

**INTEGRATED POLYTECHNIC REGIONAL CENTER
KIGALI CITY**

KICUKIRO Campus



BP 6579 Kigali Rwanda
Tel.:0788463186
Website:iprckigali.ac.rw
Email:info@iprckigali.ac.rw

CIVIL ENGINEERING DEPARTMENT

Date: 22/03/2017

COST OF TESTS IN GEOTECHNICAL LABORATORY AT IPRC KIGALI

SN	TEST DESCRIPTION	UNIT	UNIT PRICE (Rwf)
I.	Tests on Soils		
I.1	Moisture content	1	5,400
I.2	Atterberg limits	1	21,600
I.3	Plastic limit only	1	9,600
I.4	Liquid limit only	1	9,600
I.5	Sieve analysis+ hydrometer	1	45,000
I.6	Sieve analysis (wet sieve)	1	21,600
I.7	Sieve analysis (dry sieve)	1	16,800
I.8	Soil PH	1	22,800
I.9	Shrinkage limit(linear)	1	16,800
I.10	Specific gravity	1	21,000
I.11	Swelling test	1	25,000
I.12	Organic matter	1	34,800
I.12	Dynamic Cone penetrometer (equipment charges to be covered by the client)	1	15,000
I.13	Static penetrometer	1	90,000
I.14	Sulfates test	1	37,200
	Compaction test		
I.15	standard proctor	1	27,000
I.16	Modified proctor	1	33,000
I.17	Triaxial test	1	57,000
I.18	Unconfined compressive test(drained)	1	69,000
I.19	unconfined compressive test(undrained)	1	51,000
	CBR test		
I.20	Un soaked	1	22,800
I.21	Soaked 2days	1	28,200



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I.22	Soaked 4days	1	34,800
I.23	In situ CBR without truck	1	40,800
	Bulk density (flood method)		
I.24	Sand replacement	1	28,800
I.25	water balloon	1	21,000
I.26	Core Test	1	>6holes,10,000
I.27	Core Test	1	<6holes,15000
I.28	Shear test	1	37,200
I.29	Permeability	1	34,800
I.30	Consolidation	1	75,000
	Sampling		
I.31	Opening trial pit 1x1m wide up to 1.5 depth	m deep	39,000
I.32	Opening trial pit 1x1m wide exceeding 1.5m	m deep	21,000
I.33	Boring using hand Augers and Sampling	m deep	21,000
II	Tests on Aggregates and Concrete		
II.1	Moisture Content of Aggregates	1	5,400
II.2	Relative Density and Water Absorption	1	21,000
II.3	Sieve Tests on Aggregates	1	16,800
II.4	Flakiness Index (FI) and Average Least Dimension	1	42,000
II.5	Elongation Index	1	42,000
II.6	Aggregate Crushing Value	1	42,000
II.7	Ten Percent Fines Value	1	15,000
II.8	Aggregate Impact Value	1	42,000
II.9	Los Angeles Abrasion Test	1	42,000
II.10	Micro Deval test	1	42,000
II.11	Sodium Soundness Test	1	50,000
II.12	Slump Test	1	6,000
II.13	Sand Equivalent	1	6,000
II.14	Compaction factor	1	15,000
II.15	Air entrainment measuring	1	25,000
II.16	Making of Concrete Test Cubes/Cylinder)	1	1,500

Deep



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II.17	Crushing cubes, cylinder (concrete)	1	2,500
II.18	Crushing cubes (bricks/blocs)	1	2,500
II.19	Maturation of specimen	1/DAY	200
II.20	Concrete Mix Design	1	240,600
II.21	Ultrasonic Pulse velocity	1	25,000
II.22	Rebound Hammer	1	10,000
II.23	Crack detection (by microscope)	1	10,000
II.24	Flexural test	1	6,500
III	Tests on Asphalt and Bituminous Materials		
III.1	Density of Bituminous Binders	1	35,000
III.2	Flash and Fire Point	1	35,000
III.3	Penetration of Bituminous Materials	1	35,000
III.4	Softening Point Test	1	35,000
III.5	Ductility	1	35,000
III.6	Density and Water Absorption of Aggregates	1	35,000
III.7	Bulk Density of Saturated Surface Dry Asphalt Mix	1	35,000
III.8	Bulk Density of Asphalt Mix Samples, Calliper Measurements	1	35,000
III.9	Calculation of Void Content in Bituminous Mixes	1	35,000
III.10	Marshall Test	1	93,000
III.11	Marshall Mix Design	1	350,000
III.12	Viscosity	1	24,000
III.13	Determination of Binder Content and Aggregate Grading by Extraction	1	45,000
IV	Tests on Cement		
IV.1	Fineness	1	21,600
IV.2	Consistency	1	18,000
IV.3	Initial Setting time	1	20,000
IV.4	Soundness	1	21,600
IV.5	Compression Strength	1	55,000
IV.6	Cement Specific gravity	1	45,000
IV.7	Cement Bulk density	1	15,000

Drop



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V	Lab Staff at the site		
V.1	Geotechnical Engineer	1	50,000
V.2	Lab technician/Kigali	1	25,000
V.3	Lab technician/outside Kigali	1	50,000
V.4	Lab attendant/helper	1	15,000

LABORATORY STAFF


1. Mr. Emmanuel NKURIKIYINKA: Laboratory Technician (+250788800131)
2. Mr. Mathias RUGEMA: Laboratory Technician (+250788620619)
3. Mr. Jean Marie HARERIMANA: Laboratory Technician (+250783347835)


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SUPERVISING STAFF

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Eng. MULINDAHABI Djogenc
Principal of IPRC Kigali

The seal of the Integrated Polytechnic Regional Center - IPRC Kigali. It is a circular emblem with a blue border containing the text 'INTEGRATED POLYTECHNIC REGIONAL CENTER - IPRC - KIGALI'. The center of the seal features a stylized gear, a book, and a torch, symbolizing education and technical training.