Hellenic Accreditation System

Annex F1/7 to the Certificate No. **1126**-2

SCOPE of ACCREDITATION

of the

Heracles Environmental Laboratory

of the

HERACLES GENERAL CEMENT COMPANY

Materials / Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Chemical tests		
Cement/ Clinker/ Raw Meal	1. Chemical analysis of cement/clinker/raw meal by X-ray fluorescence (Determination of CaO, MgO)	ISO 29581-2:2010
Raw meal and raw materials	2. Determination of carbon dioxide_	In house method MDX-2 based on European Standard EN 196-2: 2013 (§ 4.5.17)
	3. Determination of Total Organic Carbon in raw meal and raw materials of cement	In house method MDX-10 based on European Standards EN 13639 clause 8 and ISO 29541
Solid mineral fuels	1. Determination of gross calorific value by the bomb calorimetric method and calculation of net calorific value	ISO 1928: 2020
	2. Determination of total carbon, hydrogen and nitrogen	ISO 29541: 2010
	3. Determination of moisture in the general analysis test sample (coke)	ISO 687: 2010
	4. Determination of ash	ISO 1171: 2010

Materials / Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Chemical tests		
Solid recovered fuels	1. Determination of calorific value	EN ISO 21654:2021
	2. Determination of chlorine (Cl)	EN 15408: 2011 and ISO 9297: 1989
	3. Determination of moisture content using the oven dry method. Moisture in general analysis	ISO 21660-3:2021
	4. Determination of ash content of SRF category E Plastic /paper fluff (Method A)	EN ISO 21656:2021
	5. Determination of carbon (C), hydrogen (H) and nitrogen (N) content of SRF matrices D &E	EN ISO 21663:2021
Raw materials, solid mineral fuels and solid recovered fuels	1. Determination of total mercury in raw materials, solid mineral fuels and solid recovered fuels (MDX-9)	In house method MDX-9 based on Lafarge method “Determination of total mercury in solid and liquid samples”v.1, Sept 2012

Site of assessment: **Permanent laboratory premises, Milaki plant, Milaki Aliveriou, Evoia Greece.**
Approved signatories: **Thalassis Karkaletsis , Maria Charitou.**

This scope of Accreditation replaces the previous one dated 18.03.2022.
The Accreditation Certificate No. 1126-2, to ELOT EN ISO/IEC 17025: 2017, is valid until 15.03.2026.

Athens, 23.01.2023

Christos Nestoras
CEO of ESYD