

Revised Schedule of Fees and Charges for Laboratory Testing of Construction Materials

(Department Order No. 188 Series of 2022)

Materials	Kind of Test	AASHITO	FREQUENCY		Schedule of Pays and Charges	
			MINIMUM TESTING REQUIREMENTS	MINIMUM QUANTITY	Old Rate	New Rate
<b>Soil Aggregates, Concrete Aggregates, and Asphalt Aggregates</b>	Sieve Analysis or Grading (wet and dry)	T27	1 sample per 1,500 m <sup>3</sup>	70 kg	290.00	350.00
	Liquid Limit	T89			240.00	290.00
	Plastic Limit	T90			170.00	210.00
	Laboratory Compaction	T180			930.00	1,120.00
	Abrasion	T96			600.00	720.00
	Moisture Content	T255			140.00	170.00
	Specific Gravity/Absorption	T84/T85			290.00	350.00
	Mortar Strength	T106			290.00	350.00
	Unit Weight	T19			210.00	260.00
	Soundness	T104-99			500.00	600.00
	Organic Impurities	T21			350.00	420.00
	Clay Lumps	T112			150.00	180.00
	Material Finer than No. 200	T11-91			240.00	290.00
	California Bearing Ratio	T193	1 sample per 2,500 m <sup>3</sup>	5 kg.	1,670.00	2,010.00
<b>Concrete and Cement Products</b>	Flexural Strength	T97-18	1 sample per 75 m <sup>3</sup>	1 set (3 cylinders)	170.00	210.00
	Compressive Strength	T22	1 sample per 75 m <sup>3</sup>	1 set (3 cylinders)	150.00	180.00
	Thickness				1,370.00	1,650.00
	<b>Reinforce Concrete Pipe</b>					
	External Load Crushing Strength, 24" and under ø	T334-08	1 sample per 50 pipes or 2% of # of pipes	1 pipe (1m length)	750.00	900.00
	24" - 30" ø	T334-09			950.00	1,140.00

	30" - 42" ø	T334-10			1,250.00	1,500.00
	42" - 60" ø	T334-11			2,050.00	2,460.00
	Reinforcement Measurement	T334-12			140.00	170.00
	Dimension Measurement	T334-13			140.00	170.00
	Water Absorption	T334-15			290.00	350.00
	Concrete Hollow Block					
	Compressive Strength	T140-97	1 sample per 10,000 units	3 units	170.00	210.00
	Water Absorption and Moisture Content	T140-97			220.00	270.00
Portland Cement	Magnesium Oxide	T105-16	1 sample per 2,000 bags	10 kg	230.00	280.00
	Sulfur Trioxide	T105-16			230.00	280.00
	Loss on Ignition	T105-16			220.00	270.00
	Fineness	T128-97			140.00	170.00
	Autoclave Expansion	T107			410.00	500.00
	Air Content	T137-00			200.00	240.00
	Time Setting	T131-93			120.00	150.00
	Compressive Strength	T106			600.00	720.00
	Specific Gravity	T133-98			200.00	240.00
	Normal Consistency	T129-88			140.00	170.00
	Insoluble Residue	T105-16			230.00	280.00
Miscellaneous Construction Materials	Reinforcing Steel Bars (Deformed and Plain)					
	Tensile Properties	M31 M-19			290.00	350.00
	Bending Properties	M31 M-19			150.00	180.00
	Deformation Measurement	M31 M-20			150.00	180.00
	Variation in Weight	M31 M-21			140.00	170.00
	Chemical Analysis: Phosphorous Content	M31 M-22			410.00	500.00
	Structural Steel & Guardrail					
	Tensile Properties	T65 M/T	1 sample per 50T	Reduced section as prescribed	240.00	290.00
	Zinc Coating	T65 M/T			290.00	350.00

	Reflectorized Traffic Paint					
	Type I (White)	M249-12	1 sample per 100 cans`	1-4 Liters can	4,020.00	4,830.00
	Type I (Yellow)	M249-13			4,440.00	5,330.00
	Type II (White)	M249-14			3,230.00	3,880.00
	Type II (Yellow)	M249-15			3,620.00	4,350.00
	Thermoplastic Paint					
	Specific Gravity	M249-15	1 sample per 100 cans	1-4 Liters can	340.00	410.00
	Softening Point	M249-16			420.00	510.00
	Drying Time	M249-17			130.00	160.00
	Vehicle Binder	M249-18			1,940.00	2,330.00
	Glass Beads Content	M249-13			670.00	810.00
	Glass Beads Grading	M249-13			150.00	180.00
Asphalt Materials and Asphalt Mixes	Asphalt Cement					
	Specific Gravity	M226	1 sample per 40T or 200 drums	5 Liters	140.00	170.00
	Loss on Heating	M227			220.00	270.00
	Solubility	M228			290.00	350.00
	Spot Test	M229			300.00	360.00
	Flashpoint	M230			220.00	270.00
	Penetration	M231			400.00	480.00
	Ductility	M232			820.00	990.00
	Emulsified Asphalt					
	Viscosity	T202-15	1 sample per 40T or 200 drums	5 Liters	290.00	350.00
	Distillation	T78-15			550.00	660.00
	Cement Mix	M208			220.00	270.00
	Sieve Test	R29-15			220.00	270.00
	Specific Gravity	T166-16			140.00	170.00
Storage Stability	R35-17	220.00			270.00	

	Solubility	T44-14			290.00	350.00
	Ductility	T301-13			410.00	500.00
	Penetration	T49-15			200.00	240.00
	Cutback Asphalt					
	Specific Gravity	T166-16	1 sample per 40T or 200 drums	5 Liters	140.00	170.00
	Distillation	T78-15			660.00	800.00
	Viscosity	T201-15			290.00	350.00
	Spot Test	T102-09			300.00	360.00
	Penetration	T49-15			200.00	240.00
	Ductility	T301-13			410.00	500.00
	Solubility	T44-14			290.00	350.00
	Flashpoint	T48-18			220.00	270.00
	Joint Filler					
	Penetration	T49-15	1 sample per 40T or 200 drums	1 Liter	210.00	260.00
	Flow	T49-15			410.00	500.00
	Pour Point	T49-15			290.00	350.00
	Safe Heating	T49-15			290.00	350.00
	Preformed Joint Filler					
	Absorption	T49-15	1 sample per 40T or 200 drums	1 Liter	420.00	510.00
	Compression and Recovery	R59-11			410.00	500.00
	Thickness	R59-11			170.00	210.00
	Density	T166-16			210.00	260.00
	Bituminous Mix					
	Extraction	T319-15	1 sample per 130T	20 kg	390.00	470.00
	Grading	R29-15			290.00	350.00
	Marshall Stability/Immersion Compression	R68-15			390.00	470.00
	Density and Voids of Compacted Mixtures	R67-16			210.00	260.00