



UGANDA NATIONAL BUREAU OF STANDARDS

CERTIFICATE OF LABORATORY RECOGNITION

Certificate No: UNBS/LRS/0010

This certificate is valid as per the scope stated in the accompanying schedule of recognition, Annex "A" which is an integral part of the present certificate bearing the above recognition number for

Chemical and Mechanical Testing of Steel and Steel Products.

In accordance with the recognised International Standard **ISO/IEC 17025:2017**

Being supplied to

STEEL AND TUBE INDUSTRIES LIMITED

P. O. Box 33784, Kampala, Uganda.
Plot 736, Block 113, Namanve Industrial Area, Mukono District, Uganda.

The recognition demonstrates technical competence and the operation of a laboratory quality management system to perform the testing as described in the Annex. While this certificate remains valid, the recognised laboratory above is authorised to use the relevant UNBS recognition number to issue facility reports and /or certificates.

Recognition Decision Date: 2023-06-12
Date of original issue: 2017-05-11
Certificate Issue No: 03

Effective Date: 2023-06-12
Expiry date: 2026-05-10
Certificate Issue date: 2023-06-12

Executive Director
UGANDA NATIONAL BUREAU OF STANDARDS



ANNEX A

SCHEDULE OF RECOGNITION – TESTING LABORATORIES

Facility Number	UNBS/LRS/0010	S/N	Technical Signatories	Method
Steel and Tube Industries Limited P.O. Box 33784, Kampala, Uganda. Plot 736, Block 113, Namanve Industrial Area, Mukono District, Uganda.		1.	Mr. Kayanga Muhammed (Technical Signatory & Analyst)	ASTM E415-21, ASTM E18-22, ISO 15630-1: 2019, ISO 6892-1:2019, US EAS 468: 2019, US EAS 11:2019 & US EAS 410:2021
		2.	Ms. Bulya Barbra Grace (Analyst)	ASTM E415-21, ASTM E18-22, US EAS 134:2019 & US EAS 196:2022
		3.	Mr. Seguya David (Analyst)	ISO 15630-1:2019, ISO 6892-1:2019 and ASTM E18-22
		4.	Mr. Yiga Peter (Analyst)	ISO 15630-1:2019, ISO 6892-1:2019 and ASTM E18-22
		5	Mr. Mukello Emma	ASTM E415-21, US ISO 657- Parts 1, 2 & 5
		6	Mr. Mukhwana Alexander	ISO 6892-1:2019 & ISO 15630-1:2019, US EAS 914:2019
		7	Ms. Nabwami Angel Daphine	ISO 6892-1:2019, ISO 15630-1:2019, US EAS 135:2021, or ISO 7989-2:2021, US EAS 914:2019
		8	Mrs. Ahereza Janith	ISO 6892-1:2019, ISO 15630-1:2019, US EAS 135:2021, or ISO 7989-2:2021, US EAS 412-2:2019
		9	Mr. Suryakant Prasad	ASTM E415-21, ASTM E18-22, ISO 6892-1:2019 & ISO 15630-1:2019, US ISO 657- Parts 1, 2 & 5
Material or products tested	Type of tests/property measured, Range of Measurement	Standard specifications, Techniques/Equipment used		
TESTING FIELD – CHEMICAL AND MECHANICAL ANALYSIS				
Steel Billets	Chemical Analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Molybdenum, Aluminium,	Testing using a spectrometer as per the US EAS 412-2:2019. ASTM E415-21.		

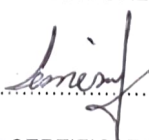
	Vanadium, Copper, Boron, Zinc, Iron, Cobalt	
Thermax Powered Bars (TMX)	Chemical Analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Nitrogen, Molybdenum, Aluminium, Copper, Boron, Zinc, Iron, Cobalt	Spectrometer as per US EAS 412-2: 2019 Standard. ASTM E415-21
	Weight per meter and Cross sectional Area	Weighing Scale and measuring tape. ISO 15630-1:2019 and ISO 6892-1:2019
	Yield Strength, Tensile Strength, Bend Test and Percentage Elongation	Universal testing machine (UTM) as per US EAS 412-2:2019. ISO 15630-1:2019 and ISO 6892-1:2019
Plain Bars	Chemical Analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Molybdenum, Aluminium, Vanadium, Copper, Boron, Zinc, Iron, Cobalt)	Spectrometer as per US EAS 412-1: 2019. ASTM 415-21
	Weight per meter and cross sectional area	Weighing Scale and measuring tape as per US EAS 412-1: 2019. ISO 15630-1:2019 and ISO 6892-1:2019
	Yield Strength, Tensile Strength and Percentage Elongation	Universal Testing Machine as per 412-1: 2019. ISO 15630-1:2019 and ISO 6892-1:2019
Angle Bars, Z, T and T-Sections	Chemical analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Molybdenum, Aluminium, Vanadium, Copper, Boron, Zinc, Iron, Cobalt	Spectrometer. ASTM E415-21, US ISO 657- Parts 1, 2 & 5
	Weight per meter and cross sectional area	Weighing Scale and Measuring tape. ISO 15630-1:2019 and ISO 6892-1:2019
	Yield Strength, Tensile Strength, and Percentage Elongation	Universal Testing Machine (UTM). ISO 6892-1:2019 and ISO 15630-1:2019
Wire Rods	Chemical analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Molybdenum, Aluminium, Vanadium, Copper, Boron, Zinc, Iron, Cobalt	Spectrometer. ASTM E415-21.
	Weight per meter and cross sectional area	Weighing Scale and Measuring tape. ISO 15630-1:2019 and ISO 6892-1:2019
	Yield Strength and Tensile Strength	Universal testing machine (UTM). ISO 15630-1:2019 and ISO 6892-1:2019
Wire Nails	Chemical analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium,	ASTM E415-21

	Molybdenum, Aluminium, Vanadium, Copper, Boron, Zinc, Iron, Cobalt	
	Tensile strength and dimensions	US EAS 914:2019, ISO 15630-1:2019 & ISO 6892-1:2019
Metallic Garden tools	Chemical Analysis (in %) for Carbon, Manganese, Silicon, Phosphorous, Sulphur, Nitrogen, Vanadium, Chromium, Nickel, Molybdenum, Zinc, Boron, Iron, Cobalt	Spectrometer. ASTM E415-21
	Hardness Testing	Rockwell hardness Tester. ASTM E18-22
Hollow Sections and Open profiles	Chemical Analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Molybdenum, Aluminium, Vanadium, Copper, Boron, Zinc, Iron, Cobalt	Spectrometer; ASTM E415-21, US EAS 134:2019 & US EAS 196:2022
	Weight per meter	Weighing Scale, micrometer screw gauge, Vernier caliper and Tape Measure. ISO 6892-1:2019
	Yield Strength, Tensile Strength and Percentage Elongation	Universal Testing Machine (UTM); ISO 6892-1:2019, US EAS 134:2019
Steel Plates	Chemical Analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Molybdenum, Aluminium, Vanadium, Copper, Boron, Zinc, Iron, Cobalt	Spectrometer; ASTM E415-21, US EAS 196:2022
	Yield strength and Tensile Strength	ISO 6892-1:2019 & US EAS 196:2022
Galvanised Wire and products (Barbed wire & chain wire)	Zinc Coating Mass	Wet Analysis with antimony trichloride. ISO 7989-2:2021, US EAS 135:2021
	Physical Diameter	Micrometre Screw gauge. ISO 7989-2:2021, US EAS 135:2021
	Tensile Strength, Cross Sectional area and % Elongation.	Universal Testing Machine (UTM). ISO 7989-2:2021, US EAS 135:2021
Hot Rolled Coils (HRC)	Chemical Analysis (in %) for Carbon, Silicon, Manganese, Phosphorous, Sulphur, Nickel, Chromium, Molybdenum, Aluminium, Vanadium, Copper, Boron, Zinc, Iron, Cobalt	Spectrometer. US EAS 108: 2013, ASTM E415-17
	Hardness	Rockwell Hardness Tester. US EAS 108:2013, ASTM E18-22

	Tensile Strength, Percentage Elongation and Physical Dimensions	Universal Testing Machine, Vanier Calliper. ISO 15630-1:2019 and ISO 6892-1:2019
Galvanised and Aluzinc plain Materials	Coating Mass	Antimony Chloride. ISO 7989-2:2021, US EAS 410:2021 & US EAS 11: 2019
	Physical Dimensions	Micrometre Screw gauge, Vanier Calliper. ISO 7989-2:2021, US EAS 410:2021 & US EAS 11: 2019
	Hardness Test	Rockwell Hardness Tester. US EAS 410: 2021, US EAS 11: 2019. ASTM E18-22
Galvanised & Aluzinc Ordinary Corrugated Sample	Coating Mass	Antimony Chloride. ISO 7989-2:2021& US EAS 11:2019
	Physical Dimensions	Micrometre screw gauge, Vanier calliper, US EAS 11:2019
	Hardness Test	Rockwell Hardness Tester. ASTM E18-22
Pre-painted Galvanised & Aluzinc Coated Plain Steel Sheets	Physical Dimensions	Micrometre Screw gauge, Vanier Calliper, US EAS 468:2019
	Durability Test, Hardness Test	Rockwell Hardness Tester. US EAS 410: 2021. ASTM E18-22.
Pre-painted Galvanised & Aluzinc Ordinary Sheets and Ordinary Corrugated Sheets	Paint coating, Dry Film Thickness	Methyl Ethyl Ketone (MEK) test. US EAS 468:2019
	Physical dimensions	Vanier Calliper, Micrometre Screw gauge. US EAS 468: 2019, US EAS 11:2019 & US EAS 410:2021
	Durability Test, Hardness Test, Paint Coating Adherence	Rockwell Hardness Tester. US EAS 410: 2021, ASTM E18-22

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MANAGER CERTIFICATION DEPARTMENT