



CERTIFICATE OF ACCREDITATION

This is to attest that

MUDIAME INTERNATIONAL LIMITED

PLOT 105, IGBO-ETCHE ROAD, OPPOSITE ENERCO, RUMUOKWURUSI, PORT-HARCOURT
RIVERS STATE 234, FEDERAL REPUBLIC OF NIGERIA

Testing Laboratory TL-650

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date July 1, 2024



A handwritten signature in black ink, reading 'Rey Nathan'.

President

IAS is an ILAC MRA Signatory

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

MUDIAME INTERNATIONAL LIMITED

www.mudiame.com/ng

Contact Name OSOIKHIA COLBURN

Contact Phone +234-7036426482

Accredited to ISO/IEC 17025:2017

Effective Date July 1, 2024

Chemical	
ASTM C115	Standard test method for chemical analysis of hydraulic cement (clause 5.3 and 5.4)
ASTM D1125	Electrical conductivity and resistivity of water
ASTM D1293	Standard test method for pH in water
ASTM D4294	Standard test method for sulfur in petroleum and petroleum products by energy dispersive x-ray fluorescence spectrometry
ASTM D6481	Standard test method for determination of phosphorus, sulfur, calcium and zinc in lubrication oils by energy dispersive x-ray fluorescence spectroscopy
ASTM E415	Standard test method for analysis of carbon & low-alloy steel by spark atomic emission spectrometry
ASTM E1086	Standard test method for analysis of austenitic stainless steel by spark atomic emission spectrometry
ASTM E1476	Standard guide for metals identification, grade verification and sorting: [x-ray fluorescence spectrometry (portable) – optical emission spectrometry (portable)] (clause 4.6.1.1)
BS 1377	Methods of test for soils for civil engineering purposes part 3: chemical and electro-chemical tests- determination of the pH value: Procedure for the determination of chloride and sulphate in soil using EDXRF method pH in soil chloride and sulphate /MIL-MECH-CC-PROC-046 (test 9)
DIN EN ISO 8249	Ferrite content determination (via portable ferrite meter)
MIL-MECH-CC-PRO-041	Colorimetric analysis of water (Hanna hi 82300 spectrophotometer)- iron, chromium, phosphate, zinc, free chlorine, total chlorine, sulfate, manganese, copper, nitrite, nitrate, calcium hardness, ammonia, turbidity (hydrazine) and alkalinity
CMT	
ASTM C29	Standard test method for bulk density and voids in aggregate
ASTM C109	Standard test method for compressive strength test of hydraulic cement mortar
ASTM C117	Standard test method for materials finer than 75 micron
ASTM C127	Standard test method for relative density (specific gravity) and absorption of coarse aggregate

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ASTM C128	Standard test method for relative density (specific gravity) and absorption of fine aggregate
ASTM C136	Standard test method for sieve analysis of fine and coarse aggregates
ASTM C142	Standard test method for clay lumps and friable particles in aggregate
ASTM C172/C172M	Standard practice for sampling freshly mixed concrete
ASTM C187	Standard test method for consistency of hydraulic paste
ASTM C191	Standard test method for time of setting of hydraulic cement by Vicat needle
ASTM C231/C231M	Standard test method for air content determination of fresh concrete
ASTM C566	Standard test method for total evaporable moisture content of aggregates and soils
ASTM C611	Standard test method for self-compacting concrete of hydraulic cement
ASTM D698	Standard test method for laboratory compaction characteristics of soil using standard method
ASTM D1557	Standard test method for laboratory compaction characteristics of soil using modified method
ASTM D1883	Standard test method for California bearing ratio (CBR) of laboratory-compacted soils
ASTM D2216	Standard test method for laboratory determination of water (moisture) content of soil and rock by mass
ASTM D2937	Standard test method for density of soil in place by the drive-cylinder method
ASTM D4318	Standard test method for liquid limit, plastic limit and plasticity index of soil
ASTM D4944	Standard test method for field determination of water (moisture) content of soil by the calcium carbide gas pressure tester
BS 812:2	Testing aggregates- methods for determination of density
BS 812:105	Testing aggregates- methods for determination of particle shape- elongation index of coarse aggregate
BS 812:110	Testing aggregates- methods for determination of aggregate crushing value (ACV)
BS EN 12390-3	Testing hardened concrete- compressive strength of test specimens
Environmental	
ASTM A262	Standard practices for detecting susceptibility to intergranular attack in austenitic stainless steels
ASTM A923	Detection of detrimental intermetallic phase in stainless steels (method A and C)
ASTM G28	Standard test methods for detecting susceptibility to intergranular corrosion in wrought, nickel-rich, chromium-bearing alloys
ASTM G46	Standard guide for examination and evaluation of pitting corrosion

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ASTM G48	Standard test methods for pitting and crevice corrosion resistance of stainless steels and related alloys by use of ferric chloride solution
ISO 3651-2	Determination of resistance to intergranular corrosion of stainless steels -part 2: ferritic, austenitic and ferritic-austenitic (duplex) stainless steels - corrosion test in media containing sulfuric acid
Mechanical	
ASM Handbook	Failure Analysis and Prevention (vol. 9 and 11)
ASME Section IX	Welding & brazing qualifications
ASTM A370	Standard test methods and definitions for mechanical testing of steel products
ASTM E3	Standard guide for preparation of metallographic specimens
ASTM E8/E8M	Standard test methods for tension testing of metallic materials
ASTM E18	Standard test methods for Rockwell hardness of metallic materials
ASTM E23	Standard test methods for notched bar impact testing of metallic materials
ASTM E140	Standard hardness conversion tables for metals relationship among Brinell hardness, Vickers hardness, Rockwell hardness, superficial hardness, Knoop hardness, scleroscope hardness, and Leeb hardness
ASTM E190	Standard test method for guided bend test for ductility of welds
ASTM E340	Standard practice for macro-etching metals and alloys
ASTM E384	Standard test method for Knoop and Vickers hardness of materials
ASTM E407	Standard practice for micro-etching metals and alloys
ASTM E562	Standard test method for determining volume fraction by systematic manual point count
API 1104	Welding of pipelines and related facilities
AWS D1.1	Structural welding code – steel. Section 4 (Qualification test), except clause 4.5, items 1 and 2
BS 4449:	Steel for the reinforcement of concrete- weldable reinforcing
BS EN ISO 6892-1	Metallic materials- tensile testing- method of test at ambient temperature
ISO 4136	Destructive tests on welds in metallic materials—transverse tensile test
ISO 5173	Destructive tests on welds in metallic materials -- bend tests
ISO 5817	Welding -- fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) -- quality levels for imperfections
ISO 6507-1	Metallic materials - Vickers hardness test- part 1: test method
ISO 6507-2	Metallic materials- Vickers hardness test- part 2: verification and calibration of testing machines
ISO 6507-4	Metallic materials -- Vickers hardness test- part 4: tables of hardness values
ISO 6508-1	Metallic materials -- Rockwell hardness test- part 1: test method

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ISO 6520-1	Welding and allied processes – classification of geometric imperfections in metallic materials - part 1: fusion welding
ISO 6520-2	Welding and allied processes - - classification of geometric imperfections in metallic materials - part 2: welding with pressure
ISO 6892-1	Metallic materials - tensile testing - part 1: method of test at room temperature
ISO 15614-1	Specification and qualification of welding procedures for metallic materials -- welding procedure test -- part 1: arc and gas welding of steels and arc welding of nickel and nickel alloys
ISO 15630	Steel for the reinforcement and pre-stressing of concrete – test methods- part 2: welded fabric
ISO 17845	Welding and allied processes - classification of irregularities