CERTIFICATE OF ACCREDITATION

This is to attest that

SAUDI IRON & STEEL COMPANY (HADEED)

AL-JUBAIL INDUSTRIAL CITY 31961, EASTERN PROVINCE, P.O.BOX: 10053
AL-JUBAIL 31481, SAUDI ARABIA

Testing Laboratory TL-693

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 March 7, 2025

International Accreditation Service
Issued under the authority of IAS management

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

SAUDI IRON & STEEL COMPANY (HADEED)

Contact Name Musaed Al-Zahrani **Contact Phone** +966-133571304

Accredited to ISO/IEC 17025:2017 *Effective Date March 7, 2025*

Mechanical Testing	
ASTM E8 / E8M	Standard Test Method for Tension Testing of Metallic Materials
ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials
ASTM E92	Standard Test Method for Vickers Hardness of Metallic Materials
ASTM E290	Standard Test Methods for Bend Testing of Material for Ductility Inclusion - 4.1.3 Free-bend Tests
API RP 5L3	Drop Weight Tear Tests on Line Pipe
ISO 148-1	Metallic Materials-Charpy pendulum impact test-Part 1
ISO 6507-1	Metallic materials — Vickers hardness test — Part 1
ISO 6892-1	Metallic Materials-Tensile testing-Part 1: Method of testing at room temperature
ISO 7438	Metallic Materials-Bend test Inclusion -c) bending device with a clamp
Chemical Testing	
ASTM E415	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry. Refer to Appendix 1of this document for Range of Chemical Analysis
CEN/TE 10261	Iron and steel - European standards for the determination of chemical composition Inclusion - 4.1 Mono-elemental methods
TM-PSQA65-006	Testing of Direct Reduced Iron Using XRD/XRF

Appendix 1

Element	Applicable Range, Mass Fraction %	Quantitative Range, Mass Fraction %
Aluminum	0 to 0.093	0.006 to 0.093
Antimony	0 to 0.027	0.006 to 0.027
Arsenic	0 to 0.1	0.003 to 0.1
Boron	0 to 0.007	0.0004 to 0.007
Calcium	0 to 0.003	0.002 to 0.003
Carbon	0 to 1.1	0.02 to 1.1
Chromium	0 to 8.2	0.007 to 8.14
Cobalt	0 to 0.20	0.006 to 0.20
Copper	0 to 0.5	0.006 to 0.5
Manganese	0 to 2.0	0.03 to 2.0
Molybdenum	0 to 1.33	0.007 to 1.3
Nickel	0 to 5.0	0.006 to 5.0
Niobium	0 to 0.12	0.003 to 0.12
Nitrogen	0 to 0.015	0.01 to 0.055
Phosphorous	0 to 0.085	0.006 to 0.085
Silicon	0 to 1.54	0.02 to 1.54
Sulfur	0 to 0.055	0.001 to 0.055
Tin	0 to 0.061	0.005 to 0.061
Titanium	0 to 0.2	0.001 to 0.2
Vanadium	0 to 0.3	0.003 to 0.3
Zirconium	0 to 0.05	0.01 to 0.05