

APPENDIX: A

SCHEDULE OF CHARGES

FOR

NATIONAL GOVERNMENT DEPARTMENTS



		<b>DEPARTMENT OF WORKS MATERIALS TESTING LABORATORY</b>		<b>JANUARY 2009</b>	
		<b>SCHEDULE OF CHARGES NATIONAL GOVERNMENT DEPARTMENTS</b>		<b>SHEET: 2 of 2</b>	
<b>POM</b>	<b>LAE</b>	<b>Standard No. Section No.</b>	<b>TEST DESCRIPTION</b>	<b>RATE PER TEST (KINA)</b>	
		<b><u>PNGS 1185</u></b>	<b><u>AS 1141</u></b>	<b><u>SAMPLING AND TESTING AGGREGATES</u></b>	
X	X	1185.4	1141.4	UNIT MASS	43.50
X	X	1185.5	1141.5	BULK DENSITY AND WATER ABSORPTION - FINE	72.00
X	X	1185.6	1141.6	BULK DENSITY AND WATER ABSORPTION - COARSE	60.00
X	X	1185.11	1141.11	PARTICLE SIZE DISTRIBUTION BY DRY SIEVING	85.50
X	X	1185.12	1141.12	MATERIAL FINER THAN 75 $\mu$ m IN AGGREGATES	123.00
X	X	1185.14	1141.14	PARTICLE SHAPE BY PROPORTIONAL CALLIPER	85.50
X	X	1185.15	1141.15	FLAKINESS INDEX	60.00
X	X	1185.20	1141.20	AV.137 LEAST DIMENSION BY DIRECT MEASUREMENT	102.00
X	X	1185.21	1141.21	AGGREGATE CRUSHING VALUE—TWO TESTS	171.00
X	X	1185.22	1141.22	WET/DRY STRENGTH VARIATION	276.00
X	X	1185.23	1141.23	LOS ANGELES VALUE	162.50
X	X	1185.24	1141.24	SOUNDNESS LOSS (SODIUM SULPHATE SOLUTION)	162.50
X	X	1185.32	1141.32	FRIABLE PARTICLES	30.00
X	X	1185.33	1141.33	CLAY AND FINE SILT (SETTLING METHOD)	30.00
X	X	1185.34	1141.34	ORGANIC IMPURITIES OTHER THAN SUGAR	43.50
		<b><u>AS 1012</u></b>		<b><u>METHODS OF TESTING CONCRETE</u></b>	
X		1012.2		PREPARATION OF CONCRETE MIXES (TRIAL MIXES)	187.50
X	X	1012.3		SLUMP TESTING OF FRESH CONCRETE	31.50
X	X	1012.5		MASS PER UNIT VOLUME OF FRESH CONCRETE	60.00
X	X	1012.6.		BLEEDING OF CONCRETE	31.50
X	X	1012.8/9		CASTING AND CURING CONCRETE SAMPLES AND COMPRESSIVE STRENGTH OF CONCRETE (By DOW Staff)	45.00/ Cyl.
X	X	1012.9		COMPRESSIVE STRENGTH OF CONCRETE (cylinders delivered to Laboratory)	43.50/ Cyl
X	X	1012.10		INDIRECT TENSILE STRENGTH	43.50
X	X	1012.11.		FLEXURAL STRENGTH OF CONCRETE	60.00
X	X	1012.12		MASS PER UNIT VOLUME OF HARDENED CONCRETE	24.00
		<b><u>AS 2733</u></b>		<b><u>CONCRETE MASONRY UNITS</u></b>	
X	X	APP C		TRANSVERSE STRENGTH	43.50
X	X	APP E		COMPRESSIVE STRENGTH	43.50
X	X	APP F		MOISTURE CONTENT AND TOTAL ABSORPTION	31.50
X	X	APP H		INITIAL RATE OF ABSORPTION - SUCTION	31.50
X	X	APP J		PERMEABILITY TO WATER	43.50
		<b><u>AS 2150</u></b>		<b><u>ASPHALT (HOT MIXED)</u></b>	
	X	APP A		BITUMEN CONTENT AND AGGREGATE GRADING	136.00
	X	APP C		MARSHALL STABILITY AND FLOW (TWO TESTS)	91.50
	X	APP E		MAXIMUM DENSITY	112.50
	X	APP G		BULK DENSITY AND VOIDS	60.00
		<b><u>AS 2341</u></b>		<b><u>BITUMEN TESTING (TWO TESTS)</u></b>	
	X			DYNAMIC VISCOSITY	136.50
	X			DENSITY-DENSITY BOTTLE	85.50
	X			PENETRATION OF RESIDUAL BITUMEN	85.50
	X		1141.50	RESISTANCE TO STRIPPING OF COVER AGGREGATES FROM BINDERS	276.00

## INSITU TESTING AND FIELDWORK

Both laboratories have experience geotechnical engineers and technicians to undertake the wide range of Investigations, fieldwork and supervision, and insitu testing carried out by the Research & Materials Testing Branch.

Site investigations are performed in accordance with Australian Standard, AS 1726 and Departmental requirements.

### Hourly Charge Rates

The following hourly charge-out rates apply to Research & Materials Testing Branch staff.

In-house Consultant	K 155.00/hour
Contract Officers	K 130.00/hour
National Professional	K 98.00/hour
National Technical	K 70.00/hour

### In-situ Testing

In-situ testing when not carried out in conjunction with an engineering site investigation is charged at the following hourly rates. The rates include hourly charges for the appropriate Research & Materials Testing Branch officers as operators and are applicable to time spent on site. Rates do not include travel time. Vehicle mobilization or extras such as truck or plant hire, accommodation, allowances, stand by or waiting time, etc. Rates include testing only and not supervision or result assessment by professional staff.

Site Supervision	hourly rates as above
California Bearing Ratio — Field Testing (AS1289 F1.3)	K 136.50
Field Vane Shear Test (AS 1289 F2. 1)	K 85.50
Dynamic Cone Penetrometer (AS 1289 F3.2) Sub-grade Investigation Foundation Investigation	K 100.00/ Test location K 80.00/ Test location
Benkelman Beam	K 136.00
Absorption Tests - effluent disposal	Quoted in accordance with situation.
Plate Bearing Tests	Quoted in accordance with situation.

## **Establishment/Mobilization**

Establishment and Mobilization of Research & Materials Testing Officers to project is based on the relevant hourly rates of staff plus vehicle charges.

Personnel rates — as per above hourly charge rates.

### **Vehicle (Port Moresby base)**

- Site within 15km from POM lab K45.00/trip (trip is defined as a return trip)
- Site — greater than 15km from POM Lab. K 2.00/km (additional).

### **Vehicles (Lae base)**

- Site within 20km from Lae lab K45.00/trip (trip is defined as a return trip)
- Site — greater than 20km from Lae Lab. K 2.00/km (additional)

Where establishment/mobilization is by other than laboratory vehicles, (eg. Air), Establishment/mobilization will be charged at staff hourly rates and other travel charges at cost.

A bulk establishment may be appropriate in some cases. This should be discussed with the Office Manager or Laboratory Manager.

Where vehicles are provided to Research & Materials Testing Branch Officers for undertaking duties, such services will be provided to the Research & Materials Testing Branch at no charge to the Science and Technology Branch.

## **Site Delays**

Waiting time and stand by time incurred by laboratory staff during on-site testing will be charged at the relevant hourly charge rates.

## **Bulk Sampling**

Where laboratory staff are required to obtain bulk materials for laboratory tests, the sampling will be charged at the relevant hourly rates plus establishment/mobilization costs.

Where additional transportation costs are incurred by the Research & Materials Testing Branch, there will be charged at cost.

## **Extras**

Extras will be charged at cost plus a 10% administration charge.

Extras may include, for example, accommodation and allowances and additional plant/material hire and costs where incurred by the Research & Materials Testing Branch, freight and vehicle etc.

## **General**

The Assistant Secretary (Research & Materials Testing) reserves the right to reassess these rates and conditions at any time deemed necessary and without notice.

**APPENDIX: B**

**SCHEDULE OF CHARGES**

**FOR**

**STATUTORY AUTHORITIES AND**

**PRIVATE SECTOR**

		DEPARTMENT OF WORKS MATERIALS TESTING LABORATORY		JANUARY 2009
		SCHEDULE OF CHARGES STATUTORY AUTHORITIES & PRIVATE SECTOR		SHEET: 1 of 2
POM	LAE	Standard No.		RATE PER TEST (KINA)
		Section No.	TEST DESCRIPTION	
		<b>AS 1289</b>	<b>TESTING SOIL FOR ENGINEERING PURPOSES</b>	
X	X	2.1.1	MOISTURE CONTENT DETERMINATION	24.00
X	X	3.1.1	ATTERBERG LIMITS including	126.00
X	X	3.2.1	- LIQUID LIMIT	
X	X	3.3.1	- PLASTIC LIMIT	
X	X	3.4.1	- PLASTICITY INDEX	
X	X	3.4.1	LINEAR SHRINKAGE	46.50
X	X	3.5.1	SOIL PARTICLE DENSITY	111.00
X	X	3.6.1	PARTICLE SIZE DISTRIBUTION:	126.00
X		3.6.2	- SIEVE (WET)	276.00
			- HYDROMETER	
X	X	D3.1	pH VALUE—ELECTRONIC	72.00
X			- SOIL	60.00
X	X	D3.2	pHVALUE-COLORIMETRIC METHOD	60.00
X	X		- SOIL	43.50
			- GROUNDWATER	
X	X	5.1.1.	STANDARD COMPACTION TEST	136.00
X	X	5.2.1	MODIFIED COMPACTION TEST	171.00
X	X	5.3.1	FIELD DENSITY TEST	85.50
X	X	5.8.1	- SAND REPLACEMENT	60.00
			- NUCLEAR DENSOMETER	
			CALITORNIA BEARING RATIO (excluding compaction tests)	
X	X	6.1.1	-REMOULDED SPECIMEN	162.50
X	X	6.1.2	-UNDISTURBED SPECIMEN	136.50
X	X		-4 DAY SOAKED	195.00
X	X	6.1 .3	- FIELD CBR TEST (establishment and truck cost extras)	on site quote
X	X	6.3.2	DYNAMIC CONE PENETROMETER (establishment extra)	
			- FOUNDATIO	150.00
			- SUBGRADE INVESTIGATION	100.00
X	X	6.4.1	TRIAXIAL COMPRESSION TEST (quick undrained — uu)	
			- THREE STAGE (mult-stage test)	195.00
			- SET OF THREE SPECIMEN	374.00
X		F6.1	CONSOLIDATION TEST	731.00
X		F7.1	SOIL PERMEABILITY TEST	
			- Falling Head	491.00
			- Constant Head	299.00
			<u>NON STANDARD SOIL TEST</u>	
			UNCONFINED COMPRESSIVE STRENGTH	111.00
			SWELLING PRESSURE	307.50
			VISUAL CLASSIFICATION	24.00
			EMPIRICAL INDEX TESTS	126.00
			- PINCH, TENACITY, ELONGATION, SOAKING	

		DEPARTMENT OF WORKS MATERIALS TESTING LABORATORY		JANUARY 2009	
		SCHEDULE OF CHARGES STATUTORY AURTHORIES & PRIVATE SECTOR		SHEET: 2 of 2	
POM	LAE	Standard No.		RATE PER TEST (KINA)	
		Section No.	TEST DESCRIPTION		
		<u>PNGS 1185</u>	<u>AS 1141</u>	<u>SAMPLING AND TESTING AGGREGATES</u>	
X	X	1185.4	1141.4	UNIT MASS	60.00
X	X	1185.5	1141.5	BULK DENSITY AND WATER ABSORPTION - FINE	103.50
X	X	1185.6	1141.6	BULK DENSITY AND WATER ABSORPTION - COARSE	85.50
X	X	1185.11	1141.11	PARTICLE SIZE DISTRIBUTION BY DRY SIEVING	136.50
X	X	1185.12	1141.12	MATERIAL FINER THAN 75 <sub>un</sub> IN AGGREGATES	162.50
X	X	1185.14	1141.14	PARTICLE SHAPE BY PROPORTIONAL CALLIPER	136.50
X	X	1185.15	1141.15	FLAKINESS INDEX	85.50
		1185.18	1141.18	CRUSDED FACE PARTICLES	55.50
X	X	1185.20	1141.20	AVERAGE LEAST DIMENSION BY DIRECT MEASUREMENT	126.00
X	X	1185.21	1141.21	AGGREGATE CRUSHING VALUE—TWO TESTS	266.00
X	X	1185.22	1141.22	WET/DRY STRENGTH VARIATION	357.50
X	X	1185.23	1141.23	LOS ANGELES VALUE	266.00
X	X	1185.24	1141.24	SOUNDNESS LOSS (SODIUM SULPHATE SOLUTION)	266.00
X	X	1185.32	1141.32	FRIABLE PARTICLES	43.50
X	X	1185.33	1141.33	CLAY AND FINE SILT (SETTLING METHOD)	43.50
X	X	1185.34	1141.34	ORGANIC IMPURITIES OTHER THAN SUGAR	60.00
		<u>AS 1012</u>		<u>METHODS OF TESTING CONCRETE</u>	
X		1012.2		PREPARATION OF CONCRETE MIXES (TRIAL MIXES)	POA
X	X	1012.3		SLUMP TESTING OF FRESH CONCRETE	49.50
X	X	1012.5		MASS PER UNIT VOLUME OF FRESH CONCRETE	78.00
X	X	1012.6		BLEEDING OF CONCRETE	49.50
X	X	1012.8/9		CASTING AND CURING CONCRETE SAMPLES AND COMPRESSIVE STRENGTH OF CONCRETE (By DOW Staff)	54.00/ Cyl.
X	X	1012.9		COMPRESSIVE STRENGTH OF CONCRETE (cylinders delivered to Laboratory)	50.00/Cyl.
X	X	1012.10		INDIRECT TENSILE STRENGTH	60.00
X	X	1012.11		FLEXURAL STRENGTH OF CONCRETE	88.50
X	X	1012.12		MASS PER UNIT VOLUME OF HEARDENED CONCRETE	31.50
		<u>AS 2733</u>		<u>CONCRETE MASONRY UNITS</u>	
X	X	APP C		TRANSVERSE STRENGTH	88.50
X	X	APP E		COMPRESSIVE STRENGTH	88.50
X	X	APP F		MOISTURE CONTENT AND TOTAL ABSORPTION	69.00
X	X	APP H		INITIAL RATE OF ABSORPTION - SUCTION	69.00
X	X	APP J		PERMEABILITY TO WATER	88.50
		<u>AS 2150</u>		<u>ASPHALT (HOT MIXED)</u>	
	X	APP A		BITUMEN CONTENT AND AGGREGATE GRADING	227.50
	X	APP C		MARSHALL STABILITY AND FLOW (TWO TESTS)	162.50
	X	APP E		MAXIMUM DENSITY	126.00
	X	APP G		BULK DENSITY AND VOIDS	85.50
		<u>AS 2341</u>		<u>BITUMEN TESTING (TWO TESTS)</u>	
	X			DYNAMIC VISCOSITY	150.00
	X			DENSITY-DENSITY BOTTLE	112.50
	X			PENETRATION OF RESIDUAL BITUMEN	112.50
	X		1141.50	RESISTANCE TO STRIPPING OF COVER AGGREGATES FROM BINDERS	357.50

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Personnel rates — as per above hourly charge rates.

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Site within 15km from POM Lab	K102.50/ trip (trip is defined as a return trip).
Site – greater than 15km from POM Lab	Additional K 5.00/km

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Site within 20km from Lae Lab	K102.50/ trip (trip is defined as a return trip)
Site — greater than 20 km from Lae Lab	Additional K 5.00/km

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