dimension of pavers		Test			60.50	60.50	0.00
6.61	Design of Bricks		Design			3,250.00	3,250.00	0.00
6	<b>Additional Concrete services</b>							
6.80	Fire damage assessment		On Request			On Request	On Request	0.00
6.81	Depth of carbonation		On Request			On Request	On Request	0.00
6.82	Abrasion resistance on precast panels and masonry units		On Request			On Request	On Request	0.00
6.83	Potential alkali aggregate reactivity on aggregate, cement combinations	SANS 1245	Test			On Request	On Request	0.00
6.84	Concrete and mortar shrinkage	SANS 1254	Set of 3			On Request	On Request	0.00
6.85	Determination of static and dynamic modulus of elasticity ("E" value)	C&CI TM 716	Test			On Request	On Request	0.00
6.86	Creep of concrete	C&CI TM 716	Test			On Request	On Request	0.00
6.87	Determination of durability indices	C&CI TM 716	Test			On Request	On Request	0.00
6.88	Provision of site laboratory, equipment, staff and control for concrete and/or aggregate production		On Request			On Request	On Request	0.00
6.89	Pre tender site investigation to establish availability of suitable aggregate sources, potential quarry sites and borrow pits, and providing interim mix proportions		On Request			On Request	On Request	0.00
6.90	Troubleshooting and implementing quality control, quality assurance and quality management systems		On Request			On Request	On Request	0.00
6.91	Evaluation of aggregate production and implementing QC systems		On Request			On Request	On Request	0.00
6.92	Evaluation and implementation of Quality system at Batch Plants		On Request			On Request	On Request	0.00
6.93	Greenfield Investigation, Resourcing and Theoretical Mix Design for Turnkey Projects		On Request			On Request	On Request	0.00
6.94	Steel Detecting		On Request			On Request	On Request	0.00
6.95	Cutting of Beams to Cubes		Request Cube			192.50	192.50	0.00
6.96	Lost of Ignition		Test			195.00	195.00	0.00
6.97	Adjustable		Test			0.00	0.00	0.00

**ROADLAB**Civil Engineering Materials Laboratory  
(Pty) Ltd • 1945/08083/07 • VAT No. 4560115884

Established 1965

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ITEM NO	DESCRIPTION	Test Code	A UNIT	B QTY	C SUPPLY (MATERIAL)	D INSTALL (SERVICES)	E RATE (C + D)	F TOTAL (B x E)
7	Foundation Investigation							0.00
7.01	Relative Density - Soil Sample	A12T	Test			203.50	203.50	0.00
7.02	Relative Density - Rock Sample	SLT 14.5	Test			160.00	160.00	0.00
7.03	Auger Drilling		mm			On Request	On Request	0.00
7.04	Standard Penetration Test ( SPT )		Day			On Request	On Request	0.00
7.04b	Standard Penetration Test ( DPSH ) Exl Establishment		Day			5,800.00	5,800.00	0.00
7.05	Cone Penetration Test ( CPT )		Test			On Request	On Request	0.00
7.06	In - Situ Drainage Test		Test			On Request	On Request	0.00
7.07	Dynamic Cone Penetrometer (DCP) 1m		Test			137.50	137.50	0.00
7.08	DCP Processing (CSIR Win DCP 5) 1m		Test			35.00	35.00	0.00
7.09	Dynamic Cone Penetrometer (DCP) 2m		Test			275.00	275.00	0.00
7.10	DCP Processing (CSIR Win DCP 5) 2m		Test			70.00	70.00	0.00
7.11	Point Load Test on Rock		Test			550.00	550.00	0.00
7.12	Plate Load Test		Test			On Request	On Request	0.00
7.13	Adjustable		Test			0.00	0.00	0.00

# ROADLAB

Civil Engineering Materials Laboratory  
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ITEM NO	DESCRIPTION	Test Code	A UNIT	B QTY	C SUPPLY (MATERIAL)	D INSTALL (SERVICES)	E RATE (C + D)	F TOTAL (B x E)
8	Bitumen and Tar Test							0.00
8.01	Bitumen Penetration	IP 49	Test			155.00	155.00	0.00
8.02	Relative Density on Bitumen & Bitumen Rubber	IP 59	Test			155.00	155.00	0.00
8.03	Ring & Ball Softening Point	IP 58	Briq			236.50	236.50	0.00
8.04	Saybolt Furol Viscosity	E8	Test			550.00	550.00	0.00
8.05	Water Content of Emulsion	E17	Test			215.00	215.00	0.00
8.06	Residue on Sieving of Emulsion	IP 91	Test			175.00	175.00	0.00
8.07	Ball Penetration & Resilience	BR2T	Test			170.50	170.50	0.00
8.08	Compression Recovery	BR3T	Test			210.00	210.00	0.00
8.09	Flow Test	BR4T	Test			137.50	137.50	0.00
8.10	Dynamic Viscosity	BR5T	Test			132.50	132.50	0.00
8.11	Sieve Analysis of Rubber	BR6T	Test			155.00	155.00	0.00
8.12	Resilience of Rubber	BR7T	Test			230.00	230.00	0.00
8.13	Test Bulk Density of Rubber	BR8T	Test			143.50	143.50	0.00
8.14	Brookfield Viscosity		Test			423.50	423.50	0.00
8.14a	Extra over 8.14 for additional point		Test			155.00	155.00	0.00
8.15	Bitumen Recovery		Test			495.00	495.00	0.00
8.16	Seal Design (Incl. Basic Testing)		Design			2,200.00	2,200.00	0.00
8.17	Pan Test		Test			214.50	214.50	0.00
8.18	Spot Test		Test			387.50	387.50	0.00
8.19	Oxidation Test		Test					
8.20	Cantabro Abrasion Test		Test					
8.21	Scurry Design		Test			1,925.00	1,925.00	0.00
8.22	Specialised Testing		Test			Cost + 15%		
9.00	Special Methods							
9.01	Skid Resistance Measurement Pendulum		Test			192.50	192.50	0.00
9.02	Ball Penetration Test		Test			110.00	110.00	0.00
9.03	Texture Depth by Sand Patch Method		Test			170.50	170.50	0.00
9.04	Permeability ( Mavril Apparatus )		Test			385.00	385.00	0.00
9.05	Carbonation test on stabilized material		Test			55.00	55.00	0.00
9.06	Rolling Straight Edge		Test			On Request	On Request	0.00
9.07	Reflectometer (Test on road paint)		Test			137.50	137.50	0.00
9.08	Percolation Test on Drain		Test			On Request	On Request	
9.09	Double-Ring Infiltrometer (Excluding Technician Time)		Test			650.00	650.00	0.00
9.10	Determination of Traffic Wear Index for Paints		Test			On Request	On Request	
9.11	Adjustable		Test			0.00	0.00	0.00

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ITEM NO	DESCRIPTION	Test Code	A UNIT	B QTY	C SUPPLY (MATERIAL)	D INSTALL (SERVICES)	E RATE (C + D)	F TOTAL (B x E)
10	Equipment Hire							#VALUE!
10.01	DCP 1m Long		Day			385.00	385.00	0.00
10.02	DCP 2m Long		Day			495.00	495.00	0.00
10.03	DCP 1m Long		Week			825.00	825.00	0.00
10.04	DCP 2m Long		Week			935.00	935.00	0.00
10.04a	Processing of any DCP on Win DCP program		Proc			82.50	82.50	0.00
10.05	Cube moulds (100x100 or 150x150)		Day			9.50	9.50	0.00
10.06	Cube Bath with Thermostat Control Unit (1.2m x 1.2m)		Month			825.00	825.00	0.00
10.07	Radioactive Nuclide (Density & Moisture Guage)		Month			4,675.00	4,675.00	0.00
10.08	Core Drilling Machine (Excl. Barrel)		Day			935.00	935.00	0.00
10.09	Rental of Generator		Day			450.00	450.00	0.00
10.10	Rental of Jackhammer		Day			450.00	450.00	0.00
10.11	Rental of Wacker		Day			450.00	450.00	0.00
10.12	Rental of Backactor ( Excluding Operator )		Day			3,250.00	3,250.00	0.00
10.13	Calibration of Equipment		Masj			On Request	On Request	#VALUE!
10.14	Compiling of Report : Profiling & Photo Only		p/tp			275.00	275.00	0.00
10.15	Purchase of Equipment		Equip			Cost + 15%		
10.17	Cube Casting Kit(6 Cubes,1 Tamp Rod,Slumpcone&C/Tank		Mnt			1,850.00	1,850.00	0.00
10.18	Equipment per Tender		Equip			On Request	On Request	
10.19	Adjustable		Test			0.00	0.00	0.00