

List of Test and The Price done in Research and Quality Control Unit

REF	TESTS	Rate (Frw)
Laboratory Test		
Soil Test		
1	Determination of Wet Density	3,300
2	Determination of dry Density	5,600
3	Absolute Density (Détermination du poids volumique absolu par pycnomètre)	6,600
4	Porosity Test	19,700
5	Natural Moisture Content	3,300
6	Proctor Test :	
6.1-	Standard Proctor	20,200
6.2-	Modified Proctor	24,900
7	Sieve Analysis:	
7.1	- Dry Sieve Analysis	13,300
7.2	- Wet Sieve Analysis	19,700
8	Hydrometer Particle Size analysis	23,000
9	Sand Equivalent	6,600
10	Determination of Atterberg Limits	
10.1	- Liquid Limit	8,900
10.2	- Plastic Limit	8,900
10.3	- Limite de retrait	9,900
11	Organic matter Content	23,000
12	CBR Test	
12.1-	On compacted and saturated sample at the optimum after 4 days soaking	26,600
12.2-	On the compacted and saturated with the natural water content of the sample	16,400
12.3-	On the intact sample	13,200
Aggregate Test		
13	Los Angeles	32,800
14	Micro-Deval	32,800
15	Flakiness Index	11,150
16	Methylene Blue Test	9,900

Soil Test on Field		
	In Situ Test	
17	Density in Situ by Sand Replacement method	15,000
18	Density in Situ by balloon density	15,000
19	Determination of Dry Density and Moisture Content by Troxler (Gamma Densitometer)	27,700
20	Benkelman Beam (Without a Track)	24,200
21	Plate Loading (Without a Track)	27,100
21	Light Weight Dynamic Penetrometer	19,420
Concrete		
	Test on Cement; Cement Paste; mortar; Fresh Concrete & Hard Concrete	
1	Setting Time on Cement	6,600
2	Consistency of cement	6,600
3	Density (Volumetric)	3,700
4	Density (Pycnometer)	7,300
5	Le Chatelier Expansion	11,800
6	Concrete Compression Test	2,700
7	Slump Test	6,600
8	Concrete Hammer Rebound	10,500
	Bitumen & Asphalt	
1	Vialit Test	24,600
2	Extraction of Bitumen	30,500
3	Marshall Test on Asphalt	114,700
4	Mix design of Asphalt with 3 different Bitumen Composition	98,300
5	Penetration Test	8,900
6	Softening Point Ring and Ball	24,600
7	Viscosity	31,200

RWANDA TRANSPORT DEVELOPMENT AGENCY / NATIONAL SOIL LABORATORY

A. SERVICE OFFERED BY RESEARCH AND QUALITY CONTROL UNIT

1. Applying for Material testing (soil, aggregates, bitumen, cement and concrete)

What the Service am I eligible?	<p><i>Any private or public agency or an individual can apply for service of the laboratory for quality control to ensure the sustainability of his work (ouvrage) or for counter checking to ensure that standards have been respected at the end of the work.</i></p> <p><i>The Unit of Research and Quality Control tests the soil, aggregates, cement, concrete and bitumen.</i></p>
Department to be approached	<i>Research and Quality Control Unit</i>
Where can I access the service?	<i>Research & Quality Control Unit / National Laboratory for Public Works at Gikondo (Road MAGERWA-PSF)</i>
When can I access the service?	<i>Monday to Friday, from 7:00 a.m to 5:00 p.m</i>
Once a request is made or an application is submitted, how long will it take?	<p><i>-For aggregates, bitumen and concrete crushing when the sample is received for testing, it takes not more than 5 hours;</i></p> <p><i>- For complete identification of Concrete, the result can be provided within 7 or 14days, according to the demand of the client;</i></p> <p><i>- In Situ test, the result is provided the same day but the result can be extended due to the distance or/and the number of test to be conducted</i></p> <p><i>- For soil identification, the result is provided within 5 days. The time should be extended due to number of samples to be tested.</i></p>
What, if any, are the costs for	<i>Please refer to appendix no1 for more details about works.</i>
What documents are required?	<i>An approval letter signed by RTDA Director General for a free service or Bank slip</i>
What is the procedure?	<p><i>- Pay to Rwanda Revenue Authority (RRA) Bank Account</i></p> <p><i>- Introduce himself to the receptionist with RRA receipt and the sample, if it is about bitumen, complete identification and of the concrete crushing. For soil and aggregates, the sampling is done by the laboratory technician ;</i></p>

	- <i>The results are delivered to the date given by the Responsible of the laboratory.</i>
What, if any, other institutions do I need to visit to access the service? (Eg. for payment of service costs or to get additional documents)	- <i>Rwanda Revenue Authority for payment receipt</i> - <i>RTDA for approval letter for free service</i>
Is there a complaint procedure?	<i>Complaint letter can be addressed to the Director of Research and Quality Control Unit</i>
Is there any additional information regarding this service that is useful to know?	<i>Get further information at the Office of Research and Quality Control Unit.</i> <i>E-mail: labo@rtda.gov.rw</i>
Available forms	<i>No available form</i>
Relevant legal documents	<i>None</i>

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