

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Venture Gulf Unitech Metallurgical Services W.L.L

Street No: 24, Gate No: 151, Salwa Industrial Area,

P.O. Box 96712, Doha, Qatar

has been assessed and accredited in accordance with the Standard

ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of

Testing

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued compliance to the above standard & any other requirements specified by QAI.



QAI/CIA/TL/2023/0026

(Date of First Accreditation: 27 Sep 2023 - 26 Sep 2025)

Valid from: 27 September 2025

Valid until: 26 September 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: www.qai.org.in



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
1.	Ferrous Metals	Tensile Stress	ASTM A370 – 24
2.		0.2 % Proof Stress	ASTM A370 – 24
3.		0.5 % Proof Stress	ASTM A370 – 24
4.		1.0 % Proof Stress	ASTM A370 – 24
5.		Yield Stress	ASTM A370 – 24
6.		Elongation	ASTM A370 – 24
7.		Reduction of Area	ASTM A370 – 24
8.	Ferrous Metals, Nonferrous Metals	Tensile Stress	ASTM E8/E8M – 24
9.		0.2 % Proof Stress	ASTM E8/E8M – 24
10.		0.5 % Proof Stress	ASTM E8/E8M – 24
11.		1.0 % Proof Stress	ASTM E8/E8M – 24
12.		Yield Stress	ASTM E8/E8M – 24
13.	Ferrous Metals, Nonferrous Metals	Elongation	ASTM E8/E8M – 24
14.		Reduction of Area	ASTM E8/E8M – 24
15.	Nonferrous Metals	Tensile Stress	ASTM B557 - 15 (Reapproved 2023)
16.		0.2 % Proof Stress	ASTM B557 - 15 (Reapproved 2023)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
17.		0.5 % Proof Stress	ASTM B557 - 15 (Reapproved 2023)
18.		1.0 % Proof Stress	ASTM B557 - 15 (Reapproved 2023)
19.		Yield Stress	ASTM B557 - 15 (Reapproved 2023)
20.		Elongation	ASTM B557 - 15 (Reapproved 2023)
21.		Reduction of Area	ASTM B557 - 15 (Reapproved 2023)
22.	Ferrous Metals	Reduction of Area	ASTM A770/A770M - 03 (Reapproved 2025)
23.	Ferrous Metals, Nonferrous Metals	Tensile Stress	IS 1608 (Part 1): 2022
24.		0.2 % Proof Stress	IS 1608 (Part 1): 2022
25.		0.5 % Proof Stress	IS 1608 (Part 1): 2022
26.		1.0 % Proof Stress	IS 1608 (Part 1): 2022
27.		Yield Stress	IS 1608 (Part 1): 2022
28.	Ferrous Metals, Nonferrous Metals	Elongation	IS 1608 (Part 1): 2022
29.		Reduction of Area	IS 1608 (Part 1): 2022
30.		Tensile Stress	ISO 6892-1: 2019
31.		0.2 % Proof Stress	ISO 6892-1: 2019
32.		0.5 % Proof Stress	ISO 6892-1: 2019

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
33.		1.0 % Proof Stress	ISO 6892-1: 2019
34.		Yield Stress	ISO 6892-1: 2019
35.		Elongation	ISO 6892-1: 2019
36.		Reduction of Area	ISO 6892-1: 2019
37.	Ferrous Metals, Nonferrous Metals	Tensile Stress	JIS Z 2241: 2022
38.		0.2 % Proof Stress	JIS Z 2241: 2022
39.		0.5 % Proof Stress	JIS Z 2241: 2022
40.		1.0 % Proof Stress	JIS Z 2241: 2022
41.		Yield Stress	JIS Z 2241: 2022
42.		Elongation	JIS Z 2241: 2022
43.		Reduction of Area	JIS Z 2241: 2022
44.	Ferrous Metals	Reduction of Area	ISO 7778: 2014
45.	Welding Pipeline	Tensile Stress	API STD 1104: 2021
46.	Welded Ferrous and Nonferrous Metals	Tensile Stress	ASME BPVC SECTION IX - 2025
47.		Tensile Stress	AWS D 1.1/D1.1M: 2025
48.	Welded TMT Bar / Reinforcement Bar	Tensile Stress	AWS D 1.4/D1.4M: 2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
49.	Welded Ferrous and Nonferrous Metals	Tensile Stress	AWS D 1.5/D1.5M: 2020
50.	Welded Ferrous and Nonferrous Metals	0.2 % Proof Stress	AWS D 1.5/D1.5M: 2020
51.		0.5 % Proof Stress	AWS D 1.5/D1.5M: 2020
52.		1.0 % Proof Stress	AWS D 1.5/D1.5M: 2020
53.		Yield Stress	AWS D 1.5/D1.5M: 2020
54.		Elongation	AWS D 1.5/D1.5M: 2020
55.		Reduction of Area	AWS D 1.5/D1.5M: 2020
56.		Metallic Materials	Tensile Stress
57.	Welded Ferrous and Nonferrous Metals	Tensile Stress	ISO 5178: 2019
58.		0.2 % Proof Stress	ISO 5178: 2019
59.		0.5 % Proof Stress	ISO 5178: 2019
60.		1.0 % Proof Stress	ISO 5178: 2019
61.		Yield Stress	ISO 5178: 2019
62.	Welded Ferrous and Nonferrous Metals	Elongation	ISO 5178: 2019
63.		Reduction of Area	ISO 5178: 2019
64.	TMT Bar / Reinforcement Bar	Tensile Stress	BS EN ISO 15630-1: 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
65.		0.2 % Proof Stress	BS EN ISO 15630-1: 2019
66.		0.5 % Proof Stress	BS EN ISO 15630-1: 2019
67.		1.0 % Proof Stress	BS EN ISO 15630-1: 2019
68.		Yield Stress	BS EN ISO 15630-1: 2019
69.		Elongation	BS EN ISO 15630-1: 2019
70.	Welded Duplex Stainless Steel Pipeline	Tensile Stress	BS 4515-2: 1999
71.	TMT Bar / Reinforcement Bar	Mass per meter	IS 1786: 2008 (Reaffirmed 2018)
72.		Mass per meter	BS EN ISO 15630-1: 2019
73.		Mass per meter	ASTM A 615/615M - 24
74.	Ferrous Metals	Bend Test	ASTM A370 – 24
75.	Ferrous Metals, Nonferrous Metals	Bend Test	ASTM E290 – 22
76.		Bend Test	IS 1599: 2023
77.	Metallic Materials	Bend Test	ISO 7438: 2020
78.		Bend Test	BS EN ISO 8491: 2004
79.	TMT Bar / Reinforcement Bar	Bend Test	BS EN ISO 15630-1: 2019
80.	Welded Ferrous and	Bend Test	BS EN ISO 15630-1: 2019
81.	Nonferrous Metals	Bend Test	ASME BPVC SECTION IX - 2025

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
82.		Bend Test	ASTM E190 – 21
83.	Metallic Materials	Bend Test	BS EN ISO 5173: 2023
84.	Welding Pipeline	Bend Test	API STD 1104: 2021
85.	Welded Ferrous and	Bend Test	AWS D 1.1/D1.1M: 2025
86.	Nonferrous Metals	Bend Test	AWS D 1.5/D1.5M: 2020
87.	TMT Bar / Reinforcement Bar	Rebend Test	IS 1786: 2008 (Reaffirmed 2018)
88.		Rebend Test	BS EN ISO 15630-1: 2019
89.	Welding Pipeline	Nick Break Test	API STD 1104: 2021
90.	Ferrous Metals	Flattening Test	ASTM A370 – 24
91.	Nonferrous tubes and pipes products	Flattening Test	ASTM B968/B968M - 16(2022)
92.	Metallic Materials	Flattening Test	IS 2328: 2018 (Reaffirmed 2023)
93.		Flattening Test	ISO 8492: 2013
94.	Ferrous Metals	Flaring Test	ASTM A370 – 24
95.	Ferrous Metals, Nonferrous Metals	Drift Expansion Test	BS EN ISO 8493: 2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
96.	Ferrous Metals, Nonferrous Metals & Welded Ferrous and Nonferrous Metal	Drift Expansion Test	IS 2335: 2005 (Reaffirmed 2022)
97.	Ferrous Metals	Proof Load Test	ASTM F606/F606M - 24
98.	Ferrous Metals	Proof Load Test	ISO 3506-2:2020
99.		Proof Load Test	ISO 898-2:2022
100.		Fracture Test	ISO 9017:2017
101.		Rockwell Hardness "B" Scale	ASTM A370 – 24
102.		Rockwell Hardness "C" Scale	ASTM A370 – 24
103.		Rockwell Hardness "B" Scale	ASTM E18 – 24
104.		Rockwell Hardness "C" Scale	ASTM E18 – 24
105.	Metallic Materials	Rockwell Hardness "B" Scale	IS 1586 (Part 1): 2018 (Reaffirmed 2023)
106.		Rockwell Hardness "C" Scale	IS 1586 (Part 1): 2018 (Reaffirmed 2023)
107.		Rockwell Hardness "B" Scale	ISO 6508-1: 2023
108.		Rockwell Hardness "C" Scale	ISO 6508-1: 2023
109.		Vickers Hardness HV 5 Scale	ASTM E92 – 23

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
110.	Metallic Materials	Vickers Hardness HV 5 Scale	ISO 6507-1:2023
111.		Vickers Hardness HV 5 Scale	IS 1501 (Part 1): 2020
112.		Vickers Hardness HV 10 Scale	ASTM E92 - 23
113.		Vickers Hardness HV 10 Scale	ISO 6507-1:2023
114.		Vickers Hardness HV 10 Scale	IS 1501 (Part 1): 2020
115.		Vickers Hardness HV 20 Scale	ASTM E92 - 23
116.		Vickers Hardness HV 20 Scale	ISO 6507-1:2023
117.		Vickers Hardness HV 20 Scale	IS 1501 (Part 1): 2020
118.		Vickers Hardness HV 30 Scale	ASTM E92 - 23
119.		Vickers Hardness HV 30 Scale	ISO 6507-1:2023
120.		Vickers Hardness HV 30 Scale	IS 1501 (Part 1): 2020
121.		Vickers Hardness HV 50 Scale	ASTM E92 - 23
122.		Vickers Hardness HV 50 Scale	ISO 6507-1:2023
123.		Metallic Materials	Vickers Hardness HV 50 Scale
124.	Ferrous Metals	Charpy Impact Test (+35°C to -196°C)	ASTM A370 - 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
125.	Metallic Materials	Charpy Impact Test (+35°C to -196°C)	ASTM E23 - 25
126.	Ferrous Metals, Nonferrous Metals & Welded Ferrous and Nonferrous Metal	Charpy Impact Test (+35°C to -196°C)	JIS Z 2242: 2023
127.	Austenitic, Ferritic & Duplex Stainless Steels	Charpy Impact Test (+35°C to -196°C)	ASTM A923 - 23, Method B
128.	Ferrous Metals, Nonferrous Metals & Welded Ferrous and Nonferrous Metals	Charpy Impact Test (+35°C to -196°C)	ISO 148-1: 2016
129.	Ferrous Metals	Mass of Zinc	ASTM A90/A90M - 21
130.		Mass of Zinc	ISO 1460:2020
131.		Mass of Zinc	IS 6745 - 1972 (Reaffirmed 2021)
132.		Uniformity of Zinc Coating	IS 2633 - 1986 (Reaffirmed 2021)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
1.	Ferrous Metals, Nonferrous Metals	Microstructure Examination	ASM Handbook of Vol. 9
2.	Ferrous Metals	Microstructure Examination	ISO 17781: 2017
3.		Microstructure Examination	ASTM A247 - 24
4.	Ferrous Stainless Steel and Duplex Material	Microstructure Examination	ASTM A923 - 23, Method A
5.	Welded Metallic Materials	Microstructure Examination	EN ISO 17639: 2022
6.	Ferrous Metals, Nonferrous Metals	Macrostructure Examination	ASTM E340 - 23
7.	Welded Metallic Materials	Macrostructure Examination	EN ISO 17639: 2022
8.	Ferrous Metals	Macrostructure Examination	ASTM E381 - 22
9.	Welded Ferrous and Nonferrous Metals	Macrostructure Examination	AWS D 1.1/D1.1M: 2025
10.	Welded TMT Bar / Reinforcement Bar	Macrostructure Examination	AWS D 1.4/D1.4M: 2018
11.	Welded Ferrous and Nonferrous Metals	Macrostructure Examination	AWS D 1.5/D1.5M: 2020
12.	Welding Pipeline	Macrostructure Examination	API STD 1104: 2021
13.	Ferrous Metals, Nonferrous Metals	Grain Size Measurement (Comparison Method)	ASTM E112 - 24



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
14.	Ferrous Metals	Grain Size Measurement (Comparison Method)	ISO 643: 2024
15.		Volume Fraction	ASTM E1245 - 03 (Reapproved 2023)
16.		Volume Fraction	ASTM E562 - 19
17.		Nodularity, Nodule Count, Nodules Type & Size, Flakes Type & Size	ASTM E2567 - 16a (Reapproved 2023)
18.		Nodularity, Nodule Count, Nodules Type & Size, Flakes Type & Size	ASTM A247 - 24
19.		Nodularity, Nodule Count, Nodules Type & Size, Flakes Type & Size	EN ISO 945-1: 2019
20.	Hardened Metallic Material	Case Depth (By Microscopic)	IS 6416: 2022
21.		Case Depth (By Microscopic)	ISO 18203: 2016
22.	Ferrous Metals	Decarburization Depth (By Microscopic)	ASTM E1077 - 14 (Reapproved 2021)
23.		Decarburization Depth (By Microscopic)	ISO 3887: 2023
24.		Decarburization Depth (By Microscopic)	IS 6396: 2023
25.		Coating Thickness (By Microscopic)	ASTM B487 - 24
26.		Coating Thickness (By Microscopic)	ISO 1463: 2021

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	Metallography Test		
27.		Inclusion Rating	ISO 4967: 2013
28.		Inclusion Rating	ASTM E45 - 25
29.		Inclusion Rating	IS 4163: 2021
30.		Inclusion Rating	DIN 50602 - 85
31.	Austenitic Stainless Steels	IGC Practice A	ASTM A262 - 15 (Reapproved 2021)
32.		IGC Practice B	ASTM A262 - 15 (Reapproved 2021)
33.		IGC Practice C	ASTM A262 - 15 (Reapproved 2021)
34.	Austenitic Stainless Steels	IGC Practice E	ASTM A262 - 15 (Reapproved 2021)
35.		IGC Practice F	ASTM A262 - 15 (Reapproved 2021)
36.	Ferritic Stainless Steels	IGC Practice W	ASTM A763 - 15 (Reapproved 2021)
37.		IGC Practice X	ASTM A763 - 15 (Reapproved 2021)
38.		IGC Practice Y	ASTM A763 - 15 (Reapproved 2021)
39.		IGC Practice Z	ASTM A763 - 15 (Reapproved 2021)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
40.	Wrought, Nickel-Rich, Chromium Bearing Alloys	Susceptibility to Intergranular Corrosion Method A	ASTM G28-24
41.	Austenitic, Ferritic & Duplex Stainless Steels	Resistance to Intergranular Corrosion of Stainless Steels	ISO 3651-1:1998
42.	Austenitic, Ferritic & Duplex Stainless Steels	Resistance to Intergranular Corrosion of Stainless Steels	ISO 3651-2:1998
43.	Austenitic, Ferritic & Duplex Stainless Steels	Pitting Corrosion Test Method A	ASTM G48-11 (Reapproved 2020)
44.	Austenitic, Ferritic & Duplex Stainless Steels	Pitting Corrosion Test Method B	ASTM G48-11 (Reapproved 2020)
45.	Austenitic, Ferritic & Duplex Stainless Steels	Corrosion Test of Duplex Stainless Steels - Method C of ASTM A 923	ASTM A923 - 23, Method C

