

Schedule of Accreditation
for Testing Laboratory According to ISO/IEC 17025
Issued to

Central Laboratory & Flat Laboratories
Al Ezz Dekheila Steel Company (EZDK)

Schedule No.: 20660B Issue No.(3) :September 5, 2016

1st accreditation date: August 5, 2008

Revision No. (2): December 4, 2018

Valid to : August 4, 2020

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)	Standard Specifications / Techniques Used	
Iron Ore	Determination of Various Elements by X-ray Fluorescence Spectrometric	Mn	0.020-0.820
		Si	0.200-6.500
		P	0.006-0.600
		Al	0.100-3.500
		Ti	0.016-0.150
		Ca	0.019-12.700
		Mg	0.200-1.210
		Si	0.440-9.400
		Al	0.070-3.300
		Ti	0.018-0.170
		Ca	0.012-6.800
		Mg	0.008-1.900
		Mn	0.012-1.70
P	0.011-1.60		
	Determination of Total Iron by Dichromate Titration	ASTM E 246 10-2015	Balance Manufacturer Sartorius AG Gottingen, Germany Model BP 61S . S.N 90904371
	Determination of Iron Oxide (FeO) by Dichromate Titration	ASTM D 3872:2011 Iso 3082:2009	Balance Manufacturer Mettler, Switzerland Model PJ12 . S.N k 63791 Oven Manufacturer Tokyo, Japan Model FS-63D . S.N 75007
	Determination of the Moisture Content	ISO 3087:2011 Iso 3082:2009	Balance Manufacturer Mettler, Switzerland Model PJ12 . S.N k 63791 Oven Manufacturer Tokyo, Japan Model FS-63D . S.N 75007

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Industrial Investment Map: <http://investegypt.com>: مصر: المنطقة الرسمية للخرطة الاستثمارية

كورنيش المندي - برج ريدس المندي - القاهرة - مصر
هاتف: ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢) ٢٥٢٧٥٢٢٤ (٢٠٢)

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Al Ezz Dekheila Steel Company (EZDK)

El- Dekheila Alexandria - Egypt

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		ASTM E 415:2014	Optical Emission Spectrometer Manufacturer Thermo Fisher, Switzerland Model ARL 3460 S.Ns AA81805-20 .1590.2342 Model ARL 4460 S.Ns 300.945
Carbon & Low Alloy Steel (Long & Flat)	Determination of various Elements by Optical Emission Vacuum Spectrometric Analysis	C	0.030-1.100
		Min	0.040-2.000
		Si	0.010-1.150
		S	0.001-0.055
		P	0.002-0.085
		V	0.001-0.3%0
		Al	0.010-0.075
		Ti	0.003-0.200
		B	0.0005-0.007
		Cu	0.010-0.500
		Ni	0.010-5.000
		Cr	0.010-2.250
		Nb	0.003-0.085
		Mo	0.010-0.600
N	0.002-0.015		
Ca	0.001-0.003		
Sn	0.008-0.045		

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		ASTM E 1019:2011	Carbon Sulfur Analyzer Manufacturer LECO, USA Model CS-400 ,S,N 2002 Model CS-400 ,S,N 2002 Carbon Sulfur Eltra, Germany Model CS2000, S,N 4667131001 Oxygen Nitrogen Analyzer Manufacturer LECO, USA Model TC - 436, S,N 3802
Carbon & Low Alloy Steel (Long and Flat)	Determination of Carbon, Sulfur, Nitrogen & Oxygen by Inert Gas Fusion Infrared Absorption / Thermal Conductivity Method	C	0.001 - 4.500
		S	0.002 - 0.350
		O	0.0005- 0030
Low Alloy Steel (long)	Bar Geometry test • Transverse rib height , width , spacing , angle , flank angle and free circumferential • Longitudinal rib height, width and flank angle	N	0.005 - 0.500
		BS EN ISO 15630-1:2010	Rib Measurement Device Manufacturer ECM Datensysteme GmbH ,Germany Model RM302




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Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used
Low Alloy Steel (long & flat)	Tensile test at Ambient Temperature <ul style="list-style-type: none">Yield StrengthTensile StrengthElongation	BS EN ISO 6892-1:2009 ASTM E8/E8M-15a BS EN ISO 15630-1:2010 API 5L:2012 ASTM A370-16 JIS Z2241:2011 ES:262-1/2009 ISO:6935-1/2007) ES:262-2/2009 ISO:6935-2/2007) Universal Testing Machine Manufacturer ZWICK, Germany Model Z 600 , S.N 131072 Model Z 1200 , S.N 131079 Model Zwick BT1-FR250SN-A4K S.N 170342 Universal Testing Machine Model Zwick BT1 – FR 250 SN – A4K S.N 170342 Universal Testing Machine Manufacturer SHIMADZU, Japan Model UH 1000 kN, S.N I211103600039 Model UH 30A, S.N 121033700050 Model AG-10 TG, S.N 130103600815



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Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	Bending & Re-bending Machine Manufacturer Muba , Germany Model Bo 40P200 S.N 3005796486953 Universal Testing Machine Manufacturer ZWICK , Germany Model Z1200 , S.N 131079 Universal Testing Machine Manufacturer SHIMADZU , Japan Model UH 1000 KN, S.N 1211103600039 Model AG-10 TG ,S.N 130103600815 Impact Testeraet , Germany Model RKP 300/450 , S.N 10/990607
Low Alloy Steel (long & flat)	Bend Test Charpy Impact Test (Absorbed Energy) (Flat) range 0-300 joule Unit Weight test	JIS Z2248:2006 ASTM E 290-.2014 ES 1234:2007 BS EN ISO 15630-1:2010 ASTM A370:2014 ISO 7438: 2016	
	Determination of Rockwell hardness test HRA 6.6-86.0 HRB 20.3-68.0 HRC 19.9-105	ASTM E18-14a ASTM A370:2014	Balance Model IB16EDE-S S N 70404608 Model PGL 10001 S N AEV 1560 made UK Rockwell Hardness Tester Manufacturer Wilson,England Model RB2000-R

M. El-Sherpieny

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Low Alloy Steel	Determination of Average Grain Size Determination of Inclusion Content Determination of Depth of Decarburization Determination of Crack Depth Determination of Phase Percentage	ASTM E 112:2013 ASTM E 1382-97:2010 ASTM E 45 :2013 JIS G 0558:2007	Image analyzer-Zeiss software Axiovision Rel.4.6 Operation manual.
Iron Ore	Determination of Size Distribution	ISO 4701:2008	Sieves Manufacturer Yoshida Seisakusao, Japan Model Square S.N 1117-5, 1117-6, 1117-9, 1117-12, 1117-16, 1117-18, 1117-19.1, ES10334 & ES 10335 Balance Model IB16EDE-S S N 70404608
	Determination of Crushing Strength	ISO 4700:2007	Crushing Strength Machine Manufacturer Automatica , Brazil Model Compression Testing Machine S.N 130

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Industrial Investment Map: <http://invegypt.com>: مصر: الخريطة الاقتصادية في مصر

كورنيش المادي - برج رياض المادي - القاهرة - مصر

تلفون : 25275220 / 25275224 / 25275224 (202)

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