



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

097-13 DPWH

08.30.2022

AUG 29 2022

DEPARTMENT ORDER)
NO. 188)
Series of 2022)
at 8/30/2022

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

By virtue of Administrative Order No. 31, Series of 2012 pursuant to DOF-DBM-NEDA Joint Circular No. 1-2013 prescribing the Implementing Rules and Regulations (IRR) on the rationalization of rates and fees and charges, increase in existing rates, and imposition of new fees and charges of all government agencies and/or entities, the attached Revised Schedule of Fees and Charges for Laboratory Testing of Construction Materials is hereby prescribed, and shall take effect immediately.


MANUEL M. BONOAN
Secretary

14.1 RPF/EAA/MLC

Department of Public Works and Highways
Office of the Secretary


WIN2U01803

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
	I. SOILS		
1	Grading	290.00	350.00
2	Combined Sieve and Hydrometer	720.00	870.00
3	Materials Finer than the No. 200 Sieve by Washing (Wash Loss)	170.00	210.00
4	Liquid Limit	240.00	290.00
5	Plastic Limit	170.00	210.00
6	Shrinkage Limit	220.00	270.00
7	Moisture Content	90.00	110.00
8	Compaction (Proctor)	820.00	990.00
9	Compaction (Modified)	930.00	1,120.00
10	Field Density Test (FDT)	480.00	580.00
11	California Bearing Ratio (CBR)	1,670.00	2,010.00
12	Penetration (CBR), per molded specimen	140.00	170.00
13	Swell (CBR), per molded specimen	140.00	170.00
14	Organic Content	-	910.00
15	Abrasion	600.00	720.00
16	Specific Gravity	230.00	280.00
17	Unit Weight (Disturbed/Undisturbed Samples)	170.00	210.00
18	Consolidation	1,900.00	2,280.00
19	Consolidation of Wet and Dry Specimen under a 10 psi Unit Load (Correction Factor for "k" Value)	2,250.00	2,700.00
20	Direct Shear	2,990.00	3,590.00
21	Direct Shear, one loading	1,850.00	2,220.00
22	Triaxial Compression	4,500.00	5,400.00
23	Triaxial Compression, one loading	3,600.00	4,320.00
24	Unconfined Compression, per test	520.00	630.00
25	Compression, including molding (Soil-Stabilization), per molded specimen	290.00	350.00
26	Absorption (Soil-Stabilization)	290.00	350.00
27	Organic Matter on Soils	-	910.00
	II. AGGREGATES (Concrete and Composite Aggregates)		
1	Grading	290.00	350.00
2	Materials Finer than the No. 200 Sieve	240.00	290.00
3	Crushing	290.00	350.00
4	Unit Weight, loose and rodded	210.00	260.00
5	Flat and Elongated Particles in Coarse Aggregates (ASTM D4791)	170.00	210.00
6	Specific Gravity and Absorption	290.00	350.00
7	Absorption	170.00	210.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
8	Specific Gravity	200.00	240.00
9	Moisture Content	140.00	170.00
10	Abrasion	600.00	720.00
11	Stripping	500.00	600.00
12	% Fractured Face	170.00	210.00
13	Soundness	500.00	600.00
14	Organic Impurities	350.00	420.00
15	Mortar Strength, 7 days	290.00	350.00
16	Mortar Strength, 28 days	290.00	350.00
17	Particles with Specific Gravity Less than 2.00	240.00	290.00
18	Clay Lumps in Aggregates	150.00	180.00
19	Potential Alkali Reactivity of Cement Aggregate Combinations:		
	a. Chemical Method	-	19,210.00
	b. Mortar Bar Method	-	19,210.00
	III. HYDRAULIC CEMENT		
	A. Portland Cement		
1	Fineness by 0.075 mm (No. 200) Sieve	140.00	170.00
2	Fineness by Air Permeability	140.00	170.00
3	Fineness by Turbidimeter	140.00	170.00
4	Density/Specific Gravity	200.00	240.00
5	Normal Consistency	140.00	170.00
6	Time of Setting by Vicat Needles	120.00	150.00
7	Time of Setting by Gillmore Needles (Optional Requirement)	120.00	150.00
8	Soundness by Pat Test	120.00	150.00
9	Autoclave Expansion	410.00	500.00
10	Compressive Strength:		
	a. 1 day	200.00	240.00
	b. 3 days	200.00	240.00
	c. 7 days	200.00	240.00
	d. 28 days	200.00	240.00
11	Air Content	200.00	240.00
12	Heat of Hydration (Optional Requirement)		
	a. 3 days	-	2,290.00
	b. 7 days	-	2,290.00
13	False Set, Final Penetration (Optional Requirement)	-	900.00
14	Sulfate Resistance (Optional Requirement), 14 days	-	16,570.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
15	Chemical Tests:		
	a. Loss on Ignition	220.00	270.00
	b. Insoluble Residue	230.00	280.00
	c. Sulfur Trioxide (SO ₃)	230.00	280.00
	d. Magnesium Oxide (MgO)	230.00	280.00
	e. Silicon Dioxide (SiO ₂)	230.00	280.00
	f. Aluminum Oxide (Al ₂ O ₃)	290.00	350.00
	g. Ferric Oxide (Fe ₂ O ₃)	290.00	350.00
	h. Calcium Oxide (CaO)	290.00	350.00
	i. Equivalent Alkalis :		
	Potassium Oxide (P ₂ O ₅)	230.00	280.00
	Sodium Oxide (Na ₂ O)	230.00	280.00
	B. Blended Hydraulic Cement		
1	Density/Specific Gravity	200.00	240.00
2	Normal Consistency	140.00	170.00
3	Time of Setting by Vicat Needles	120.00	150.00
4	Autoclave Expansion/Contraction	410.00	500.00
5	Air Content of Mortar	200.00	240.00
6	Compressive Strength:		
	a. 3 days	200.00	240.00
	b. 7 days	200.00	240.00
	c. 28 days	200.00	240.00
7	Heat of Hydration (Optional Requirement)		
	a. 3 days	-	2,290.00
	b. 7 days	-	2,290.00
8	Water Requirement	200.00	240.00
9	Sulfate Resistance, % Expansion at 180 days, 1 year	-	16,570.00
10	Chemical Tests:		
	a. Loss on Ignition	220.00	270.00
	b. Insoluble Residue	230.00	280.00
	c. Sulfur Trioxide (SO ₃)	230.00	280.00
	d. Magnesium Oxide (MgO)	230.00	280.00
	e. Sulfide Sulfur	230.00	280.00
	f. Water-soluble Alkali	230.00	280.00
	g. Silica Fume	230.00	280.00
	h. Metakaolin	230.00	280.00
	i. Limestone	230.00	280.00
	j. All Other Constituents (per element)	230.00	280.00
	C. Masonry Cement		
1	Fineness by 0.045 mm (No. 325) sieve	140.00	170.00
2	Density	200.00	240.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
3	Normal Consistency	140.00	170.00
4	Autoclave Expansion	410.00	500.00
5	Time of Setting by Gillmore Needles	120.00	150.00
6	Compressive Strength:		
	a. 7 days	200.00	240.00
	b. 28 days	200.00	240.00
7	Air Content of Mortar (Air Entrainment)	200.00	240.00
8	Water Retention Value	200.00	240.00
9	Staining Test (Water-soluble Alkali-sodium Oxide)	230.00	280.00
	D. Fly Ash or Natural Pozzolan		
1	Density	200.00	240.00
2	Fineness by 0.045 mm (No. 325) Sieve	140.00	170.00
3	Increase of Drying Shrinkage of Mortar Bars	-	
4	Soundness (Autoclave)	410.00	500.00
5	Air-Entrainment of Mortar	200.00	240.00
6	Strength Activity Index with Portland Cement		
	a. 7 days	-	400.00
7	Water Requirement	200.00	240.00
8	Moisture Content	140.00	170.00
9	Chemical Tests:		
	a. Loss on Ignition	220.00	270.00
	b. Sulfur Trioxide (SO ₃)	230.00	280.00
	c. Silicon Dioxide (SiO ₃)	230.00	280.00
	d. Aluminum Oxide (Al ₂ O ₃)	290.00	350.00
	e. Ferric Oxide (Fe ₂ O ₃)	290.00	350.00
	f. Available Alkalis (Sodium Oxide)	230.00	280.00
	IV. CONCRETE AND CEMENT PRODUCTS		
1	Molded Concrete Samples:		
	a. Compressive Strength of Concrete Cubes – 6" x 6"	150.00	180.00
	b. Compressive Strength of Concrete Cylinders		
	1) 6" x 12"	150.00	180.00
	2) 8" x 16"	170.00	210.00
	c. Compressive Strength of Drilled Core		
	1) 4" diameter	150.00	180.00
	2) 6" diameter	150.00	180.00
	d. Flexural Strength of Concrete Beams – 6" x 6" in Cross-section	170.00	210.00
2	Length/Thickness Measurement of Drilled Core	200.00	240.00
3	Slump Test	240.00	290.00
4	Air Content	240.00	290.00
5	Unit Weight	240.00	290.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
6	Trial Mix (Concrete Design) at Given Cement Factor	1,600.00	1,920.00
7	Trial Mix (Concrete Design) at Given Strength:		
	a. First Trial	1,530.00	1,840.00
	b. Each Extra Trial	1,180.00	1,420.00
	V. PRE-CAST CONCRETE UNITS		
	A. Culvert Pipe, Sewer Pipe and Drain Tile		
1	Water Absorption	220.00	270.00
2	Water Absorption with Coefficient of Saturation	290.00	350.00
3	Reinforcement Measurement	140.00	170.00
4	Dimension Measurement	140.00	170.00
5	Strength		
	a. Non-reinforced:		
	1) 10" Nominal Size and Under	510.00	620.00
	2) Over 10" to 18" Nominal Size	660.00	800.00
	b. Reinforced:		
	1) 24" Nominal Size and Under	750.00	900.00
	2) Over 24" to 30" Nominal Size	950.00	1,140.00
	3) Over 30" to 42" Nominal Size	1,250.00	1,500.00
	4) Over 42" to 60" Nominal Size	2,050.00	2,460.00
	B. Masonry Building Units (Concrete Hollow Bocks/Bricks) and Paving Blocks		
1	Compressive Strength	170.00	210.00
2	Dimension Measurement	140.00	170.00
3	Moisture Content	220.00	270.00
4	Water Absorption	220.00	270.00
5	Flexural Strength	220.00	270.00
6	Water Absorption and Coefficient of Saturation	290.00	350.00
	C. Flooring Materials		
1	Flexural Strength:		
	a. Cement Tiles, 2 cm x 20 cm x 20 cm nominal size and under per 5-unit sample	350.00	420.00
	b. Slabs, 4 cm x 50 cm x 50 cm maximum nominal size per unit	220.00	270.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
	D. Asbestos Cement Sheets		
1	Flexural Strength:		
	a. Flat Sheets, per 3 standard test specimens or less	330.00	400.00
	1) For each additional standard test specimen	140.00	170.00
	b. Corrugated Sheets, per 3 standard test specimens or less	410.00	500.00
	1) For each additional standard test specimen	140.00	170.00
2	Water Absorption:		
	a. For 3 Standard Test Specimens	410.00	500.00
	1) For each additional standard test specimen	140.00	170.00
	E. Asbestos Cement Pipes		
1	Crushing Strength:		
	a. 10" Nominal Size and Under	290.00	350.00
	b. Over 10" to 18" Nominal Size	410.00	500.00
	c. Over 18" to 30" Nominal Size	570.00	690.00
2	Flexural Strength for Pipes - 8" Nominal Size and Under	290.00	350.00
	VI. BITUMINOUS MATERIALS		
	A. Asphalt Cement (Penetration and Viscosity Grade)		
1	Density	140.00	170.00
2	Ductility (Original Sample and Residue)	820.00	990.00
3	Penetration (Original Sample and Residue)	400.00	480.00
4	Loss on Heating/Thin-Film Oven Test	220.00	270.00
5	Solubility	290.00	350.00
6	Flash Point (Cleveland Open Cup)	220.00	270.00
7	Spot Test	300.00	360.00
8	Viscosity at 135°C (Kinematic)	290.00	350.00
9	Absolute Viscosity at 60°C (Vacuum Capillary Viscometer)	-	600.00
	B. Cutback Asphalt (Rapid, Medium and Slow Curing)		
1	Density	140.00	170.00
2	Viscosity (Kinematic)	290.00	350.00
3	Flash Point (Tag Open-Cup)	220.00	270.00
4	Water	390.00	470.00
5	Distillation	660.00	800.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
6	Absolute Viscosity (Residue) (Vacuum Capillary Viscometer)	-	600.00
7	Penetration (Residue)	200.00	240.00
8	Ductility (Residue)	410.00	500.00
9	Solubility (Residue)	290.00	350.00
10	Spot Test (Residue)	300.00	360.00
	C. Emulsified Asphalt (Anionic and Cationic)		
1	Density/Weight per Gallon	140.00	170.00
2	Sieve Test	220.00	270.00
3	Cement Mixing (Slow Setting)	220.00	270.00
4	Viscosity (Saybolt-Furol)	290.00	350.00
5	Viscosity (Rotational Viscometer)	290.00	350.00
6	Storage Stability	220.00	270.00
7	Settlement Test	290.00	350.00
8	Demulsibility	410.00	500.00
9	Coating Ability and Water Resistance	140.00	170.00
10	Ash Content (Mineral Matter)	290.00	350.00
11	Particle Charge (Cationic)	320.00	390.00
12	Miscibility with Water	410.00	500.00
13	Distillation by Evaporation	550.00	660.00
14	Distillation/Oil Distillate	660.00	800.00
15	Penetration (Residue)	200.00	240.00
16	Ductility (Residue)	410.00	500.00
17	Ash Content (Residue)	290.00	350.00
18	Float Test (Residue)	290.00	350.00
	D. Polymer Modified Bitumen/PMB (Performance Grade)		
1	Softening Point	480.00	580.00
2	Rolling Thin-Film Oven Test (RTFOT)	220.00	270.00
3	Viscosity (Rotational Viscometer)	290.00	350.00
4	Dynamic Shear (DSR) Before and After RTFOT and After PAV	-	1,000.00
5	Creep Stiffness	-	600.00
6	Penetration	200.00	240.00
7	Elastic Recovery	410.00	500.00
8	Solubility	290.00	350.00
9	Flash and Fire Points (Cleveland Open Cup)	220.00	270.00
10	Dynamic Viscosity at 135°C	-	840.00
11	Dynamic Viscosity at 170°C	-	840.00
12	Storage Stability at 180°C, 72 hours	220.00	270.00
13	Difference in Softening Point	480.00	580.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
	E. Concrete Joint Sealer Hot-Poured Elastic Type		
1	Pour Point Temperature	290.00	350.00
2	Safe Heating Temperature	290.00	350.00
3	Penetration (Cone)	210.00	260.00
4	Flow Test	410.00	500.00
5	Bond Test	-	1,000.00
	F. Pre-molded Expansion Joint Filler (Corkfill and Sponge Rubber)		
1	Density	210.00	260.00
2	Thickness	170.00	210.00
3	Water Absorption	420.00	510.00
4	Compression and Recovery	410.00	500.00
5	Brittleness	-	540.00
6	Solubility	290.00	350.00
7	Accelerated Weathering Test	-	2,100.00
	G. Elastomeric Modified Bitumen Binder (Thormajoint)		
1	Softening Point	480.00	580.00
2	Flow Resistance	410.00	500.00
3	Penetration (Cone)	210.00	260.00
4	Pour Point Temperature	290.00	350.00
5	Safe Heating Temperature	290.00	350.00
6	Grading (Stone)	290.00	350.00
	VII. BITUMINOUS MIXTURES		
1	Bitumen Content (Extraction)	390.00	470.00
2	Grading	290.00	350.00
3	Bulk Specific Gravity/Density	210.00	260.00
4	Stability (Immersion-Compression)	390.00	470.00
5	Stability (Marshall)/Flow	390.00	470.00
6	Maximum Specific Gravity	210.00	260.00
7	% Voids	210.00	260.00
8	Trial Mix (Job-Mix) with Asphalt (Marshall), Complete with Laboratory Compacted Density, Absorption, Swell and Stability Characteristics:		
	a. First Trial	2,260.00	2,720.00
	b. Each Extra Trial	1,430.00	1,720.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
	VIII. FERROUS AND NON-FERROUS METAL AND ALLIED PRODUCTS		
	A. Steel Bars (for Complete Reinforcement)		
1	Tensile Properties	240.00	290.00
2	Bending Properties	150.00	180.00
3	Deformation Measurement	150.00	180.00
4	Variation in Weight	140.00	170.00
5	Chemical Analysis: Phosphorus Content	410.00	500.00
6	Sulfur Content	-	650.00
7	All Other Constituent	-	650.00
	B. Cast Iron Pipes and Centrifugally Cast Pipes		
1	Hydraulic Test on Cast Iron Soil Pipes	570.00	690.00
2	Hydraulic Test, with test pressure over 50 psi up to 1,000 psi for pipes 10" nominal size and under	820.00	990.00
3	Flexural Strength – standard test bars, A, B, C	410.00	500.00
4	Tensile Properties – prepared standard test specimen	410.00	500.00
5	Dimension Measurement	140.00	170.00
6	Chemical Analysis: a. Phosphorus Content b. Sulfur Content c. All other Constituents	410.00 570.00 -	500.00 690.00 650.00
	C. Steel Pipes		
1	Hydrostatic Test, with test pressure over 50 psi up to 1000 psi for pipes 10" nominal size and under	820.00	990.00
2	Dimension Measurement	100.00	120.00
3	Weight Determination	140.00	170.00
4	Weight of Coating	820.00	990.00
5	Thickness or Uniformly of Coating by Preece Test Method	570.00	690.00
	D. High Tensile Wire/Wire Mesh/Wire Rope/Gabion/Mattress/Tie Wire/Steel Plate		
1	Tensile Properties of Wire, from gage 10 up	290.00	350.00
2	Ductility of Wire	290.00	350.00
3	Adherence of Coating	290.00	350.00
4	Uniformly of Coating by Preece Test Method	290.00	350.00
5	Weight of Coating	410.00	500.00

**SCHEDULE OF FEES AND CHARGES
 FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
6	Breaking Strength of Wire Ropes: a. 1/2" nominal size and under b. Over 1/2" to 1" nominal size	570.00 820.00	690.00 990.00
7	Dimension Measurement	140.00	170.00
	E. Standard Test Specimens and Miscellaneous Metal Products		
1	Tensile Properties, prepared test specimen	600.00	720.00
2	Hardness Test (Brinnel or Rockwell): a. For the first specimen b. For each additional specimen	290.00 140.00	350.00 170.00
3	Impact Test, Charpy, Izod or Tensile, prepared test specimen a. For the first specimen b. For each additional specimen	290.00 140.00	350.00 170.00
4	Wheelborrow Check Test	830.00	1,000.00
5	Cast Iron Manhole Frame and Cover Check Test	830.00	1,000.00
6	Load Test, hydraulic jacks, not over 50 tons capacity	4,020.00	4,830.00
7	Chemical Analysis per Element Sulfur	410.00	500.00
8	Flexural Strength (Reflective Pavement Studs)	600.00	720.00
	F. Reinforcing Steel Bar – Spectrometric (Spark AES/OES, XRF, ICP, AAS)		
1	Phosphorus (P)	-	1,160.00
2	Sulfur (S)	-	650.00
3	Antimony (Sb)	-	680.00
4	Arsenic (As)	-	650.00
5	Boron (B)	-	650.00
6	Calcium (Ca)	-	650.00
7	Carbon (C)	-	650.00
8	Chromium (Cr)	-	670.00
9	Copper (Cu)	-	670.00
10	Manganese (Mn)	-	670.00
11	Molybdenum (Mo)	-	1,530.00
12	Nickel (Ni)	-	670.00
13	Niobium (Nb)	-	650.00
14	Nitrogen (N)	-	3,550.00
15	Silicon (Si)	-	1,130.00
16	Tin (Sn)	-	670.00
17	Titanium (Ti)	-	730.00
18	Vanadium (V)	-	730.00
19	Zirconium (Zr)	-	650.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
	IX. MISCELLANEOUS MATERIALS		
	A. Curing Compound		
1	Water Retention	1,450.00	1,740.00
2	Drying Time	130.00	160.00
3	Nonvolatile Content	500.00	600.00
4	General Characteristics	500.00	600.00
	B. Reflective Sheeting		
1	Shrinkage	300.00	360.00
2	Flexibility	300.00	360.00
3	Adhesion	300.00	360.00
4	Impact Resistance	-	1,500.00
5	Night-time Color	-	1,000.00
6	Day-time Color	-	1,000.00
7	Colorfastness	-	760.00
8	Coefficient of Retroreflection	-	1,000.00
	C. Galvanized Iron (Plain/Corrugated) and Steel Sheets		
1	Weight of Coating	290.00	350.00
2	Base Metal Thickness	140.00	170.00
3	Bend and Flaking Test	140.00	170.00
	D. Quicklime, Hydrated Lime and Limestone		
1	Apparent Loose Density	200.00	240.00
2	Apparent Packed Density	200.00	240.00
3	Relative Density (Specific Gravity)	200.00	240.00
4	Residue and Sieve Analysis (Wet Sieve Analysis)	290.00	350.00
5	Sieve Analysis (Dry Sieve Analysis)	290.00	350.00
6	Fineness by Air Permeability (Pulverized)	290.00	350.00
7	Particle Size of Pulverized Limestone	290.00	350.00
8	Dry Screening by Jet Sieving	290.00	350.00
9	Wet Sieve Analysis of Agricultural Liming Materials	290.00	350.00
10	Dry Brightness of Pulverized Limestone	-	1,000.00
11	Popping and Pitting of Hydrated Lime	-	1,000.00
12	Autoclave Expansion of Hydrated and Hydraulic Lime	410.00	500.00
13	Air Entrainment	200.00	240.00
14	Water Retention of Hydrated Lime	-	350.00
15	Plasticity of Lime Putty	310.00	380.00
16	Standard Consistency of Lime Putty	140.00	170.00
17	Free Moisture in Hydrated Lime/Limestone	220.00	270.00
18	pH Determination	290.00	350.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
19	Insoluble Matter	290.00	350.00
20	Loss on Ignition	240.00	290.00
21	Magnesium Oxide (MgO)	290.00	350.00
22	Manganese (Mn)	290.00	350.00
23	Aluminum Oxide (Al ₂ O ₃)	290.00	350.00
24	Phosphorus (P)	290.00	350.00
25	Silicon Dioxide (SiO ₂)	290.00	350.00
26	Strontium Oxide (SrO)	290.00	350.00
27	Sulfur Trioxide (SO ₃)	290.00	350.00
28	Total Carbon	290.00	350.00
29	Total Iron	290.00	350.00
30	Total Sulfur	290.00	350.00
31	Available Lime Index	290.00	350.00
32	Calcium Oxide (CaO)	290.00	350.00
33	Carbon Dioxide (CO ₂)	290.00	350.00
34	Ferrous Iron	290.00	350.00
35	Free Calcium Oxide	290.00	350.00
36	Free Silica	290.00	350.00
37	Calcium Carbonate Equivalent	290.00	350.00
	E. Mineral Filler		
1	Plasticity Index	310.00	380.00
2	Grading	290.00	350.00
3	Loss on Ignition	220.00	270.00
	F. Water for Concreting		
1	Time of Setting by Vicat Needles	120.00	150.00
2	Autoclave Expansion	410.00	500.00
3	Total Solids and Inorganic Matter	330.00	400.00
4	pH Test (Acidity and Alkalinity)	330.00	400.00
5	Compressive Strength	200.00	240.00
6	Sulfate Ion	330.00	400.00
7	Chloride Ion	330.00	400.00
	G. Pre-painted Roofing/Metal Sheet		
1	Total Coated Thickness	290.00	350.00
2	Galvanized Iron/Metal Sheets Used Prior to Painting:		
	a. Weight of Coating	290.00	350.00
	b. Base Metal Thickness	140.00	170.00
	c. Bend and Flaking Tests	140.00	170.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
	H. Paint and Varnish – Flat Latex Paint, Alkyd-based Metal Primer, Semi-gloss Enamel Paint, Enamel Paint, Flatwall Enamel Paint, Gloss Latex Paint, Semi-gloss Latex Paint, Water Based Gloss Roof Paint, Epoxy Metal Primer, Elastomeric Wall Coating, Epoxy Enamel		
1	Density/Specific Gravity	340.00	410.00
2	Wet Edge Time	130.00	160.00
3	Drying Time (Set to Touch, Recoat Time, Dry Hard)	130.00	160.00
4	Levelling	-	520.00
5	Total Solids (by weight)	330.00	400.00
6	Storage Stability – accelerated at 50 ± 1°C, 1 month	-	900.00
7	Viscosity (Ford Viscosity Cup), Krebs Unit (KU)	-	500.00
8	Fineness of Grind (North Standard-NS)	-	380.00
9	Degree of Settling, 6 months storage	-	1,200.00
10	Wet Abrasion, cycles	-	1,500.00
11	Adhesion, by Tape Test 75 µm on CRS	-	380.00
12	Spot Test (Alkali Resistance)	-	400.00
13	Spot Test (Immersion Test)	-	1,050.00
14	Pencil Hardness	-	380.00
15	Specular Gloss	-	600.00
16	Accelerated Weathering, (Xenon Arc or QUV) – Colorfastness to Weathering	-	2,100.00
17	Accelerated Weathering, (Xenon Arc or QUV) – Colorfastness to Light	-	2,100.00
18	Corrosion Resistance (Salt Spray, 24 hrs)	-	2,410.00
19	Impact Resistance	-	1,500.00
20	Volatile Organic Compound Content (Gas-Chromatography)	-	2,400.00
21	Lead Content (ICP-AES, FAAS, GFAAS)	-	1,920.00
22	Paint Composition on Readymix Paint	1,370.00	1,650.00
23	Pigment Composition – each constituent	410.00	500.00
24	Analysis of Varnish	2,020.00	2,430.00
25	Analysis of Linseed Oil	2,120.00	2,550.00
26	Tensile Strength and Elongation	-	840.00
	I. Pre-mixed ReflectORIZED Traffic Paint – Type I and Type II (White and Yellow)		
1	Density/Specific Gravity	340.00	410.00
2	Drying Time (No Pick-up)	130.00	160.00
3	Total Dry Solids	1,370.00	1,650.00
4	Non-volatile Content	410.00	500.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
5	Glass Beads Content	670.00	810.00
6	Consistency (Kreb Units)	290.00	350.00
7	Grading of Glass Beads	150.00	180.00
8	Roundness of Glass Beads	150.00	180.00
9	Refractive Index of Glass Beads	-	
10	Pigment Analysis: a. Titanium Dioxide (TiO ₂) of White Paints b. Lead Chromate (PbCrO ₄) of Yellow Paints	410.00 410.00	500.00 500.00
11	Analysis of Reflectorized Traffic Paints: a. Type I: 1) White 2) Yellow b. Type II: 1) White 2) Yellow	4,020.00 4,440.00 3,230.00 3,620.00	4,830.00 5,330.00 3,880.00 4,350.00
	J. Thermoplastic Traffic Paint – Solid Form (White and Yellow)		
1	Density/Specific Gravity	340.00	410.00
2	Softening Point	420.00	510.00
3	Drying Time (No Pick-Up)	130.00	160.00
4	Cracking Resistance at Low Temperature	-	1,310.00
5	Impact Resistance	-	650.00
6	Flowability	-	870.00
7	Flowability – extended heating	-	870.00
8	Bond Strength to Portland Cement	-	1,000.00
9	Yellowness Index	-	870.00
10	Storage Life, 1 year	-	870.00
11	Ash/Binder Content	1,940.00	2,330.00
12	Glass Beads Content	670.00	810.00
13	Grading of Glass Beads	150.00	180.00
14	Spheres, %	150.00	180.00
15	Refractive Index of Glass Beads	-	400.00
16	Daylight Reflectance	-	1,000.00
17	Pigment Analysis: a. Titanium Dioxide (TiO ₂) of White Paints b. Lead Chromate (PbCrO ₄) of Yellow Paints	410.00 410.00	500.00 500.00
18	Extenders and Inert Fillers (Calcium Carbonates)	410.00	500.00
	K. Red Lead/Red Oxide Primer and Aluminum Paint		
1	Density/Specific Gravity	340.00	410.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
2	Drying Time	130.00	160.00
3	Total Solids	410.00	500.00
4	Non-volatile Vehicle	410.00	500.00
5	Coarse Particles	290.00	350.00
6	Pigment Content	410.00	500.00
7	Pigment Analysis:		
	a. Iron Oxide (Fe ₂ O ₃)	410.00	500.00
	b. Red Lead (Pb ₃ O ₄)	410.00	500.00
8	Analysis of Red Lead and Red Oxide Primer	2,160.00	2,600.00
9	Analysis of Aluminum Pigment	1,370.00	1,650.00
	L. Chemical Admixture		
1	Water Content	200.00	240.00
2	Time of Setting – deviation from control	240.00	290.00
3	Slump Test	200.00	240.00
4	Air Content	200.00	240.00
5	Compressive Strength, % Control - 1 day, 3 days ,7 days, 28 days, 6 months, 1 year	200.00	240.00
6	Flexural Strength, % Control - 3 days, 7 days, 28 days	200.00	240.00
7	Length Change, Max Shrinkage, % Control and Increase over Control (Alternative Requirement)	-	1,000.00
8	Resistance to Freezing and Thawing	-	2,410.00
9	Uniformity and Equivalence Tests (Liquid/Non-Liquid Admixtures):		
	a. Residue by Oven Drying	-	600.00
	b. Specific Gravity	-	660.00
	c. Infrared Analysis (Obtain Infrared Absorption Spectra using Spectrophotometer)	-	620.00
	M. Fiber Rope		
1	Tensile Strength:		
	a. For ropes 1" in nominal size and under	410.00	500.00
	b. Over 1" up to 2" in nominal size	570.00	690.00
	c. Over 2" up to 3" in nominal size	820.00	990.00
	N. PVC Material		
1	Tensile Strength	1,200.00	1,440.00
2	Flexural Strength	1,200.00	1,440.00
3	Notched Izod Impact	780.00	940.00
4	Heat Deflection Temperature	1,200.00	1,440.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
	O. Geotextile		
1	Grab Tensile Length	930.00	1,120.00
2	Elongation	150.00	180.00
3	Puncture Strength	2,616.00	3,140.00
4	Apparent Opening Size	2,976.00	3,580.00
5	Permittivity	660.00	800.00
6	Ultraviolet Degradation	-	2,100.00
7	Melting Point	-	500.00
	P. Carbon Fiber Sheet/Plate		
1	Tensile Strength (Single Strand)	1,320.00	1,590.00
2	Density	-	520.00
	Q. Coconet		
1	Dimension Measurement	140.00	170.00
2	Tensile Strength	1,290.00	1,550.00
3	Elongation	150.00	180.00
4	Water Absorption	220.00	270.00
	R. Seven (7) Wire Strand		
1	Tensile Properties	290.00	350.00
2	Ductility of wire	290.00	350.00
3	Breaking Strength	570.00	690.00
4	Dimension Measurement	140.00	170.00
	S. Active and Passive Protection Systems for Unstable Slope		
1	Accelerated Weathering (Salt Spray) Test, 24 hours	-	2,400.00
2	Accelerated Weathering (Salt Spray) Test, 3,500 hours (includes Tensile Strength Test after Accelerated Weathering)	-	150,000.00
3	Accelerated Weathering (Salt Spray) Test, 1,000 hours (includes Tensile Strength Test after Accelerated Weathering)	-	50,000.00
	X. MISCELLANEOUS SERVICES		
1	Plate Bearing Test and/or Subgrade Modulus Determination (k-value Uncorrected), fixed charge up to 100 tons	6,420.00	7,710.00
2	Load Test on Piles, fixed charge up to 100 tons	11,220.00	13,470.00

**SCHEDULE OF FEES AND CHARGES
FOR LABORATORY TESTING OF CONSTRUCTION MATERIALS**

ITEM NO.	KIND OF TEST/SERVICE	OLD RATE, Php (CY 2020)	NEW RATE, Php (CY 2022)
3	Resistivity Test: a. Rental of Equipment, per day or fraction thereof	1,370.00	1,650.00
4	Concrete Core Drilling: a. Rental of Equipment, per day or fraction thereof b. Per core drilled	740.00 1,370.00	890.00 1,650.00
	XI. SUBSURFACE EXPLORATION		
1	Mobilization	9,050.00	10,860.00
2	Demobilization	11,450.00	13,740.00
3	Drilling Through: a. Ordinary Soil, per Linear Meter b. Gravel/Rocks, using Diamond/Tungsten Bit, per Linear Meter c. Standard Penetration Test (SPT), per SPT	1,530.00 3,020.00 80.00	1,840.00 3,630.00 100.00
4	Hole to Hole Transfer, per move	3,020.00	3,630.00
5	Core Box, per box	1,440.00	1,730.00
6	Miscellaneous Expenses, during operation: a. Diesel Oil for Drilling Machine/Water Pump, per day b. Diesel/Gasoline for Service Vehicle, per day c. Water Supply Source, per day d. Plastic Bags, Pentel Pen, and Other Miscellaneous Expenses	660.00 330.00 240.00 1,440.00	800.00 400.00 290.00 1,730.00