

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

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/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
1.	Secondary cells and batteries containing alkaline or other non-acid electrolytes safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications- Lithium Systems	Parameter Measurement Tolerances	(Cl.4) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
2.		General safety considerations	(Cl.5) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
3.		Type test and sample size	(Cl.6 & annex D) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
4.		Charging procedure for test purpose	(Cl.7.1) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
5.		Continuous charging at constant voltage (Cells)	(Cl.7.2.1) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
6.		Case stress at high ambient temperature(battery)	(Cl.7.2.2) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
7.		External short circuit(cell)	(Cl.7.3.1) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
8.		External short circuit (Battery)	(Cl.7.3.2) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
9.		Free fall	(Cl.7.3.3) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
10.		Thermal Abuse (Cells)	(Cl.7.3.4) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
11.		Crush (cells)	(Cl.7.3.5) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
12.		Over charging of battery	(Cl.7.3.6) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
13.	Secondary cells and batteries containing alkaline or other non-acid electrolytes safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications-Lithium Systems	Forced discharge (cells)	(Cl.7.3.7) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
14.		Vibration	(Cl.7.3.8.1) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
15.		Mechanical shock	(Cl.7.3.8.2) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
16.		Information for safety	(Cl.8) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
17.		Marking	(Cl.9) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
18.		Packaging and transport	(Cl.10) IS 16046 (part 2):2018 + A1/IEC 62133-2:2017
19.	Secondary cells and batteries containing alkaline or other non-acid electrolytes safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications-Nickel Systems	Parameter Measurement Tolerances	(Cl.4) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
20.		General safety considerations	(Cl.5) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
21.		Type test and sample size	(Cl.6) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
22.		Charging procedure for test purpose	(Cl.7.1) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
23.		Continuous low-rate charging (Cells)	(Cl.7.2.1) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
24.		Vibration	(Cl.7.2.2) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
25.	Secondary cells and batteries containing alkaline or other non-acid electrolytes safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications- Nickel Systems	Case stress at high ambient temperature(batteries)	(Cl.7.2.3) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
26.		Temperature cycling	(Cl.7.2.4) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
27.		Incorrect Installation (Cells)	(Cl.7.3.1) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
28.		External short circuit	(Cl.7.3.2) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
29.		Free fall	(Cl.7.3.3) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
30.		Mechanical Shock (crash hazard)	(Cl.7.3.4) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
31.		Thermal abuse (Cells)	(Cl.7.3.5) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
32.		Crushing of cells	(Cl.7.3.6) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
33.		Low pressure cells	(Cl.7.3.7) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
34.		Over charge	(Cl.7.3.8) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
35.		Forced discharge cells	(Cl.7.3.9) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
36.		Information for safety	(Cl.8) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



3 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
37.		Marking	(Cl.9) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017
38.		Packaging	(Cl.10) IS 16046 (part 1):2018 + A1/IEC 62133-1:2017



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Power System and Stabilizers		
1.	Uninterruptible power systems (UPS)	General conditions for Tests	(Cl.4,4.1,4.2,4.3,4.4) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
2.		Components (Verification Only)	(Cl.4.5) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
3.		Power Interface	(Cl. 4.6) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
4.		Markings and Instructions	(Cl.No.4.7) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
5.		Protection against shock and energy hazards	(Cl.5.1) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
6.		Requirement for auxiliary circuits	(Cl.5.2) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
7.		Protective earthing and bonding	(Cl.No.5.3) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
8.		AC and D.C power isolation	(Cl.5.4) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



5 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Power System and Stabilizers		
9.	Uninterruptible power systems (UPS)	Over current and earth fault protection	(CI.5.5) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
10.		Protection of personnel-safety interlocks (Excluding CI.2.8.5/RD Moving parts CI no.: 2.8.7/RD Switches and relay)	(CI.5.6) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
11.		Clearances, Creepage distances and distances through insulation (Excluding CI no 2.10.5.4/RD Semiconductor devices)	(CI.5.7) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
12.		Wiring, connections and supply - General	(CI.6.1) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
13.		Connection to power	(CI.6.2) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
14.		Wiring terminals for external power conductors	(CI.6.3) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
15.		Enclosure	(CI.7.1) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



6 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Power System and Stabilizers		
16.	Uninterruptible power systems (UPS)	Stability	(Cl.No.7.2) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
17.		Mechanical Strength (Excluding 4.2.8/RD Cathode ray tubes, Cl no.:4.2.9/RD High Pressure Lamps)	(Cl.7.3) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
18.		Construction details	(Cl.7.4) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
19.		Resistance to fire	(Cl.7.5) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
20.		Battery Location	(Cl.7.6) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
21.		Temperature Rise	(Cl.No.7.7) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
22.		General Provision for Earth Leakage	(Cl.No.8.1) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
23.		Electric Strength	(Cl.No.8.2) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



7 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Power System and Stabilizers		
24.	Uninterruptible power systems (UPS)	Abnormal operating and fault conditions	(CI.8.3) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019
25.		Connection to telecommunication network	(CI.9.) IS 16242(Part 1):2014 +A1 /IEC 62040-1:2008 Reaffirmed Year: 2019



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
1.	Safety of Household and Similar Electrical Appliances (Clocks)	General requirement	(Cl.4) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
2.		General Condition for the Tests	(Cl.5) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
3.		Classification	(Cl.6) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
4.		Marking and Instructions	(Cl.No.7) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
5.		Protection against access to live parts	(Cl.No.8) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
6.		Power Input and Current	(Cl.No.10) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
7.		Heating	(CL.No.11) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
8.		Leakage current and electric strength at operating temperature	(Cl.No.13) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
9.		Transient Over Voltage	(Cl.No.14) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
10.		Moisture resistance	(Cl.No.15) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
11.	Safety of Household and Similar Electrical Appliances (Clocks)	Leakage current and electric strength	(Cl. No. 16) IS 302(Part 2/Sec26): 2014 Reaffirmed Year: 2019
12.		Overload Protection Of Transformers And Associated Circuits	(Cl.17) IS 302(Part 2/Sec26): 2014 Reaffirmed Year: 2019
13.		Abnormal Operation (Except EMI/EMC)	(Cl.19) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
14.		Stability and mechanical hazards	(Cl.No.20) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
15.		Mechanical Strength	(Cl.No.21) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
16.		Construction	(Cl.22) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
17.		Internal Wiring	(Cl.23) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
18.		Verification of Components	(Cl.24) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
19.		Supply Connections and External Flexible Cord	(Cl.25) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
20.		Terminals for External Conductors	(Cl.26) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



10 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
21.	Safety of Household and Similar Electrical Appliances (Clocks)	Provision for earthing	(Cl.No.27) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
22.		Screws and Connections	(Cl.28) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
23.		Clearances Creepage distances and solid insulation	(Cl.No.29) IS 302(Part 2/Sec26): 2014 Reaffirmed Year: 2019
24.		Resistance to heat & fire	(Cl.No.30) IS 302(Part 2/Sec 26): 2014 Reaffirmed Year: 2019
25.		Resistance To Rusting	(Cl.31) IS 302 (Part 2/Sec 26): 2014 Reaffirmed Year: 2019
26.	Safety of Household and Similar Electrical Appliances (General requirements)	General requirement	(Cl.4) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
27.		General Condition for the Tests	(Cl.5) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
28.		Classification	(Cl.6) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
29.		Marking and Instructions	(Cl.No.7) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
30.		Protection against access to live parts	(Cl.No.8) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
31.		Power Input and Current	(Cl.No.10) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



11 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
32.	Safety of Household and Similar Electrical Appliances (General requirements)	Heating	(CL.No.11) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
33.		Leakage current and electric strength at operating temperature	(Cl.No.13) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
34.		Leakage current and electric strength at operating temperature	(Cl.No.13) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
35.		Transient Over Voltage	(Cl.No.14) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
36.		Moisture resistance	(Cl.No.15) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
37.		Leakage current and electric strength	(Cl. No. 16) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
38.		Leakage current and electric strength	(Cl. No.16) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
39.		Overload Protection Of Transformers And Associated Circuits	(Cl.17) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
40.		Abnormal Operation (Except EMI/EMC)	(Cl.19) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
41.		Stability and mechanical hazards	(Cl.No.20) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



12 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
42.	Safety of Household and Similar Electrical Appliances (General requirements)	Mechanical Strength	(Cl.No.21) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
43.		Construction	(Cl.22) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
44.		Internal Wiring	(Cl.23) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
45.		Verification of Components	(Cl.24) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
46.		Supply connections and external flexible cord	(Cl.25) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
47.		Terminals for external conductors	(Cl.26) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
48.		Provision for earthing	(Cl.No.27) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
49.		Screws and connections	(Cl.28) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
50.		Clearances creepage distances and solid insulation	(Cl.No.29) IS 302(Part 1): 2008 +A4 Reaffirmed Year: 2016
51.		Resistance to heat & fire	(Cl.No.30) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016
52.		Resistance To Rusting	(Cl.31) IS 302(Part 1):2008 +A4 Reaffirmed Year: 2016

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



13 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
53.	Safety of Household and Similar Electrical Appliances (General requirements)	General requirement	(Cl.4) IS 302(Part 1):2024/ IEC 60335-1:2020
54.		General Condition for the Tests	(Cl.5) IS 302(Part 1):2024/IEC 60335-1:2020
55.		Classification	(Cl.6) IS 302(Part 1):2024/IEC 60335-1:2020
56.		Marking and Instructions	(Cl.No.7) IS 302(Part 1):2024/IEC 60335-1:2020
57.		Protection against access to live parts	(Cl.No.8) IS 302(Part 1):2024/IEC 60335-1:2020
58.		Power input and Current	(Cl.No.10) IS 302(Part 1):2024/IEC 60335-1:2020
59.		Heating	(CL.No.11) IS 302(Part 1): 2024/IEC 60335-1:2020
60.		Charging of metal ion batteries	(Cl. No. 12) IS 302(Part 1):2024/IEC 60335-1:2020
61.		Leakage current and electric strength at operating temperature	(Cl.No.13) IS 302(Part 1):2024/IEC 60335-1:2020
62.		Transient Over Voltage	(Cl.No.14) IS 302(Part 1):2024/IEC 60335-1:2020
63.		Moisture resistance	(Cl.No.15) IS 302(Part 1):2024/ IEC60335-1:2020

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



14 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
64.	Safety of Household and Similar Electrical Appliances (General requirements)	Leakage current and electric strength	(CI.No.16) IS 302(Part 1):2024/IEC 60335-1:2020
65.		Overload Protection Of Transformers and associated Circuits	(CI.17) IS 302(Part 1):2024/IEC 60335-1:2020
66.		Abnormal Operation	(CI.19) IS 302(Part 1): 2024/IEC 60335-1:2020
67.		Stability and mechanical hazards	(CI.No.20) IS 302(Part 1):2024/IEC 60335-1:2020
68.		Mechanical strength	(CI.No.21) IS 302(Part 1):2024/IEC 60335-1:2020
69.		Construction	(CI.22) IS 302(Part 1):2024/IEC 60335-1:2020
70.		Internal wiring	(CI.23) IS 302(Part 1):2024/IEC 60335-1:2020
71.		Verification of Components	(CI.24) IS 302(Part 1):2024/IEC 60335-1:2020
72.		Supply connections and external flexible cord	(CI.25) IS 302(Part 1):2024/IEC 60335-1:2020
73.		Terminals for external conductors	(CI.26) IS 302(Part 1):2024/IEC 60335-1:2020
74.		Provision for earthing	(CI.No.27) IS 302(Part 1):2024/IEC 60335-1:2020

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



15 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
75.	Safety of Household and Similar Electrical Appliances (General requirements)	Screws and Connections	(Cl. No.28) IS 302(Part 1): 2024/IEC 60335-1:2020
76.		Clearances creepage distances and solid insulation	(Cl. No. 29) IS 302(Part 1):2024/ IEC 60335-1:2020
77.		Resistance to heat & fire	(Cl.No.30) IS 302(Part 1):2024/IEC 60335-1:2020
78.		Resistance to Rusting	(Cl. No.31) IS 302(Part 1):2024/ IEC60335-1:2020



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
1.	Fixed General Purpose (Luminaries)	General test requirements	(Cl.4) IS10322 (Part5/Sec1):2012 Reaffirmed Year: 2017
2.		Classification of luminaires	(Cl.5) IS 10322 (Part5/Sec1): 2012 Reaffirmed Year: 2017
3.		Marking	(Cl.6) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
4.		Construction	(Cl.7) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
5.		Creepage distances and clearances	(Cl.8) IS 10322(Part5/Sec1):2012 Reaffirmed Year: 2017
6.		Provision for Earthing	(Cl.9) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
7.		Terminals	(Cl.10) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
8.		External and Internal Wiring	(Cl.11) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
9.		Protection Against Electric Shock	(Cl.12) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
10.		Endurance test and thermal test	(Cl.13) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
11.	Fixed General Purpose (Luminaries)	Resistance to Dust and Moisture	(Cl.14) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
12.		Insulation resistance and electric strength Test	(Cl.15) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
13.		Resistance to heat, fire & tracking	(Cl.16) IS 10322(Part5/Sec1): 2012 Reaffirmed Year: 2017
14.	DC or AC supplied electronic control gear for LED Modules	General requirements	(Cl.4) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
15.		General Notes on tests	(Cl.5) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
16.		Classification	(Cl.6) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
17.		Marking	(Cl.7) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
18.		Protection against accidental contact with live parts	(Cl.8) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
19.		Terminals	(Cl.9) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
20.		Provision for Protective earthing	(Cl.10) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



18 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
21.	DC or AC supplied electronic control gear for LED Modules	Moisture Resistance and Insulation	(Cl.11) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
22.		Electric strength	(Cl.12) IS 15885(Part 2/Sec13): 2012 Reaffirmed Year: 2017
23.		Fault conditions	(Cl.14) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
24.		Transformer Heating	(Cl.15) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
25.		Construction	(Cl.16) IS 15885(Part 2/Sec13): 2012 Reaffirmed Year: 2017
26.		Creepage Distances and Clearances	(Cl.17) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
27.		Screw, current carrying parts and constructions	(Cl.18) IS 15885(Part 2/Sec13): 2012+A1 Reaffirmed Year: 2017
28.		Resistance to Heat, Fire and Tracking	(Cl.19) IS 15885(Part 2/Sec13): 2012 Reaffirmed Year: 2017
29.		Resistance to Corrosion	(Cl.20) IS 15885(Part 2/Sec13): 2012 Reaffirmed Year: 2017
30.	Self-ballasted LED lamp	General Requirement and general test requirements	(Cl.4) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



19 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
31.	Self-ballasted LED lamp	Marking	(CI.No.5) IS 16102 (Part 1):2012+A3 Reaffirmed Year: 2017
32.		Interchangeability	(CI.No.6) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017
33.		Protection against accidental contact with live parts	(CI.No.7) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017
34.		Insulation resistance and electric strength after humidity treatment	(CI.No.8) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017
35.		Mechanical strength	(CI.No.9) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017
36.		Cap temperature rise	(CI.No.10) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017
37.		Resistance to heat	(CI.No.11) IS 16102 (Part 1):2012+A3 Reaffirmed Year: 2017
38.		Resistance to flame and ignition	(CI.No.12) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017
39.		Fault condition	(CI.No.13) IS 16102 (Part 1): 2012+A3 Reaffirmed Year: 2017
40.		Creepage distances and clearances	(CI.No.14) IS 16102 (Part 1):2012+A3 Reaffirmed Year: 2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



20 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
1.	Electronic items/ Electrical Items/ Automotive items/ Equipments/ Microcircuits/Miscellaneous	Cold test	IS/IEC 60068 (Part 2/Sec1):2007/IEC 60068-2-1: 2007
2.		Composite Temperature & Humidity Test	IS/IEC 60068 (Part 2/Sec 38):2021/IEC 60068-2-38:2021
3.		Damp Heat (Cyclic) Test	IS 9000 (Part 5/Sec 1 & 2): 1981 Reaffirmed Year: 2022
4.		Damp Heat (Steady State) Test	IS 9000 (Part 4): 2020 / IEC 60068-2-78: 2012 (Reaffirmed Year: 2023)
5.		Dry Heat test	IS 9000 (Part-3/Sec 1 to 5): 1977 Reaffirmed Year: 2019
6.		Low Air Pressure Test/ Altitude Test	IS 9000(Part 13):1981 Reaffirmed Year: 2019
7.		Mechanical Shock Test	IS 9000 (Part 7/Sec 1): 2018/IEC 60068-2-27:2008 Reaffirmed Year: 2021
8.		Change of Temperature	IS/IEC 60068 (Part 2/Sec 14) :2023/IEC60068-2-23
9.		Vibration Test	IS/IEC 60068 (Part 2/Sec6): 2007/IEC 60068-2-6:2007
10.		Salt Mist Test	IS 9000 (Part-11):1983 Reaffirmed Year: 2019
11.		Salt Spray Test	IS 9844: 1981 Reaffirmed Year: 2021
12.		Fine Mist Test	IS 9000 (Part-22):1983 Reaffirmed Year: 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



21 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
13.	Electronic items/ Electrical Items/ Automotive items/ Equipments/ Microcircuits/Miscellaneous	Degrees of Protection Provided by Enclosures (IP Code) (Degrees of protection Against access to hazardous parts indicated by first numeral) First Characteristic Numeral 0, First Characteristic Numeral 1, First Characteristic Numeral 2, First Characteristic Numeral 3, First Characteristic Numeral 4, First Characteristic Numeral 5, First Characteristic Numeral 6	IS/IEC 60529: 2001 +A1/IEC 60529 :2001 Reaffirmed Year: 2019
14.	Electronic items/ Electrical Items/ Automotive items/ Equipments/ Microcircuits/Miscellaneous	Degrees of Protection Provided by Enclosures (IP Code) (Degrees of protection against solid foreign objects indicated by first numeral) First Characteristic Numeral 0, First Characteristic Numeral 1, First Characteristic Numeral 2, First Characteristic Numeral 3, First Characteristic Numeral 4, First Characteristic Numeral 5, First Characteristic Numeral 6	IS/IEC 60529: 2001 +A1/IEC 60529 :2001 Reaffirmed Year: 2019



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
15.	Electronic items/ Electrical Items/ Automotive items/ Equipment/ Microcircuits/Miscellaneous	Degree of Protection Provided by Enclosures (IP Code) (Degrees of protection Against ingress of water indicated by Second numeral) Second characteristic Numeral 0 Second characteristic Numeral 1 Second characteristic Numeral 2 Second characteristic Numeral 3 Second characteristic Numeral 4 Second characteristic Numeral 5 Second characteristic Numeral 6 Second characteristic Numeral 7 Second characteristic Numeral 8	IS/IEC 60529: 2001 +A1/IEC 60529 :2001 Reaffirmed Year: 2019
16.	Electronic items/ Electrical Items/ Automotive items/ Equipment/ Microcircuits/Miscellaneous	Degrees of Protection Provided by Enclosures (IP Code) (Degrees of protection Against access to hazardous parts indicated by the additional letter) Additional letter A Additional letter B Additional letter C Additional letter D	IS/IEC 60529: 2001 +A1/IEC 60529 :2001 Reaffirmed Year: 2019



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
1.	Indian Languages Support for Mobile Phone Handset– Specific Requirement	Inputting of text	(Cl.4.1) IS 16333(Part 3):2022
2.		Message readability	(Cl.4.2) IS 16333(Part 3):2022
3.		Tests	(Cl.5.1,5.2, Annex A, Annex B, Annex C) IS 16333(Part 3):2022
4.		Marking	(Cl.6) IS 16333(Part 3):2022
5.	Information Technology Equipment	General Requirements	(Cl.1.3) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
6.		General Conditions for Tests	(Cl.1.4) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
7.		Verification of components (Only visual inspection)	(Cl.1.5) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
8.		Power Interface	(Cl. No. 1.6) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
9.		Markings and Instructions	(Cl.No.1.7) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
10.		Protection in operator access areas & Access to energized parts	(Cl.2.1.1 & Cl.2.1.1.1) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



24 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
11.	Information Technology Equipment	Battery Compartments	(Cl.2. 1.1.2) IS 13252(Part 1):2010 + A1 +A2/ IEC60950-1:2005 Reaffirmed Year: 2022
12.		Access to ELV wiring & Access to hazardous voltage circuit wiring	(Cl.2.1.1.3 & Cl. 2.1.1.4) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
13.		Energy Hazards	(Cl. 2.1.1.5) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
14.		Manual Controls	(Cl. 2.1.1.6) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
15.		Discharge of capacitors in equipment	(Cl.2.1.1.7) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
16.		Energy hazards-D.C. mains supplies	(Cl. 2.1.1.8) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
17.		Audio amplifiers in Information Technology Equipment	(Cl.2.1.1.9) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
18.		Protection in service access areas & Protection in restricted access locations	(Cl. 2.1.2 & 2.1.3) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



25 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
19.	Information Technology Equipment	SELV Circuits	(Cl. 2.2,2.2.1, 2.2.2,2.2.3, 2.2.4) IS 13252(Part 1):2010 + A1 +A2/ IEC60950-1:2005 Reaffirmed Year: 2022
20.	Information Technology Equipment	TNV Circuits	(Cl.2.3,2.3.1, 2.3.2, 2.3.2.1,2.3.2.2, 2.3.2.3, 2.3.2.4,2.3.3, 2.3.4, 2.3.5) IS 13252(Part 1):2010 + A1 +A2/ IEC60950-1:2005 Reaffirmed Year: 2022
21.	Information Technology Equipment	Limited Current Circuit	(Cl. 2.4, 2.4.1, 2.4.2,2.4.3) IS 13252(Part 1):2010 + A1 +A2/ IEC60950-1:2005 Reaffirmed Year: 2022
22.	Information Technology Equipment	Limited Power Sources	(Cl.2.5) IS 13252(Part 1):2010 + A1 +A2/ IEC60950-1:2005 Reaffirmed Year: 2022
23.	Information Technology Equipment	Provisions for earthing and bonding	(Cl.No.2.6.1, 2.6.2, 2.6.3, 2.6.4,2.6.5) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
24.	Information Technology Equipment	Over current and earth fault protection in Primary circuits	(Cl.No.2.7) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



26 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
25.	Information Technology Equipment	Electrical Insulation	(Cl.No.2.9) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
26.		Clearances, Creepage distances and distances through Insulation	(Cl.2.10,2.10.1,2.10.1.1,2.10.1.2, 2.10.1.3,2.10.1.4,2.10.1.5,2.10.1.6,2.1 0.1.7) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
27.		Determination of working voltage	(Cl. 2.10.2, 2.10.2.1,2.10.2.2, 2.10.2.3) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
28.		Clearances	(Cl.2.10.3,2.10.3.1, 2.10.3.2, 2.10.3.3, 2.10.3.4, 2.10.3.5, 2.10.3.6, 2.10.3.7, 2.10.3.8,2.10.3.9) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
29.		Creepage distances	Cl.2.10.4, 2.10.4.1, 2.10.4.2, 2.10.4.3) IS 13252(Part 1):2010 + A1 +A2/ IEC60950-1:2005 Reaffirmed Year: 2022
30.		Solid Insulation	(Cl.2.10.5,2.10.5.1,2.10.5.2, 2.10.5.3, 2.10.5.5,2.10.5.6, 2.10.5.7, 2.10.5.8, 2.10.5.9, 2.10.5.10,2.10.5.14

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



27 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
			(Excluding Cl. 2.10.5.4, 2.10.5.11, 2.10.5.12, 2.10.5.13 & Annex U) IS 13252(Part 1):2010 + A1 +A2/ IEC60950-1:2005 Reaffirmed Year: 2022
31.	Information Technology Equipment	Construction of printed boards	(Cl. 2.10.6, 2.10.6.1, 2.6.2, 2.10.6.3, 2.10.6.4) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
32.		Component external terminations	(Cl. 2.10.7) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
33.		Tests on coated printed boards and coated components	(Cl. 2.10.8, 2.10.8.1, 2.10.8.2, 2.10.8.3, 2.10.8.4) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
34.		Thermal cycling	(Cl. 2.10.9) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
35.		Test for pollution degree 1 environment and for insulating compound	(Cl. 2.10.10) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
36.		Tests for semiconductor devices and for cemented joints	(Cl. 2.10.11) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



28 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
37.	Information Technology Equipment	Enclosed and Sealed Parts	(CI 2.10.12) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
38.		Wiring, connections and supply	(Cl. 3.1,3.1.1,3.1.2,3.1.3, 3.1.4, 3.1.5, 3.1.6,3.1.7,3.1.8, 3.1.9, 3.1.10) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
39.		Connection to a mains Supply	(Cl.3.2,3.2.1, 3.2.1.1, 3.2.1.2, 3.2.2,3.2.3,3.2.4,3.2.7 3.2.9) (Excluding CI 3.2.5) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
40.		Cord anchorages and strain relief	(Cl.3.2.6) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
41.		Cord guards	(Cl.3.2.8) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
42.		Wiring terminals for connection of external conductors	(Cl.3.3,3.3.1, 3.3.2,3. 3.3,3.3.4,3.3.5, 3.3.6,3.3.7,3.3.8) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



29 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
43.	Information Technology Equipment	Disconnection from the mains Supply	(Cl.3.4,3.4.1, 3.4.2, 3.4.3, 3.4.4, 3.4.5,3.4.6, 3.4.7,3.4.8,3.4. 9, 3.4.10, 3.4.11) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
44.		Interconnection of equipment	(Cl.3.5,3. 5.1,3.5.2,3.5.3,3.5.4) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
45.		Physical requirements & stability	(Cl.4,4.1) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
46.		Mechanical strength	(Cl.4.2,4.2.1,4.2.2,4.2.3,4.2.4,4.2.5 ,4.2.6,4.2.7,4.2.10) (Excluding Cl 4.2.8 & 4.2.9) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
47.		Design and construction	(Cl. 4.3,4.3.1,4.3.2,4.3.3,4.3.4, 4.3.5,4.3.6,4.3.7,4.3.8,4.3.9, 4.3.10,4.3.11,4.3.12,4.3.13.6 (Excluding Cl 4.3.13.1, 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.3.13.5) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



30 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
48.	Information Technology Equipment	Protection against hazardous moving parts	(Cl.4.4,4.4.1, 4.4.2,4.4.3,4.4.4) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
49.		Thermal requirements	(Cl.4.5,4.5.1,4.5.2,4.5.3,4.5.4) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
50.		Resistance to abnormal heat	(Cl.4.5.5) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
51.		Opening in enclosures	(Cl.4.6,4.6.1,4.6.2,4.6.3, 4.6.4, 4.6.4.1,4.6.4.2,4.6.4.3,4.6.5) (Excluding 4.6.2 & Annex A.3) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022
52.		Resistance to fire	(Cl.4.7,4.7.1,4.7.2,4.7.2.1,4.7.2.2, 4.7.3,4.7.3.1,4.7.3.2,4.7.3.3,4.7.3.4, 4.7.3.5,4.7.3.6) IS 13252(Part 1):2010 + A1 +A2/IEC60950-1:2005 Reaffirmed Year: 2022



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
53.	Information Technology Equipment	Electrical requirements and simulated abnormal conditions	(Cl.5, 5.1, 5.1.1, 5.1.2, 5.1.2.1, 5.1.2.2, 5.1.2.3, 5.1.3, 5.1.4, 5.1.5, 5.1.6, 5.1.7, 5.1.7.1, 5.1.7.2, 5.1.8, 5.1.8.1, 5.1.8.2) IS 13252(Part 1):2010 + A1 + A2/IEC60950-1:2005 Reaffirmed Year: 2022
54.		Electric strength	(Cl.5.2, 5.2.1, 5.2.2) IS 13252(Part 1):2010 + A1 + A2/IEC60950-1:2005 Reaffirmed Year: 2022
55.		Abnormal operating and fault conditions	(Cl.5.3, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.3.5, 5.3.6, 5.3.7, 5.3.8, 5.3.9, 5.3.9.1, 5.3.9.2) IS 13252(Part 1):2010 + A1 + A2/IEC60950-1:2005 Reaffirmed Year: 2022
56.		Connection to telecommunication networks	(Cl.6, 6.1, 6.1.1, 6.1.2, 6.1.2.1, 6.1.2.2, 6.2, 6.2.1, 6.2.2, 6.2.2.1, 6.2.2.2, 6.2.2.3, 6.3) IS 13252(Part 1):2010 + A1 + A2/IEC60950-1:2005 Reaffirmed Year: 2022
57.		Connection to cable distribution systems	(Cl.7, 7.1, 7.2, 7.3, 7.4, 7.4.1, 7.4.2, 7.4.3) IS 13252(Part 1):2010 + A1 + A2/IEC60950-1:2005 Reaffirmed Year: 2022



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
58.	Audio/Video, Information and communication technology equipment	General requirement, General, Application of requirements and acceptance of materials, Use of components, Equipment design and construction	(CI 4) IS/IEC 62368-1:2018
59.	Audio/Video, Information and communication technology equipment	Equipment Installation	(CI 4.1.4) IS/IEC 62368-1:2018
60.	Audio/Video, Information and communication technology equipment	Constructions and components not specifically covered, Orientation during transport and use, Choice of criteria Liquids and liquid filled components (LFC), Electrical measuring instruments, Temperature measurements, Steady State conditions, Hierarchy of safeguards, Examples mentioned in this document, Tests on parts or samples separate from the end-product, Marking and instructions	(CI 4.1.5, 4.1.6, 4.1.7, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15) IS/IEC 62368-1:2018



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
61.	Audio/Video, Information and communication technology equipment	Energy Source Classifications 4.2.1 Class 1 energy source 4.2.2 class 2 energy source 4.2.3 class 3 energy source 4.2.4 energy source classification by declaration	(CI 4.2) IS/IEC 62368-1:2018
62.	Audio/Video, Information and communication technology equipment	Protection against energy sources 4.3.1 General 4.3.2 Safeguards for protection of an ordinary person 4.3.2.1 Safeguards between a class 1 energy source and an ordinary person 4.3.2.2 Safeguards between a class 2 energy source and an ordinary person 4.3.2.3 Safeguards between a class 2 energy source and an ordinary person during ordinary person servicing conditions 4.3.2.4 Safeguards between a class 3 energy source and an ordinary person 4.3.3 Safeguards for protection of an instructed person 4.3.3.1 Safeguards	(CI 4.3) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



34 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		between a class 1 energy source and an instructed person 4.3.3.2 Safeguards between a class 2 energy source and an instructed person 4.3.3.3 Safeguards between a class 3 energy source and an instructed person 4.3.4 Safe guards for protection of a skilled person 4.3.4.1 Safeguards between a class 1 energy source and a skilled person 4.3.4.2 Safeguards between a class 2 energy source and a skilled person 4.3.4.3 Safeguards between a class 3 energy source and skilled person 4.3.5 Safeguards in a restricted access area	
63.	Audio/Video, Information and communication technology equipment	Safeguards 4.4.1 Equivalent materials or components 4.4.2 composition of a safeguard 4.4.3 Safeguard robustness 4.4.3.1 General 4.4.3.2 Steady	(CI 4.4) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



35 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		Force test 4.4.3.3 Drop tests 4.4.3.4 Impact tests 4.4.3.5 Internal accessible safeguard tests 4.4.3.6 Glass impact tests 4.4.3.7 Glass fixation test 4.4.3.8 Thermoplastic material tests 4.4.3.9 Air comprising a safeguard 4.4.3.10 Compliance criteria 4.4.4 Displacement of a safeguard by an insulating liquid 4.4.5 Safety interlocks	
64.	Audio/Video, Information and communication technology equipment	Explosion 4.5.1 General 4.5.2 Requirements	(CI. 4.5) IS/IEC 62368-1:2018
65.	Audio/Video, Information and communication technology equipment	Fixing of conductors 4.6.1 Requirements 4.6.2 Compliance criteria	(CI 4.6) IS/IEC 62368-1:2018
66.	Audio/Video, Information and communication technology equipment	Equipment for direct insertion into mains socket outlets 4.7.1 General 4.7.2 Requirements 4.7.3 Compliance criteria	(CI 4.7) IS/IEC 62368-1:2018
67.	Audio/Video, Information and communication technology equipment	Equipment containing coin/button cell batteries 4.8.1 General 4.8.2 Instructional safeguard 4.8.3 Construction	(CI 4.8) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



36 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
68.	Audio/Video, Information and communication technology equipment	4.8.4.1 Test sequence 4.8.4.2 Stress relief test	(CI 4.8.4) IS/IEC 62368-1:2018
69.	Audio/Video, Information and communication technology equipment	Battery replacement test	(CI 4.8.4.3) IS/IEC 62368-1:2018
70.	Audio/Video, Information and communication technology equipment	Drop test	(CI 4.8.4.4) IS/IEC 62368-1:2018
71.	Audio/Video, Information and communication technology equipment	Impact test	(CI 4.8.4.5) IS/IEC 62368-1:2018
72.	Audio/Video, Information and communication technology equipment	Crush test	(CI 4.8.4.6) IS/IEC 62368-1:2018
73.	Audio/Video, Information and communication technology equipment	Compliance criteria	(CI 4.8.5) IS/IEC 62368-1:2018
74.	Audio/Video, Information and communication technology equipment	Likelihood of fire or shock due to entry of conductive objects	(CI 4.9) IS/IEC 62368-1:2018
75.	Audio/Video, Information and communication technology equipment	Components requirements 4.10.1 Disconnect device 4.10.2 Switches and relays	(CI 4.10) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



37 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
76.	Audio/Video, Information and communication technology equipment	Electrical-caused injury 5.1 general 5.2 classification and limits of electrical energy sources 5.2.1 Electrically energy source classifications 5.2.1.1 ES1 5.2.1.2 ES2 5.2.1.3 ES3	(CI 5) IS/IEC 62368-1:2018
77.	Audio/Video, Information and communication technology equipment	Electrical energy source ES1 and ES2 limits 5.2.2.1 General 5.2.2.2 Steady state voltage and current limits 5.2.2.3 Capacitance limits 5.2.2.4 Single pulse limits 5.2.2.5 Limits for repetitive pulses 5.2.2.6 ringing signals 5.2.2.7 Audio signals	(CI 5.2.2) IS/IEC 62368-1:2018
78.	Audio/Video, Information and communication technology equipment	Protection against electrical energy sources 5.3.1 General 5.3.2 Accessibility to electrical energy sources and safeguards 5.3.2.1 Requirements 5.3.2.2 Contact requirements 5.3.2.3 Compliance criteria 5.3.2.4 Terminals for connecting stripper wire	(CI 5.3) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



38 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
79.	Audio/Video, Information and communication technology equipment	Insulation materials and requirements 5.4.1 General 5.4.1.1 Insulation 5.4.1.2 Properties of insulating material 5.4.1.3 Compliance criteria	(CI 5.4) IS/IEC 62368-1:2018
80.	Audio/Video, Information and communication technology equipment	Maximum operating temperatures for materials, components and systems 5.4.1.4.1 Requirements 5.4.1.4.2 Test Method 5.4.1.4.3 Compliance criteria 5.4.1.5 Pollution degrees 5.4.1.5.1 General 5.4.1.5.2 Test for pollution degree 1 environment and for an insulating compound 5.4.1.5.3 Thermal cycling test procedure 5.4.1.6 insulation in transformers with varying dimensions 5.4.1.7 Insulation in circuits generating starting pulses	(CI 5.4.1.4) IS/IEC 62368-1:2018
81.	Audio/Video,	Determination of working voltage 5.4.1.8.1 General	(CI 5.4.1.8) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



39 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
	Information and communication technology equipment	5.4.1.8.2 RMS working voltage 5.4.1.9 Insulating surfaces	
82.	Audio/Video, Information and communication technology equipment	Thermoplastic parts on which conductive metallic parts are directly mounted 5.4.1.10.1 Requirements 5.4.1.10.2 Vicat test	(CI 5.4.1.10) IS/IEC 62368-1:2018
83.	Audio/Video, Information and communication technology equipment	Ball pressure test	(CI 5.4.1.10.3) IS/IEC 62368-1:2018
84.	Audio/Video, Information and communication technology equipment	Clearances 5.4.2.1 General requirements 5.4.2.2 Procedure 1 for determining clearance 5.4.2.3 Procedure 2 for determining clearance 5.4.2.3.1 General 5.4.2.3.2 Determining transient voltages 5.4.2.3.2.1 General 5.4.2.3.2.2 Determining AC mains transient voltages 5.4.2.3.2.3 Determining DC mains transient voltages 5.4.2.3.2.4 Determining external circuit transient voltages 5.4.2.3.2.5 Determining transient voltage	(CI 5.4.2) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



40 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		levels by measurement 5.4.2.3.3 Determining required withstand voltage 5.4.2.3.4 Determining clearances using required with stand voltage 5.4.2.4 Determining the adequacy of a clearance using an electric strength test 5.4.2.5 multiplication factors for altitudes higher than 2000m above sea level 5.4.2.6 Compliance criteria	
85.	Audio/Video, Information and communication technology equipment	Creepage distance 5.4.3.1 General 5.4.3.2 Test method 5.4.3.3 material group and CTI 5.4.3.4 Compliance criteria	(CI 5.4.3) IS/IEC 62368-1:2018
86.	Audio/Video, Information and communication technology equipment	Solid insulation 5.4.4.1 General requirements 5.4.4.2 minimum distance through insulation 5.4.4.3 Insulating compound forming solid insulation 5.4.4.4 Solid insulation in semiconductor devices 5.4.4.5 insulating compound forming cemented	(CI 5.4.4) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



41 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		joints 5.4.4.6 Thin sheet material 5.4.4.6.1 General requirements 5.4.4.6.2 Separable thin sheet material 5.4.4.6.3 Non separable thin sheet material 5.4.4.6.4 Standard test procedure for non-separable thin sheet material 5.4.4.6.5 Mandrel test 5.4.4.7 Solid insulation in wound components 5.4.4.8 Compliance criteria 5.4.4.9 Solid insulation requirements at frequencies higher than 30 kHz	
87.	Audio/Video, Information and communication technology equipment	Antenna terminal insulation 5.4.5.1 General 5.4.5.2 Test method 5.4.5.3 Compliance criteria	(CI 5.4.5) IS/IEC 62368-1:2018
88.	Audio/Video, Information and communication technology equipment	Insulation of internal wire as a part of a supplementary safeguard	(CI 5.4.6) IS/IEC 62368-1:2018
89.	Audio/Video, Information and communication technology equipment	Test for semiconductor components and for cemented joints	(CI 5.4.7) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



42 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
90.	Audio/Video, Information and communication technology equipment	Humidity conditioning	(CI 5.4.8) IS/IEC 62368-1:2018
91.	Audio/Video, Information and communication technology equipment	Electric strength test 5.4.9.1 Test procedure for type testing of solid insulation 5.4.9.2 Test procedure for routine test	(CI 5.4.9) IS/IEC 62368-1:2018
92.	Audio/Video, Information and communication technology equipment	Safeguards against transient voltages from external circuits 5.4.10.1 Requirements 5.4.10.2 test methods 5.4.10.2.1 General 5.4.10.2.2 Impulse test	(CI 5.4.10) IS/IEC 62368-1:2018
93.	Audio/Video, Information and communication technology equipment	Steady state test	(CI 5.4.10.2.3) IS/IEC 62368-1:2018
94.	Audio/Video, Information and communication technology equipment	Compliance criteria	(CI 5.4.10.3) IS/IEC 62368-1:2018
95.	Audio/Video, Information and communication technology equipment	Separation between external circuits and earth 5.4.11.1 General 5.4.11.2 Requirements 5.4.11.3 Test method and compliance criteria	(CI. 5.4.11) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



43 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
96.	Audio/Video, Information and communication technology equipment	Insulating liquid 5.4.12.1 General requirements 5.4.12.2 Electric strength of an insulating liquid 5.4.12.4 Container for insulating liquid	(Cl. 5.4.12) IS/IEC 62368-1:2018
97.	Audio/Video, Information and communication technology equipment	Components as safeguards (Visual Inspection only) 5.5.2.2 Capacitor discharge after disconnection of a connector 5.5.8 Insulation between the mains and an external circuit consisting of a coaxial cable	(Cl. 5.5) IS/IEC 62368-1:2018
98.	Audio/Video, Information and communication technology equipment	Protective conductor 5.6.1 General 5.6.2 Requirements for protective conductors 5.6.2.1 General requirements 5.6.2.2 Colour of insulation 5.6.3 Requirements for protective earthing conductors 5.6.4 Requirements for protective bonding conductors 5.6.4.1 Requirements 5.6.4.2 Determination of the protective current rating	(Cl. 5.6) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



44 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		5.6.4.2.1 Mains supply as the source 5.6.4.2.2 Other than mains supply as the source 5.6.4.2.3 Internal circuit as the source 5.6.4.2.4 Current limiting and overcurrent protective devices 5.6.4.3 Compliance criteria	
99.	Audio/Video, Information and communication technology equipment	Terminals for protective conductors 5.6.5.1 Requirements 5.6.5.2 Corrosion	(Cl. 5.6.5) IS/IEC 62368-1:2018
100.	Audio/Video, Information and communication technology equipment	Resistance of the protective bonding system 5.6.6.1 Requirements 5.6.6.2 Test method 5.6.6.3 Compliance criteria 5.6.7 Reliable connection of a protective earthing conductor 5.6.8 Functional earthing	(Cl. 5.6.6) IS/IEC 62368-1:2018
101.	Audio/Video, Information and communication technology equipment	Prospective touch voltage, touch current and protective conductor current 5.7.1 General 5.7.2 Measuring devices and networks 5.7.2.1	(Cl. 5.7) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



45 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		Measurement of touch current 5.7.2.2 Measurement voltage 5.7.3 Equipment set-up , supply connections and earth connections 5.7.4 Unearthed accessible parts 5.7.5 Earthed accessible conductive parts 5.7.6 Requirements when touch current exceeds ES2 limits 5.7.7 Prospective touch voltage and touch current associated with external circuits 5.7.7.1 Touch current from coaxial cables 5.7.7.2 Prospective touch voltage and touch current associated with paired	
102.	Audio/Video, Information and communication technology equipment	Back feed safeguard in battery backed up supplies	(Cl. 5.8) IS/IEC 62368-1:2018
103.	Audio/Video, Information and communication technology equipment	Electrically – caused fire 6.1 General 6.2 Classification of power sources (PS) and	(Cl. 6) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



46 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		potential ignition sources (PIS) 6.2.1 General	
104.	Audio/Video, Information and communication technology equipment	Power source circuit classification 6.2.2.1 General 6.2.2.2 Power measurement for worst case fault 6.2.2.3 Power measurement for worst case power source fault 6.2.2.4 PS1 6.2.2.5 PS2 6.2.2.6 PS3	(Cl. 6.2.2) IS/IEC 62368-1:2018
105.	Audio/Video, Information and communication technology equipment	Classification of potential ignition sources 6.2.3.1 Arching PIS 6.2.3.2 Resistive PIS	(Cl. 6.2.3) IS/IEC 62368-1:2018
106.	Audio/Video, Information and communication technology equipment	Safeguards against fire under normal operating conditions and abnormal operating conditions 6.3.1 Requirements 6.3.2 Compliance criteria 6.3.2	(Cl. 6.3) IS/IEC 62368-1:2018
107.	Audio/Video, Information and communication technology equipment	Safeguards against fire under single fault conditions 6.4.1 General 6.4.2 Reduction of the likelihood of ignition under single fault conditions in PS1 circuits 6.4.3 Reduction of the	(Cl. 6.4) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



47 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		likelihood of ignition under single fault conditions in PS2 circuits and PS3 circuits 6.4.3.1 Requirements 6.4.3.2 Test method 6.4.3.3 Compliance criteria 6.4.4 Control of fire spread in PS1 circuits 6.4.5 Control of fire spread in PS2 circuits 6.4.5.1 General 6.4.5.2 Requirements 6.4.5.3 Compliance criteria 6.4.6 Control of fire spread in PS3 circuit 6.4.7 Separation of combustible materials from a PIS 6.4.7.1 General 6.4.7.2 Separation by distance 6.4.7.3 Separation by a fire barrier 6.4.7.4 Compliance criteria	
108.	Audio/Video, Information and communication technology equipment	Fire enclosure and fire barriers 6.4.8.1 General 6.4.8.2 Fire enclosure and fire barrier material properties 6.4.8.2.1 Requirement of fire barrier 6.4.8.2.2 Requirement of fire enclosure 6.4.8.2.3	(Cl. 6.4.8) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



48 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
		Compliance criteria 6.4.8.3 Constructional requirements for a fire enclosure and a fire barrier 6.4.8.3.1 Fire enclosure and fire barrier openings 6.4.8.3.2 Fire barrier dimensions 6.4.8.3.3 Top openings and top opening properties 6.4.8.3.4 Bottom opening and bottom opening properties 6.4.8.3.5 Side openings and side openings properties 6.4.8.3.6 Integrity of a fire enclosure 6.4.8.3.7 Compliance criteria 6.4.8.4 Separation of a PIS from a fire enclosure and a fire barrier 6.4.9 Flammability of an insulating liquid	
109.	Audio/Video, Information and communication technology equipment	Internal and external wiring 6.5.1 General requirements 6.5.2 Requirements for interconnection to building wiring 6.5.3 Internal wiring for socket outlets	(Cl. 6.5) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



49 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
110.	Audio/Video, Information and communication technology equipment	Safeguards against fire due to the connection of additional equipment	(Cl. 6.6) IS/IEC 62368-1:2018
111.	Audio/Video, Information and communication technology equipment	Injury caused by hazardous substances 7.1 General 7.2 Reduction of exposure to hazardous substances 7.3 Ozone exposure 7.4 Use of personal safeguards or personal protective equipment (PPE) 7.5 Use of instructional safeguards and instructions 7.6 Batteries and their Protection circuits	(Cl. 7) IS/IEC 62368-1:2018
112.	Audio/Video, Information and communication technology equipment	Mechanically – caused injury 8.1 General	(Cl. 8) IS/IEC 62368-1:2018
113.	Audio/Video, Information and communication technology equipment	Mechanical energy source classifications 8.2.1 General classification 8.2.2 MS1 8.2.3 MS2 8.2.4 MS3 8.3 Safeguards against mechanical energy sources	(Cl. 8.2) IS/IEC 62368-1:2018
114.	Audio/Video,	Safeguards against parts with sharp edges and corners 8.4.1	(Cl. 8.4) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



50 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
	Information and communication technology equipment	Requirements 8.4.2 Compliance criteria	
115.	Audio/Video, Information and communication technology equipment	Stability of equipment 8.6.1 Requirements 8.6.2 Static stability 8.6.2.1 Test setup 8.6.2.2 Static stability test 8.6.2.3 Downward force test 8.6.2.4 Compliance criteria 8.6.3 Relocation stability 8.6.3.1 Requirements 8.6.3.2 Test method and compliance criteria	(Cl. 8.6) IS/IEC 62368-1:2018
116.	Audio/Video, Information and communication technology equipment	Glass slide test	(Cl. 8.6.4) IS/IEC 62368-1:2018
117.	Audio/Video, Information and communication technology equipment	Horizontal force test and compliance criteria	(Cl. 8.6.5) IS/IEC 62368-1:2018
118.	Audio/Video, Information and communication technology equipment	Equipment mounted to a wall, ceiling or other structure 8.7.1 Requirements 8.7.2 test methods 8.7.3 Compliance criteria	(Cl. 8.7) IS/IEC 62368-1:2018
119.	Audio/Video,	Handle strength 8.8.1 General 8.8.2 Test method	(Cl. 8.8) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



51 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
	Information and communication technology equipment		
120.	Audio/Video, Information and communication technology equipment	Wheel or casters attachment requirements 8.9.1 General 8.9.2 Test method	(Cl. 8.9) IS/IEC 62368-1:2018
121.	Audio/Video, Information and communication technology equipment	Carts, stands, and similar carriers 8.10.1 General 8.10.2 Marking and instructions 8.10.3 Carts, stand or carrier loading test and compliance criteria 8.10.4 Carts, stand or carrier impact test 8.10.5 Mechanical stability 8.10.6 Thermoplastic temperature stability	(Cl. 8.10) IS/IEC 62368-1:2018
122.	Audio/Video, Information and communication technology equipment	Mounting means for slide-rail mounted equipment (SRME) 8.11.1 General 8.11.2 Requirements 8.11.3 Mechanical strength test 8.11.3.1 Downward force test 8.11.3.2 Lateral push force test 8.11.3.3 Integrity of slide rail end stops 8.11.4 Compliance criteria	(Cl.8.11) IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



52 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
123.	Audio/Video, Information and communication technology equipment	Telescoping or rod antennas	(Cl. 8.12) IS/IEC 62368-1:2018
124.		Thermal burn injury 9.1 General 9.2 Thermal energy source classification 9.2.1 TS1 9.2.2 TS2 9.2.3 TS3	(Cl. 9) IS/IEC 62368-1:2018
125.		Touch temperature limits 9.3.1 Requirements 9.3.2 Test method and compliance criteria	(Cl. 9.3) IS/IEC 62368-1:2018
126.		Safeguards against thermal energy sources	(Cl. 9.4) IS/IEC 62368-1:2018
127.		Requirements for safeguards 9.5.1 Equipment safeguards 9.5.2 Instructional safeguard	(Cl. 9.5) IS/IEC 62368-1:2018
128.		Requirements for wireless power transmitter 9.6.1 General 9.6.2 Specification of the foreign objects 9.6.3 test method and compliance criteria	(Cl. 9.6) IS/IEC 62368-1:2018
129.		Normal operating condition tests, abnormal operating conditions and single fault conditions	Annex B IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



53 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
130.	Audio/Video, Information and communication technology equipment	Test generators	Annex D IS/IEC 62368-1:2018
131.		Test conditions for equipment containing audio amplifiers	Annex E IS/IEC 62368-1:2018
132.		Equipment markings, instructions and instructional safeguards	Annex F IS/IEC 62368-1:2018
133.		Components	Annex G IS/IEC 62368-1:2018
134.		Overtoltage categories	Annex I IS/IEC 62368-1:2018
135.		Disconnect device	Annex L IS/IEC 62368-1:2018
136.		Equipment containing batteries and their protection circuits (Excluding Cl. M.7 & M.8)	Annex M IS/IEC 62368-1:2018
137.		Electrochemical potentials	Annex N IS/IEC 62368-1:2018
138.		Measurement of creepage distances and clearances	Annex O IS/IEC 62368-1:2018
139.		Safeguards against conductive objects	Annex P IS/IEC 62368-1:2018
140.		Circuits intended for interconnection with building wiring	Annex Q IS/IEC 62368-1:2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



54 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
141.	Audio/Video, Information and communication technology equipment	Limited short circuit test	Annex R IS/IEC 62368-1:2018
142.		Test for resistance to heat and fire	Annex S IS/IEC 62368-1:2018
143.		Mechanical strength tests	Annex T IS/IEC 62368-1:2018
144.		Determination of accessible parts	Annex V IS/IEC 62368-1:2018
145.		Alternative method for determining clearances for insulation in circuits connected to an ac main not exceeding 420V Peak (300V RMS)	Annex X IS/IEC 62368-1:2018
146.	Audio, Video and similar electronics Apparatus-safety requirements	General requirements	(Cl.3) IS 616: 2017/IEC 60065:2014 Reaffirmed Year: 2023
147.		General tests conditions	(Cl.4) IS 616: 2017/IEC 60065:2014
148.		Marking	(Cl. 5) Reaffirmed Year: 2023
149.		Heating Under Normal Operating Conditions	(Cl.7,7.1,7.2) IS 616: 2017/IEC 60065:2014
150.		Constructional requirements with regard to the protection against electric shock	(Cl.8) Reaffirmed Year: 2023 (Excluding Cl. 8.16 & 8.17)
151.		Electrical shock hazard under normal operating conditions	(Cl.9) IS 616: 2017/IEC 60065:2014
152.		Insulation requirements	(Cl.10) IS 616: 2017/IEC 60065:2014

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



55 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
153.		Fault conditions	(Cl.11) IS 616: 2017/IEC 60065:2014
154.		Mechanical strength	(Cl.12) IS 616: 2017/IEC 60065:2014
155.		Clearances and creepage Distances	(Cl.13) IS 616: 2017/IEC 60065:2014
156.		Verification of component Visual Inspection only	(Cl.14) IS 616: 2017/IEC 60065:2014
157.		Terminal	(Cl.15) S 616: 2017/IEC 60065:2014 (Excluding Cl.15.1.1, 15.1.2, 15.1.3)
158.	Audio, Video and similar electronics Apparatus-safety requirements	External flexible cords	(Cl.16) IS 616: 2017/IEC 60065:2014 (Excluding Cl.16.1)
159.		Electrical connections and mechanical fixings	(Cl.17) IS 616: 2017/IEC 60065:2014
160.		Stability and mechanical hazards	(Cl.19) IS 616: 2017/IEC 60065:2014
161.		Resistance to fire	(Cl.20) IS 616: 2017/IEC 60065:2014 (Excluding Cl.20.2.4 & Annex G)



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Medical Electrical Equipment		
1.	Medical Equipment	General requirements	(Cl.4) IS 13450 (Part 1):2024/ IEC60601-1:2020
2.		General requirements for testing ME Equipment	(Cl. 5) IS 13450 (Part 1): 2024/ IEC60601-1:2020
3.		Classification of ME equipment and ME systems	(Cl.6) IS 13450 (Part 1):2024/ IEC60601-1:2020
4.		ME Equipment Identification, marking and documents	(Cl.7) IS 13450 (Part 1):2024/ IEC60601-1:2020
5.		Fundamental rule of protection against Electric shock	(Cl.8.1) IS 13450 (Part 1):2024/ IEC60601-1:2020
6.		Requirements related to power sources	(Cl.8.2) IS 13450 (Part 1):2024/ IEC60601-1:2020
7.		Classification of applied Parts	(Cl.8.3) IS 13450 (Part 1):2024/ IEC60601-1:2020
8.		Limitation of Voltage or Energy	(Cl.8.4) IS 13450 (Part 1):2024/ IEC60601-1:2020
9.		Separation of parts	(Cl.8.5) IS 13450 (Part 1):2024/ IEC60601-1:2020
10.		Protective earthing, functional earthing and potential equalization of ME Equipment	(Cl.8.6) IS 13450 (Part 1):2024/ IEC60601-1:2020
11.		Leakage currents and patient Auxiliary currents	(Cl.8.7) IS 13450 (Part 1):2024/ IEC60601-1:2020

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



57 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Medical Electrical Equipment		
12.	Medical Equipment	Insulation	(Cl.8.8) IS 13450 (Part 1):2024/ IEC60601-1:2020 (Except 8.8.4.2)
13.		Creepage distances and air clearances	(Cl.8.9) IS 13450 (Part 1): 2024/IEC60601-1:2020
14.		Components and wiring (Visual Inspection Only)	(Cl. 8.10) IS 13450 (Part 1): 2024/IEC60601-1:2020
15.		Mains part, components and layout	(Cl.8.11) IS 13450 (Part 1): 2024/IEC60601-1:2020
16.		Mechanical hazards associated with moving parts	(Cl.9.1, Cl.9.2) IS 13450 (Part 1): 2024/IEC60601-1:2020
17.		Mechanical Hazard associated with surfaces, corner edges	(Cl.9.3) IS 13450 (Part 1): 2024/IEC60601-1:2020
18.		Instability Hazards	(Cl.9.4) IS 13450 (Part 1): (Except Cl.9.4.2.4)
19.		Excessive temperature in ME Equipment	(Cl.11.1,11.5) IS 13450 (Part 1): 2024/IEC60601-1:2020
20.		Hazardous situations and fault conditions for ME equipment	(Cl.13) IS 13450 (Part 1): 2024/IEC60601-1:2020 (Excluding CL. No.13.2.11)
21.		Construction of ME Equipment	(Cl. No.15.3.5) IS 13450 (Part 1): 2024/IEC60601-1:2020
22.		ME System	(Cl.16) IS 13450 (Part 1): 2024/IEC60601-1:2020

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



58 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
1.	CCTV Camera	Application Debug Interface Protection (1.1)	ER 01:09.04.2024
2.	CCTV Camera	Device Unique Crypto Keys (1.2)	ER 01:09.04.2024
3.	CCTV Camera	On-Chip Debug Interface Protection (1.3)	ER 01:09.04.2024
4.	CCTV Camera	Trusted Execution (1.4)	ER 01:09.04.2024
5.	CCTV Camera	Secure Storage (1.5)	ER 01:09.04.2024
6.	CCTV Camera	Tamper Protection (1.6)	ER 01:09.04.2024
7.	CCTV Camera	IP Protection (1.7)	ER 01:09.04.2024
8.	CCTV Camera	Boot Image Validation (1.8)	ER 01:09.04.2024
9.	CCTV Camera	Secure PRNG Usage (1.9)	ER 01:09.04.2024
10.	CCTV Camera	Memory Protection Controls (2.1)	ER 01:09.04.2024
11.	CCTV Camera	Data Transit Security (2.2)	ER 01:09.04.2024
12.	CCTV Camera	Server Connection Validation (2.3)	ER 01:09.04.2024
13.	CCTV Camera	Banned C Functions (2.4)	ER 01:09.04.2024
14.	CCTV Camera	Software Bill of Materials (2.5)	ER 01:09.04.2024
15.	CCTV Camera	Secure Code Review (2.6)	ER 01:09.04.2024

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



59 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
16.	CCTV Camera	Digital Signature Pinning (2.7)	ER 01:09.04.2024
17.	CCTV Camera	Reverse Engineering Protection (2.8)	ER 01:09.04.2024
18.	CCTV Camera	Update Process Security (2.9)	ER 01:09.04.2024
19.	CCTV Camera	Code Signing Verification (2.10)	ER 01:09.04.2024
20.	CCTV Camera	Firmware Downgrade Protection (2.11)	ER 01:09.04.2024
21.	CCTV Camera	Scheduled Firmware Updates (2.12)	ER 01:09.04.2024
22.	CCTV Camera	Wireless Mutual Authentication (3.1)	ER 01:09.04.2024
23.	CCTV Camera	Wireless Encrypted Channel (3.2)	ER 01:09.04.2024
24.	CCTV Camera	Trusted Supply Chain (3.3)	ER 01:09.04.2024
25.	CCTV Camera	Supply Chain Risk Management (3.4)	ER 01:09.04.2024
26.	CCTV Camera	Proprietary Protocols Management (3.5)	ER 01:09.04.2024
27.	CCTV Camera	Anti-Counterfeit Measures (4.1)	ER 01:09.04.2024
28.	CCTV Camera	Threat Mitigation (4.2)	ER 01:09.04.2024
29.	CCTV Camera	Malware Detection Deployment (4.3)	ER 01:09.04.2024
30.	CCTV Camera	Supply Chain Risk Assessment (4.4)	ER 01:09.04.2024

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



60 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
31.	IP Router	Access and Authorization, Authentication and Attribute Management, Software Security, System secure Execution Environment, User Audit, Data Protection, Network Service, Attack Prevention Mechanisms, Vulnerability Testing Requirements, Operating System, Web Servers, Other Security Requirements, Specific Security Requirements (SSR)	ITSAR201012401:03.01.2024
32.	Wi-Fi CPEs	Access and Authorization, Authentication and Attribute Management, Software Security, System secure Execution Environment, User Audit, Data Protection, Network Service, Attack Prevention Mechanisms, Vulnerability Testing Requirements, Operating System, Web interface, Other Security Requirements	ITSAR402122401:03.01.2024



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
33.	Optical Line terminal (OLT) – PON family Broadband Equipment	Access and Authorization, Authentication and Attribute Management, Software Security, System secure Execution Environment, User Audit, Data Protection, Network Service, Attack Prevention Mechanisms, Vulnerability Testing Requirements, Operating System, Web Servers, Other Security Requirements, Specific Requirement	ITSAR307072311:24.11.2023
34.	Optical Network Terminal (ONT) - PON family Broadband Equipment	Access and Authorization, Authentication and Attribute Management, Software Security, System secure Execution Environment, User Audit, Data Protection, Network Service, Attack Prevention Mechanisms, Vulnerability Testing Requirements, Operating System, Web Servers, Other Security Requirements, Specific Requirement	ITSAR403012311:24.11.2023



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
1.	Ambient Air	Arsenic (As)	Method IO 3.4-EPA/625/R-96/010a: 1999
2.		Iron (Fe)	Method IO 3.4-EPA/625/R-96/010a: 1999
3.		Mercury (Hg)	Method IO 3.4-EPA/625/R-96/010a: 1999
4.		Aluminium (Al)	Method IO 3.4-EPA/625/R-96/010a: 1999
5.		Nickel (Ni)	Method IO 3.4: EPA/625/R-96/010a: 1999
6.		Copper (Cu)	Method IO 3.4-EPA/625/R-96/010a: 1999
7.		Lead (Pb)	Method IO 3.4-EPA/625/R-96/010a: 1999
8.	Ambient Air Quality, Fugitive emission	Hydrogen Sulphide	IS 5182 (Part 7) : 2021
9.		Suspended Particulate Matter (SPM)	IS 5182 (Part 4) : 1999
10.		Arsenic (As)	Method No.804, Std.301 Methods of Air Sampling and Analysis. 3rd edition, AOAC, AWMA, ASME: 1988
11.		Benzene (C6H6)	IS 5182 (Part 11) : 2006
12.		Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



63 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
13.	Ambient Air Quality, Fugitive emission	Particulate Matter (Size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019
14.		Ammonia (NH ₃)	IS 5182 (Part 25): 2018
15.		Benzo a Pyrene (BaP) Particulate phase only	IS 5182 (Part 12): 2004
16.		Chlorine	IS 5182 (Part 19): 2022
17.		Nickel (Ni)	IS 5182 (Part 26): 2020
18.		Ozone (O ₃)	IS 5182 (Part 9): 1974
19.		Particulate Matter (Size less than 10 µm) or PM ₁₀	IS 5182 (Part 23): 2006
20.		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2) /Sec. 1: 2023
21.		Toluene	IS 5182 (Part 11): 2006
22.		Lead (Pb)	IS 5182 (Part 22): 2004
23.		Xylene	IS 5182 (Part 11): 2006
24.		Carbon Monoxide (CO)	IS 5182 (Part 10): 1999
25.	Work Environment and Indoor Air Quality	Suspended Particulate Matter	IS 5182 (Part 4): 1999
26.		Arsenic (As)	NIOSH 7303: 2003
27.		Nitrogen Dioxide (NO ₂)	NIOSH 6014: 1994
28.	Work Environment and Indoor Air Quality	Particulate Matter (Size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



64 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
29.		Ammonia (NH ₃)	NIOSH 6015: 1994
30.		Chlorine	Method of Air Sampling and Analysis 3 Rd Edition 806
31.		Nickel (Ni)	NIOSH 7303: 2003
32.		Oxygen (O ₂)	NIOSH 6601-ISSUE 2: 1994
33.		Respirable Suspended particulate matter (RSPM) (PM 10)	NIOSH 0600: 1998
34.		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2)/Sec. 1: 2023
35.		Total Dust/ Total aerosol/ SPM	NIOSH 500: 1994
36.		Lead (Pb)	NIOSH 7303: 2003
37.		Carbon Monoxide (CO)	NIOSH 6604: 2016
38.		Illumination/ Light intensity (Lux Level)	IS 6665: 1972
39.	Ambient Noise Level (Excluding Vibration)	Noise level (Leq, L10, L50, L90, LDN, LDN, LDN LMax., LMin.)	IS 9989: 1981
40.	Source Noise Level (Excluding Vibration)	Noise Level Leq/	IS 4758: 1968
41.	Source Noise Level (Excluding Vibration)	Noise Level Leq/Insertion loss	IS/ISO 8528-10 : 1998

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



65 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
		(for diesel / gas generator from 1-meter distance)	
42.	Stack Emission, Stationary source, DG set, Paint booth, Process Vent, Scrubber, Exhaust, Dust collector, Dryer, Boiler, Shot bursting and Furnace	Ammonia (NH ₃)	IS 11255 (Part 6): 1999
43.		Stack Temperature	IS 11255 (Part 3): 2008
44.		Flow Rate	IS 11255 (Part 3): 2008
45.		Oxide of Nitrogen (Nox)	IS 11255 (Part 7): 2005
46.		Oxygen (O ₂)	IS 13270: 1992
47.		Particulate Matter (PM)	IS 11255 (Part 1): 1985
48.		Carbon dioxide (CO ₂)	IS 13270: 1992
49.		Carbon Monoxide (CO)	IS 13270: 1992
50.		Moisture Content	IS 11255 (Part 3): 2008
51.		Sulphur dioxide (SO ₂)	IS 11255 (Part 2): 1985
52.		Flue Gas Velocity	IS 11255 (Part 3): 2008
53.		Mercury (Hg)	EPA 29: 2017
54.		Nickel (Ni)	EPA 29: 2017
55.	Stack Emission, Stationary source, DG set, Paint booth,	Lead (Pb)	EPA 29: 2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



66 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
	Process Vent, Scrubber, Exhaust, Dust collector, Dryer, Boiler, Shot bursting and Furnace		
56.	Meteorological parameters	Barometric Pressure	EPA 454/R-99-005: 2000
57.		Rain falls	EPA 454/R-99-005: 2000
58.		Relative Humidity	EPA 454/R-99-005: 2000
59.		Temperature	EPA 454/R-99-005: 2000
60.		Wind Direction	EPA 454/R 99-005: 2000
61.		Wind Speed	EPA 454/R -99-005: 2000



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
1.	Soil/Sediments	Aluminium (Al)	EPA 6010 D: 2018
2.		Antimony (Sb)	EPA 6010 D: 2018
3.		Arsenic (As)	EPA 6010 D: 2018
4.		Boron (B)	EPA 6010 D: 2018
5.		Barium (Ba)	EPA 6010 D: 2018
6.		Cadmium (Cd)	EPA 6010 D: 2018
7.		Calcium (Ca)	EPA 6010 D: 2018
8.		Chromium (Cr)	EPA 6010 D: 2018
9.		Cobalt (Co)	EPA 6010 D: 2018
10.		Copper (Cu)	EPA 6010 D: 2018
11.		Iron (Fe)	EPA 6010 D: 2018
12.		Lead (Pb)	EPA 6010 D: 2018
13.		Magnesium (Mg)	EPA 6010 D: 2018
14.		Manganese (Mn)	EPA 6010 D: 2018
15.		Mercury (Hg)	EPA 7471 B: 2007
16.		Mercury (Hg)	EPA 6010D: 2018
17.		Molybdenum (Mo)	EPA 6010 D: 2018
18.		Nickel (Ni)	EPA 6010 D: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



68 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
19.	Soil/Sediments	Potassium (K)	EPA 6010 D: 2018
20.	Soil/Sediments	Phosphorous (P)	EPA 6010 D: 2018
21.	Soil/Sediments	Sodium (Na)	EPA 6010 D: 2018
22.	Soil/Sediments	Selenium (Se)	EPA 6010 D: 2018
23.	Soil/Sediments	Tin (Sn)	EPA 6010 D: 2018
24.	Soil/Sediments	Titanium (Ti)	EPA 6010 D: 2018
25.	Soil/Sediments	Vanadium (V)	EPA 6010 D: 2018
26.	Soil/Sediments	Zinc (Zn)	EPA 6010 D: 2018
27.	Soil/Sediments	Nitrate	IS 14684: 1999
28.	Soil/Sediments	Ammonical Nitrogen/Total Kjeldahl Nitrogen	IS 14684: 1999
29.	Soil/Sediments	Bulk Density	IS 2720 (Part 29): 1975
30.	Soil/Sediments	Calcium Carbonate CaCO ₃	IS 2720 (Part 23): 1976
31.	Soil/Sediments	Cationic Exchange Capacity	IS 2720 (Part 24): 1976
32.	Soil/Sediments	Chloride	BS 1377 (Part 3): 2018
33.	Soil/Sediments	Electrical Conductivity	IS 14767: 2000
34.	Soil/Sediments	Moisture Content	IS 2720 (Part 2): 1973
35.	Soil/Sediments	Nitrogen as N	IS 14684: 1999

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



69 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
36.	Soil/Sediments	pH value	IS 2720 (Part 26): 1987
37.	Soil/Sediments	Silica (SiO ₂)	IS 2720 (Part 25): 1982
38.	Soil/Sediments	Specific Gravity	IS 2720 (Part 3): 1980
39.	Soil/Sediments	Total Organic Carbon	IS 2720 (Part 22): 1972
40.	Soil/Sediments	Total Soluble Solid	IS 2720 (Part 21): 1977
41.	Soil/Sediments	Total Soluble Sulphate	IS 2720 (Part 27): 1977
42.	Soil/Sediments	Total Sulphur	IS 14685: 1999
43.	Soil/Sediments	Water Retention Capacity	IS 14765: 2000
44.	Waste Water	Aluminium (Al)	IS 3025 (Part 2): 2019
45.	Waste Water	Antimony (Sb)	IS 3025 (Part 2): 2019
46.	Waste Water	Arsenic (As)	IS 3025 (Part 2): 2019
47.	Waste Water	Barium (Ba)	IS 3025 (Part 2): 2019
48.	Waste Water	Boron (B)	IS 3025 (Part 2) : 2019
49.	Waste Water	Cadmium (Cd)	IS 3025 (Part 2): 2019
50.	Waste Water	Calcium (Ca)	IS 3025 (Part 2): 2019
51.	Waste Water	Chromium (Cr)	IS 3025 (Part 2): 2019
52.	Waste Water	Copper (Cu)	IS 3025 (Part 2): 2019
53.	Waste Water	Iron (Fe)	IS 3025 (Part 2): 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



70 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
54.	Waste Water	Lead (Pb)	IS 3025 (Part 2): 2019
55.	Waste Water	Magnesium (Mg)	IS 3025 (Part 2): 2019
56.	Waste Water	Magnesium as Mg	IS 3025 (Part 46): 2023
57.	Waste Water	Manganese (Mn)	IS 3025 (Part 2): 2019
58.	Waste Water	Mercury (Hg)	KTRC/CHEM/SOP/31: 2022
59.	Waste Water	Mercury as Hg	IS 3025 (Part 48): 1994
60.	Waste Water	Molybdenum (Mo)	IS 3025 (Part 2): 2019
61.	Waste Water	Nickel (Ni)	IS 3025 (Part 2): 2019
62.	Waste Water	Potassium (K)	IS 3025 (Part 2): 2019
63.	Waste Water	Phosphorous (P)	IS 3025 (Part 2): 2019
64.	Waste Water	Silver (Ag)	IS 3025 (Part 2): 2019
65.	Waste Water	Sodium (Na)	IS 3025 (Part 2): 2019
66.	Waste Water	Selenium (Se)	IS 3025 (Part 2): 2019
67.	Waste Water	Vanadium (V)	IS 3025 (Part 2): 2019
68.	Waste Water	Zinc (Zn)	IS 3025 (Part 2): 2019
69.	Waste Water	Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34): 1988
70.	Waste Water	Bio Assay	IS 6582: 1971

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



71 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
	(Industrial Effluents)		
71.	Waste Water (Industrial Effluents)	Bio Assay (Using Zebra Fish)	IS 6582 (Part 2): 2001
72.	Waste Water	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 2023
73.	Waste Water	Bromide	IS 3025 Part 30: 2024
74.	Waste Water	Calcium as Ca	IS 3025 (Part 40): 2024
75.	Waste water	Caron dioxide	IS 3025 Part 61: 2008
76.	Waste Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2023
77.	Waste Water	Chloride	IS 3025 (Part 32): 1988
78.	Waste Water	Conductivity at 25 °C	IS 3025 (Part 14): 2013
79.	Waste Water	Dissolved Oxygen	IS 3025 (Part 38) :1989
80.	Waste water	Flocculation test (Jar test)	IS 3025 (Part 50): 2023
81.	Waste Water	Free Residue Chlorine	IS 3025 (Part 26): 2021
82.	Waste Water	Hardness	IS 3025 (Part 21): 2009
83.	Waste Water	Hexavalent Chromium	IS 3025 (Part 52): 2003

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



72 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
84.	Waste Water	Liquid Flow Measurement	IS 14573: 2014
85.	Waste Water	Nitrate Nitrogen	IS 3025 (Part 34): 1988
86.	Waste water	Nitrite Nitrogen as NO ₂	IS 3025 Part 34: 1988
87.	Waste Water	Nitrogen as N	IS 3025 (Part 34): 1988
88.	Waste Water	Odour	IS 3025 (Part 5): 2018
89.	Waste Water	Oil & Grease	IS 3025 (Part 39): 2021
90.	Waste Water	pH Value	IS 3025 (Part 11): 2022
91.	Waste Water	Phenolic Compound	IS 3025 (Part 43)/Sec. 1: 2022
92.	Waste Water	Phosphorous as P	IS 3025 (Part 31)/ Sec 1: 2022
93.	Waste Water	Salinity	APHA 23rd Ed 2520B: 2017
94.	Waste Water	Silica	IS 3025 (Part 35): 2024
95.	Waste Water	Sulphate as SO ₄	IS 3025 (Part 24)/Sec.1: 2022
96.	Waste Water	Sulphide	IS 3025 (Part 29): 2022
97.	Waste water	Sulphite as SO ₃	IS 3025 Part 28: 2024
98.	Waste Water	Temperature	IS 3025 (Part 9): 2023

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



73 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
99.	Waste Water	Total Dissolved Solid	IS 3025 (Part 16): 2023
100.	Waste Water	Total Kjeldahl Nitrogen	IS 3025 (Part 34): 1988
101.	Waste Water	Total Suspended Solid (TSS)	IS 3025 (Part 17): 2022
102.	Waste Water	Turbidity	IS 3025 (Part 10): 2023
103.	Waste Water	Settable Sludge	APHA 23rd Ed2710C (SVI): 2017
104.	Waste Water	Volatile and fixed solids (total, filterable and non-filterable) at 550°C	IS 3025 (Part 18): 2022
105.	Waste Water	Fluoride as F	IS 3025 (Part 60): 2008
106.	Waste Water	Total Solid	IS 3025 (Part 15): 2023
107.	Waste Water	Colour	IS 3025 (Part 4): 2021
108.	Waste Water	Acidity	IS 3025 (Part 22): 2024
109.	Waste Water	Alkalinity	IS 3025 (Part 23): 2023
110.	Waste Water	Sodium (Na)	IS 3025 (Part 45): 2024
111.	Waste Water	Potassium (K)	IS 3025 (Part 45): 2024
112.		Arsenic (As)	EPA 6010D: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



74 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
113.	Wastes (Liquid/Slurry/Sludge /Sludge/Semi-Solid)	Cadmium (Cd)	EPA 6010D: 2018
114.		Calcium (Ca)	EPA 6010D: 2018
115.		Chromium (Cr)	EPA 6010D: 2018
116.		Cobalt (Co)	EPA 6010D: 2018
117.		Iron (Fe)	EPA 6010D: 2018
118.		Lead (Pb)	EPA 6010D: 2018
119.		Magnesium (Mg)	EPA 6010D: 2018
120.		Manganese (Mn)	EPA 6010D: 2018
121.		Mercury (Hg)	EPA 6010D: 2018
122.		Nickel (Ni)	EPA 6010D: 2018
123.		Selenium (Se)	EPA 6010D: 2018
124.	Wastes (Liquid/Slurry/Sludge/Semi-Solid)	Zinc (Zn)	EPA 6010D: 2018
125.		Aluminium (Al)	EPA 6010D: 2018
126.		Antimony (Sb)	EPA 6010D: 2018
127.		Arsenic (As)	EPA 6010D: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



75 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
128.		Barium (Ba)	EPA 6010D: 2018
129.		Beryllium (Be)	EPA 6010D: 2018
130.		Boron (B)	EPA 6010D: 2018
131.		Copper (Cu)	EPA 6010D: 2018
132.		Molybdenum (Mo)	EPA 6010D: 2018
133.		Phosphorous (P)	EPA 6010D: 2018
134.		Silver (Ag)	EPA 6010D: 2018
135.		Sodium (Na)	EPA 6010D: 2018
136.		Tin (Sn)	EPA 6010D: 2018
137.		Titanium (Ti)	EPA 6010D: 2018
138.	Wastes (Liquid/Slurry/Sludge/ Sludge/Semi-Solid)	Vanadium (V)	EPA 6010D: 2018
139.		Potassium (K)	EPA 6010D: 2018
140.	Solid Waste	Calorific Value	IS 10158: 1982
141.		pH	IS 10158: 1982
142.	Municipal Solid Waste	Bulk Density	IS 16556: 2016

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



76 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
143.		pH	IS 16556: 2016
144.		Moisture	IS 16556: 2016
145.		Conductivity	IS 16556: 2016
146.		Total Organic Carbon	IS 16556: 2016
147.		Total Nitrogen as N	IS 16556: 2016
148.		Total Phosphorous as P2O5	IS 16556: 2016
149.		Total potassium as K2O	IS 16556: 2016



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
1.	Coarse Aggregate	Coal and Lignite	IS 2386 (Part 2) : 1963
2.		Clay lumps	IS 2386 (Part 2) : 1963
3.		Material finer than 75 micron IS sieve	IS 2386 (Part 1): 1963
4.		Soft fragment	IS 2386 (Part 2): 1963
5.		Organic Impurities	IS 2386 (Part 2): 1963
6.		Soundness by Magnesium Sulphate MgSO ₄	IS 2386 (Part 5): 1963
7.		Soundness by Sodium Sulphate Na ₂ SO ₄	IS 2386 (Part 5): 1963
8.		Alkali Reactivity (Chemical Method)	IS 2386 (Part 7): 1963
9.		Stripping Value of Aggregate	IS 6241: 1971
10.	Fine Aggregate	Coal and Lignite	IS 2386 (Part 2): 1963
11.		Clay lumps	IS 2386 (Part 2): 1963
12.		Material finer than 75 micron IS sieve	IS 2386 (Part 1): 1963
13.		Shale	IS 2386 (Part 2): 1963 (IS 383: 2016)
14.		Mica	IS 2386 (Part- 2): 1963 (SOP)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



78 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
15.	Fine Aggregate	Organic Impurities	IS 2386 (Part 2): 1963
16.		Sand Equivalent Value	IS 2720 (Part 37): 1976
17.		Soundness by Magnesium Sulphate MgSO ₄	IS 2386 (Part 5): 1963
18.		Soundness by Sodium Sulphate Na ₂ SO ₄	IS 2386 (Part 5): 1963
19.		Alkali Reactivity (Chemical Method)	IS 2386 (Part 7): 1963
20.		Silt content	IS 2386 (Part 2): 1963
21.	Manufactured Aggregates	Calcium Oxide as CaO	IS 4032: 1985
22.		Chlorine as NaCl	IS 4032: 1985
23.		Iron as FeO	IS 4032: 1985
24.		Magnesium oxide as MgO	IS 4032: 1985
25.		Silica as SiO ₂	IS 4032: 1985
26.		Sulphur as S	IS 4032: 1985
27.		Total alkali content as Na ₂ O	IS 4032: 1985
28.		Total sulphate content as SO ₃	IS 4032: 1985

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



79 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
29.	Manufactured Aggregates	Water soluble chloride	IS 14959 (Part 2): 2001
30.		Iron unsoundness	IS 383: 2016
31.		Acid soluble chloride content	IS 4032: 1985
32.	Bitumen Emulsion	Particle Charge	IS 8887: 2018
33.		Coagulation	IS 8887: 2018
34.		Coating ability & water resistance	IS 8887: 2018
35.		Distillation Test	IS 1213: 2020
36.		Miscibility with water	IS 8887: 2018
37.		Residue by evaporation	IS 8887: 2018
38.		Residue on 600 micron IS sieve	IS 8887: 2018
39.		Solubility in trichloroethylene	IS 1216: 2023
40.		Stability to mixing with cement	IS 8887: 2018
41.		Storage Stability after 24 hour	IS 8887: 2018
42.		Viscosity by Saybolt Furol Viscometer	IS 3117: 2004
43.		Water Content	IS 1211: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



80 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
44.	Bitumen & Bituminous material	Absolute Viscosity at 60 °C	IS 1206 (Part 2): 2022
45.		Kinematic Viscosity	IS 1206 (Part 3) : 2021
46.		Fire Point	IS 1209: 2021
47.		Fire Point	IS 1448 (Part 69) : 2019
48.		Flash Point	IS 1209: 2021
49.		Flash Point	IS 1448 (Part 69) : 2019
50.		Solubility in Trichloroethylene	IS 1216 : 1978
51.		Specific Gravity	IS 1202 : 2021
52.		Water Content	IS 1211 : 2022
53.	Bitumen Mastic for Flooring	Calcium Carbonate as CaCO ₃	IS 1195 : 2002
54.	Cements/Clinker/GGBS	Alumina as Al ₂ O ₃	IS 4032: 1985
55.		Calcium Oxide CaO	IS 4032: 1985
56.		Chloride Content	IS 4032: 1985
57.		Insoluble Residue	IS 4032: 1985
58.		Iron Oxide as Fe ₂ O ₃	IS 4032 : 1985

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



81 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
59.	Cements/Clinker/GGBS	Loss on Ignition	IS 4032: 1985
60.		Magnesia as MgO	IS 4032: 1985
61.		Silica as SiO ₂	IS 4032: 1985
62.		Sulphuric Anhydride as SO ₃	IS 4032: 1985
63.	Cements/GGBS	Sulphide Sulphur as S	IS 4032: : 1985
64.	Clinker	Free Lime	IS 4032: 1985
65.	Ground Granulated Blast Furnace Slag	Manganese Oxide as MnO	IS 4032: 1985
66.	High alumina refractory cement	Alumina as Al ₂ O ₃	IS 4032: 1985
67.	Cements	Titanium Oxide	IS 12107 (Part 5): 1987
68.	Cements/Clinker	Potassium Oxide as K ₂ O	IS 4032: 1985
69.		Sodium Oxide as Na ₂ O	IS 4032: 1985
70.	Calcined clay pozzolana	Sodium Oxide (Na ₂ O)	IS 4032: 1985
71.		Water soluble alkali	IS 4032 : 1985
72.		Potassium oxides as (K ₂ O)	IS 4032: 1985
73.		Water soluble material	IS 1727: 1985

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



82 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
74.	Pulverized Fuel Ash	Chloride content	IS 4032: 1985
75.		Moisture Content	IS 3812 (Part 1): 2013
76.		Moisture Content	IS 3812 (Part 2): 2013
77.		Potassium oxides as K ₂ O	IS 3812 (Part 1 & 2): 2013
78.		Reactive Silica	IS 3812 (Part 1): 2013
79.		Sodium Oxide (Na ₂ O)	IS 3812 (Part 1 & 2): 2013
80.		Sodium Oxide (Na ₂ O)	IS 4032: 1985
81.	Pulverized Fuel Ash/ Calcined clay pozzolana	Alumina as Al ₂ O ₃	IS 1727: 1967
82.		Calcium oxide as CaO	IS 1727: 1967
83.		Loss on Ignition	IS 1727: 1967
84.		Silica as SiO ₂	IS 1727: 1967
85.		Iron Oxide as Fe ₂ O ₃	IS 1727: 1967
86.		Magnesium oxide as MgO	IS 1727: 1967
87.		Sulphuric Anhydride as SO ₃	IS 1727: 1967
88.	Gypsum	Calcium Oxide as CaO	IS 1288: 1982

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



83 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
89.	Gypsum	Combined water	IS 1288: 1982
90.		Free water	IS 1288: 1982
91.		Insoluble matter	IS 1288: 1982
92.		Iron and Aluminium Oxide	IS 1288: 1982
93.		Magnesium as MgO	IS 1288: 1982
94.		Silica as SiO ₂	IS 1288: 1982
95.		Sodium Chloride as NaCl	IS 1288: 1982
96.		Sulphur Trioxide as SO ₃	IS 1288: 1982
97.	Gypsum Building Plaster	Free lime	IS 2547 (Part 1): 1976
98.		Free lime	IS 2547 (Part 2): 1976
99.		Loss on ignition	IS 2547 (Part 1): 1976
100.		Soluble magnesium salt as MgO	IS 2547 (Part 1): 1976
101.		Soluble magnesium salt as MgO + Na ₂ O	IS 2547 (Part 2): 1976
102.		Soluble sodium salt as Na ₂ O	IS 2547 (Part-1): 1976
103.	Building Lime	Alumina	IS 6932 (Part 1): 1973

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



84 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
104.	Building Lime	Available lime as CaO	IS 1514: 1990
105.		Calcium oxide	IS 6932 (Part 1) : 1973
106.		Carbon dioxide	IS 6932 (Part 2) : 1973
107.		Ferric Oxide	IS 6832 (Part 1): 1973
108.		Free moisture	IS 1514: 1990
109.		Insoluble Residue in dilute acid and alkalis	IS 6932 (Part 1): 1973
110.		Magnesium Oxide	IS 6932 (Part 1): 1973
111.		Silica as SiO ₂	IS 6932 (Part 1): 1973
112.		Sulphuric anhydride as SO ₃	IS 6932 (Part 5): 1973
113.		Loss on ignition	IS 6932 (Part 1): 1973
114.	Concrete	Chloride	IS 14959 (Part 1): 2001
115.		Chloride	IS 14959 (Part 2): 2001
116.		Sulphate	IS 2317: 1975
117.	Construction chemicals- Admixture	Ash Content	IS 9103: 1999
118.		Chloride Content	IS 6925: 1973

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



85 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
119.	Construction chemicals- Admixture	Dry Material Content	IS 9103: 1999
120.		Ph	IS 9103: 1999
121.		Relative Density	IS 9103: 1999
122.	Ceramic Unglazed Vitreous Acid Resisting Tiles	Resistance to Chemical 1) Resistance to low concentrations of acids and alkalies 2) Resistance to high concentrations of acids and alkalies 3) Resistance to household chemicals and swimming pool salts)	IS 4457: 2007
123.	Ceramic Unglazed Vitreous Acid Resisting Tiles	Resistance to concentrated HNO ₃ & H ₂ SO ₄	IS 4457: 2007
124.	Pressed Ceramic Tile	Resistance to Acids and Alkalies	IS 13630 (Part 8): 2019
125.		Resistance to Acids and Alkalies	IS 13630 (Part 7) : 2019
126.		Resistance to House Hold Chemicals and Swimming Pool Salts	IS 13630 (Part 8): 2019
127.		Resistance to House Hold Chemicals and Swimming Pool Salts	IS 13630 (Part 7): 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



86 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
128.	Pressed Ceramic Tile	Resistance to Staining	IS 13630 (Part 7): 2019
129.		Resistance to Staining	IS 13630 (Part 8): 2019
130.	Abrasive powder	Alumina as Al ₂ O ₃	IS 2000: 1985
131.		Specific gravity	KTRC/CHEM/SOP/12: 2016
132.	Pigment	Lead as Pb	EPA 6010D: 2018
133.		Zinc as Zn	EPA 6010D: 2018
134.	Silica Fume	Alkali as Na ₂ O	IS 4032: 1985
135.		Loss on ignition	IS 1727: 1967
136.		Moisture Content	IS 15388: 2003
137.		SiO ₂	IS 1727: 1967
138.	Soil Stabilizing Material	Soluble Sulphate	IS 2720 (Part 27): 1977
139.	Water Proofing Compound	Chloride Content	IS 6925: 1973
140.	Bentonite	pH	IS 6186: 1986



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallic coatings & treatment solutions		
1.	Epoxy Coated Bar	Chemical Resistance	IS 13620: 1993
2.	Epoxy Coated Bar	Resistance to Applied Voltage (Type of Accelerated Corrosion Test)	IS 13620: 1993
3.	Metallic Coating of sheets, wires and zinc coated articles	Adhesion Test	IS 1835: 1976
4.		Adhesion Test	IS 2629: 1985
5.		Adhesion Test	IS 3975: 1999
6.		Adhesion	IS 4826: 1979
7.		Chromate Film Test (Electroplating)	IS 1573: 1986
8.		Coating Thickness	IS 6012: 1992
9.		Coating Adhesion Test	IS 15961: 2012
10.		Coating mass	IS 15961: 2012
11.		Free Bore Test	IS 4736: 1986
12.		Freedom from defect	IS 2629: 1985
13.		Organic Coating	KTRC/CHEM/SOP/23: 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



88 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallic coatings & treatment solutions		
14.	Metallic Coating of sheets, wires and zinc coated articles	Powder Coating	IS 101 (Part 3)/ Sec. 2: 1989
15.		Uniformity of Zinc Coating	IS 2633: 1986
16.		Anodic Coating	IS 5523: 1983
17.		Mass of Zinc Coating	IS 6745: 1972
18.		Thickness of Zinc Coating	ASTM E 376
19.		Thickness of coating	IS 18385: 2023



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Corrosion Tests		
1.	Stainless steel	Corrosion resistance	IS 10461 (Part 1): 1983
2.	Stainless steel	Corrosion resistance	IS 10461 (Part 2): 1985
3.	Ferrous and Non-ferrous metal	Salt Spray Test	IS 9844 :1981
4.	Ferrous and Non-ferrous metal	Salt Spray Test	KTRC/MECH/SOP/11: 2024
5.	Stainless steel	Corrosion resistance	ISO 3651 (Part 2): 1998



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resins		
1.	CPVC Resin & Compound	Chlorine content	IS 15778: 2007 (Annex. B)
2.	Thermoplastic pipes and fittings	Cadmium (Cd)	IS 12235 (Part 4): 2004
3.		Dialkyl tin C4 & higher homologues measured as tin	IS 12235 (Part 10): 2004
4.		Lead (as Pb)	IS 12235 (Part 4): 2004
5.		Mercury (as Hg)	IS 12235 (Part 4): 2004
6.		Other toxic substance	IS 12235 (Part 10): 2004
7.		Resistance to Sulphuric acid	IS 12235 (Part 7): 2004
8.	UPVC fittings	Sulphated ash content	IS 14735: 1999 (Annex B)
9.		Sulphated ash content	IS 4985: 2021 (Annex B)
10.		Titanium dioxide content	IS 14735: 1999 (Annex A)
11.	Raw material	Toluene extract of carbon black	IS 12786: 2024(Annex A)
12.		Volatile matter	IS 4984: 2016 (Annex C)
13.		Volatile matter in carbon black	IS 12786:2024 (Annex B)
14.		Water content	IS 4984: 2016 (Annex D)
15.	Polyethylene Compound	Antioxidant	IS 2530: 1983

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



91 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resins		
16.	Resin	K Value	IS 4669: 1968
17.	Resin	VCM content	IS 10151: 2019 Annex A
18.	Raw material	Ash content	IS 4984: 2016
19.	Plastics	Ash content	IS 1 3360 (Part 8/sec. 8): 2021
20.	Raw material	Toluene extract in carbon black	IS 4984: 2016
21.	Plastics & Polymers	Ash content	IS 17425: 2020
22.	CPVC Compound	Ash Content	IS 15225: 2002 (Annex. C)



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
1.	Carbon Steel	Aluminium (Al)	ASTM E415: 2021
2.		Boron (B)	ASTM E415: 2021
3.		Calcium (Ca)	ASTM E 415: 2021
4.		Carbon (C)	ASTM E415: 2021
5.		Chromium (Cr)	ASTM E415: 2021
6.		Copper (Cu)	ASTM E415: 2021
7.		Manganese (Mn)	ASTM E415: 2021
8.		Molybdenum (Mo)	ASTM E415: 2021
9.		Nickel (Ni)	ASTM E415: 2021
10.		Niobium (Nb)	ASTM E415: 2021
11.		Silicon (Si)	ASTM E415: 2021
12.		Phosphorus (P)	ASTM E415: 2021
13.		Sulphur (S)	ASTM E415: 2021
14.		Tin (Sn)	ASTM E415: 2021
15.		Vanadium (V)	ASTM E415: 2021
16.		Titanium (Ti)	ASTM E415: 2021
17.		Aluminium (Al)	IS 8811: 1998
18.		Boron (B)	IS 8811: 1998

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



93 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
19.	Carbon Steel	Carbon (C)	IS 8811: 1998
20.		Chromium (Cr)	IS 8811: 1998
21.		Copper (Cu)	IS 8811: 1998
22.		Manganese (Mn)	IS 8811: 1998
23.		Molybdenum (Mo)	IS 8811: 1998
24.		Nickel (Ni)	IS 8811: 1998
25.		Niobium (Nb)	IS 8811: 1998
26.		Silicon (Si)	IS 8811: 1998
27.		Phosphorus (P)	IS 8811: 1998
28.		Sulphur (S)	IS 8811: 1998
29.		Tin (Sn)	IS 8811: 1998
30.		Titanium (Ti)	IS 8811: 1998
31.		Vanadium (V)	IS 8811: 1998
32.		Carbon (C)	IS 228 (Part 1): 2025
33.		Manganese (Mn)	IS 228 (Part 2): 2024
34.		Phosphorus (P)	IS 228 (Part 3): 2024
35.		Nickel (Ni)	IS 228 (Part 5): 1987
36.		Chromium (Cr)	IS 228 (Part 6): 2024

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



94 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
37.	Carbon Steel	Silicon (Si)	IS 228 (Part 8): 1989
38.		Sulphur as S	IS 228 (Part 9): 1989
39.		Molybdenum (Mo)	IS 228 (Part 10): 1989
40.		Manganese (Mn)	IS 228 (Part 12): 2001
41.		Copper (Cu)	IS 228 (Part 15): 1992
42.		Tungsten (W)	IS 228 (Part 16): 1992
43.		Nitrogen (N)	IS 228 (Part 19): 1998
44.		Aluminium (Al)	KTRC/SOP/30: 2022
45.		Boron (B)	KTRC/SOP/30: 2022
46.		Calcium (Ca)	KTRC/SOP/30: 2022
47.		Chromium (Cr)	KTRC/SOP/30: 2022
48.		Cobalt (Co)	KTRC/SOP/30: 2022
49.		Copper (Cu)	KTRC/SOP/30: 2022
50.		Manganese (Mn)	KTRC/SOP/30: 2022
51.		Molybdenum (Mo)	KTRC/SOP/30: 2022
52.		Nickel (Ni)	KTRC/SOP/30: 2022
53.		Niobium (Nb)	KTRC/SOP/30: 2022
54.		Phosphorous (P)	KTRC/SOP/30: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



95 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
55.	Carbon Steel	Silicon (Si)	KTRC/SOP/30: 2022
56.		Titanium (Ti)	KTRC/SOP/30: 2022
57.		Tungsten (W)	KTRC/SOP/30: 2022
58.		Vanadium (V)	KTRC/SOP/30: 2022
59.		Aluminium (Al)	JIS G 1253: 2013
60.		Boron (B)	JIS G 1253: 2013
61.		Calcium (Ca)	JIS G 1253: 2013
62.		Carbon (C)	JIS G 1253: 2013
63.		Chromium (Cr)	JIS G 1253: 2013
64.		Copper (Cu)	JIS G 1253: 2013
65.		Manganese (Mn)	JIS G 1253: 2013
66.		Molybdenum (Mo)	JIS G 1253: 2013
67.		Nickel (Ni)	JIS G 1253: 2013
68.		Niobium (Nb)	JIS G 1253: 2013
69.		Phosphorus (P)	JIS G 1253: 2013
70.		Silicon (Si)	JIS G 1253: 2013
71.		Sulphur (S)	JIS G 1253: 2013
72.		Tin (Sn)	JIS G 1253: 2013



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
73.	Carbon Steel	Titanium (Ti)	JIS G 1253: 2013
74.		Tungsten (W)	JIS G 1253: 2013
75.		Vanadium (V)	JIS G 1253: 2013
76.		Cobalt (Co)	JIS G 1253: 2013
77.		Lead (Pb)	JIS G 1253: 2013
78.		Arsenic (As)	JIS G 1253: 2013
79.		Selenium (Se)	JIS G 1253: 2013
80.		Antimony (Sb)	JIS G 1253: 2013
81.		Zirconium (Zr)	JIS G 1253: 2013
82.	Stainless Steel	Carbon (C)	ASTM E 1086: 2022
83.		Chromium (Cr)	ASTM E 1086: 2022
84.		Copper (Cu)	ASTM E 1086: 2022
85.		Manganese (Mn)	ASTM E 1086: 2022
86.		Molybdenum (Mo)	ASTM E1086: 2022
87.		Nickel (Ni)	ASTM E1086: 2022
88.		Phosphorus (P)	ASTM E1086: 2022
89.		Sulphur (S)	ASTM E1086: 2022
90.		Silicon (Si)	ASTM E1086: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



97 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
91.	Stainless steel	Carbon (C)	IS 9879: 1998
92.		Chromium (Cr)	IS 9879: 1998
93.		Copper (Cu)	IS 9879: 1998
94.		Molybdenum (Mo)	IS 9879: 1998
95.		Manganese (Mn)	IS 9879: 1998
96.		Nickel (Ni)	IS 9879: 1998
97.		Phosphorus (P)	IS 9879: 1998
98.		Silicon (Si)	IS 9879: 1998
99.		Sulphur (S)	IS 9879: 1998
100.		Carbon (C)	IS 228 (Part 1): 2025
101.		Manganese (Mn)	IS 228 (Part 2): 2024
102.		Phosphorous (P)	IS 228 (Part 3): 2024
103.		Nickel (Ni)	IS 228 (Part 5): 1987
104.		Chromium (Cr)	IS 228 (Part 1): 2025
105.		Molybdenum (Mo)	IS 228 (Part 7): 2025
106.		Silicon (Si)	IS 228 (Part 8): 1989
107.		Sulphur (S)	IS 228 (Part 9): 1989
108.		Manganese (Mn)	IS 228 (Part 12): 2001

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



98 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
109.	Stainless steel	Copper (Cu)	IS 228 (Part 15): 1992
110.		Nitrogen (N)	IS 228 (Part 19): 1998
111.		Aluminium (Al)	KTRC/SOP/30: 2022
112.		Boron (B)	KTRC/SOP/30: 2022
113.		Cobalt (Co)	KTRC/SOP/30: 2022
114.		Copper (Cu)	KTRC/SOP/30: 2022
115.		Manganese (Mn)	KTRC/SOP/30: 2022
116.		Molybdenum (Mo)	KTRC/SOP/30: 2022
117.		Nickel (Ni)	KTRC/SOP/30: 2022
118.		Niobium (Nb)	KTRC/SOP/30: 2022
119.		Phosphorus (P)	KTRC/SOP/30: 2022
120.		Silicon (Si)	KTRC/SOP/30: 2022
121.		Tantalum (Ta)	KTRC/SOP/30: 2022
122.		Titanium (Ti)	KTRC/SOP/30: 2022
123.		Tungsten (W)	KTRC/SOP/30: 2022
124.		Vanadium (V)	KTRC/SOP/30: 2022
125.		Zirconium (Zr)	KTRC/SOP/30: 2022
126.		Aluminum (Al)	JIS G 1253: 2013
127.		Selenium (Se)	JIS G 1253: 2013
128.		Selenium (Se)	KTRC/SOP/30: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



99 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
129.	Stainless Steel	Carbon (C)	JIS G 1253: 2013
130.		Chromium (Cr)	JIS G 1253: 2013
131.		Cobalt (Co)	JIS G 1253: 2013
132.		Copper (Cu)	JIS G 1253: 2013
133.		Manganese (Mn)	JIS G 1253: 2013
134.		Molybdenum (Mo)	JIS G 1253: 2013
135.		Nickel (Ni)	JIS G 1253: 2013
136.		Niobium (Nb)	JIS G 1253: 2013
137.		Phosphorus (P)	JIS G 1253: 2013
138.		Silicon (Si)	JIS G 1253: 2013
139.		Sulphur (S)	JIS G 1253: 2013
140.		Boron (B)	JIS G 1253: 2013
141.		Titanium (Ti)	JIS G 1253: 2013
142.		Tungsten (W)	JIS G 1253: 2013
143.		Vanadium (V)	JIS G 1253: 2013
144.		Zirconium (Zr)	JIS G 1253: 2013
145.		Cerium (Ce)	JIS G 1253: 2013
146.		Tantalum (Ta)	JIS G 1253: 2013



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
147.	Copper and Its Alloys	Cadmium (Cd)	BS EN 15079: 2015
148.		Chromium (Cr)	BS EN 15079: 2015
149.		Iron (Fe)	BS EN 15079: 2015
150.		Lead (Pb)	BS EN 15079: 2015
151.		Manganese (Mn)	BS EN 15079: 2015
152.		Nickel (Ni)	BS EN 15079: 2015
153.		Phosphorus (P)	BS EN 15079: 2015
154.		Silicon (Si)	BS EN 15079: 2015
155.		Silver (Ag)	BS EN 15079: 2015
156.		Sulphur (S)	BS EN 15079: 2015
157.		Tin (Sn)	BS EN 15079: 2015
158.		Zinc (Zn)	BS EN 15079: 2015
159.	Aluminum and Its Alloys	Calcium	ASTM E1251: 2017
160.		Chromium (Cr)	ASTM E 1251: 2017
161.		Copper (Cu)	ASTM E 1251: 2017
162.		Iron (Fe)	ASTM E 1251: 2017
163.		Lead (Pb)	ASTM E 1251: 2017
164.		Magnesium (Mg)	ASTM E 1251: 2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



101 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
165.	Aluminium and Its Alloys	Manganese	ASTM E 1251: 2017
166.		Nickel (Ni)	ASTM E 1251: 2017
167.		Silicon (Si)	ASTM E 1251: 2017
168.		Tin (Sn)	ASTM E 1251: 2017
169.		Titanium (Ti)	ASTM E 1251: 2017
170.		Zinc (Zn)	ASTM E 1251: 2017
171.	Cast Iron	Carbon (C)	ASTM E 1999: 2018
172.		Chromium (Cr)	ASTM E 1999: 2018
173.		Copper (Cu)	ASTM E 1999: 2018
174.		Manganese (Mn)	ASTM E 1999: 2018
175.		Nickel (Ni)	ASTM E 1999: 2018
176.		Phosphorus (P)	ASTM E 1999: 2018
177.		Silicon (Si)	ASTM E 1999: 2018
178.		Sulphur (S)	ASTM E 1999: 2018
179.		Titanium (Ti)	ASTM E 1999: 2018
180.		Aluminium (Al)	JIS G 1253: 2013
181.		Carbon (C)	JIS G 1253: 2013
182.		Chromium (Cr)	JIS G 1253: 2013

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



102 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
183.	Cast Iron	Cobalt (Co)	JIS G 1253: 2013
184.		Copper (Cu)	JIS G 1253: 2013
185.		Manganese (Mn)	JIS G 1253: 2013
186.		Molybdenum (Mo)	JIS G 1253: 2013
187.		Nickel (Ni)	JIS G 1253: 2013
188.		Niobium (Nb)	JIS G 1253: 2013
189.		Phosphorus (P)	JIS G 1253: 2013
190.		Silicon (Si)	JIS G 1253: 2013
191.		Sulphur (S)	JIS G 1253: 2013
192.		Boron (B)	JIS G 1253: 2013
193.		Titanium (Ti)	JIS G 1253: 2013
194.		Lead (Pb)	JIS G 1253: 2013
195.		Vanadium (V)	JIS G 1253: 2013
196.		Tin (Sn)	JIS G 1253: 2013
197.		Arsenic (As)	JIS G 1253: 2013
198.		Selenium (Se)	JIS G 1253: 2013
199.		Antimony (Sb)	JIS G 1253: 2013
200.	Tool steel	Carbon (C)	JIS G 1253: 2013

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



103 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
201.	Tool steel	Chromium (Cr)	JIS G 1253: 2013
202.		Cobalt (Co)	JIS G 1253: 2013
203.		Copper (Cu)	JIS G 1253: 2013
204.		Manganese (Mn)	JIS G 1253: 2013
205.		Molybdenum (Mo)	JIS G 1253: 2013
206.		Nickel (Ni)	JIS G 1253: 2013
207.		Niobium (Nb)	JIS G 1253: 2013
208.		Phosphorus (P)	JIS G 1253: 2013
209.		Silicon (Si)	JIS G 1253: 2013
210.		Sulphur (S)	JIS G 1253: 2013
211.		Titanium (Ti)	JIS G 1253: 2013
212.		Tungsten (W)	JIS G 1253: 2013
213.		Vanadium (V)	JIS G 1253: 2013



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Industrial & Fine Chemicals		
1.	Alumino ferric	Arsenic (as As ₂ O ₃)	IS 299: 2012 (A-9)
2.	Alumino ferric	Cadmium (as Cd)	IS 299: 2012 (A-13)
3.	Alumino ferric	Chromium (as Cr)	IS 299: 2012 (A-12)
4.	Alumino ferric	Description	IS 299: 2012 (Cl. 4.1)
5.	Alumino ferric	Free acidity (as H ₂ SO ₄) /Basicity (as Al ₂ O ₃)	IS 299: 2012 (A-7)
6.	Alumino ferric	Insoluble Matter	IS 299: 2012 (A-3)
7.	Alumino ferric	Lead (as Pb)	IS 299: 2012 (A-8)
8.	Alumino ferric	Manganese (as Mn)	IS 299: 2012 (A-11)
9.	Alumino ferric	Mercury (as Hg)	IS 299: 2012 (A-10)
10.	Alumino ferric	Organic impurities: • Anionic Detergents (as MBAS)	IS 299: 2012 ((A-16)
11.	Alumino ferric	Organic impurities: Phenolic compounds (as C ₆ H ₅ OH)	IS 299: 2012 (A-15)
12.	Alumino ferric	pH (of 5% Aqueous Solution)	IS 299: 2012 (A-6)
13.	Alumino ferric	Selenium (as Se)	IS 299: 2012 (A-14)
14.	Alumino ferric	Soluble Iron Compound (as Fe ₂ +& Fe ₃ +))	IS 299: 2012 (A-4)
15.	Alumino ferric	Water soluble aluminum Compounds (as Al ₂ O ₃)	IS 299: 2012 (A-5)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



105 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Construction Water	Chloride	IS 3025 (Part 32): 1988
2.		Inorganic Matter, Volatile and Fixed Solids (Total, Filterable and Non-Filterable) at 550°C	IS 3025 (Part 18): 2022
3.		Organic matter	IS 3025 (Part 18): 2022
4.		pH value	IS 3025 (Part 11): 2022
5.		Sulphates (SO ₄)	IS 3025 (Part 24/Sec1): 2022
6.		Suspended Solid	IS 3025 (Part 17): 2022
7.		To neutralize 100 ml Sample of water by 0.02 Normal NaOH, Using Phenolphthalein as an Indicator	IS 3025 (Part 22): 2024
8.		To neutralize 100ml Sample of water 0.02 Normal H ₂ SO ₄ , Using Mixed Indicator.	IS 3025 (Part 23) : 2023
9.	Ground water, Surface water, Borewell water, Potable water, Raw water, Domestic water, Industrial water, Irrigation water, RO water, soft water, DM water, drinking water,	Aluminium (Al)	IS 3025 (Part 2): 2019
10.		Antimony (Sb)	IS 3025 (Part 2): 2019
11.		Arsenic (As)	IS 3025 (Part 2): 2019
12.		Boron (B)	IS 3025 (Part 2): 2019
13.		Barium (Ba)	IS 3025 (Part 2): 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



106 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
14.	Package drinking water & Swimming Pool water	Cadmium (Cd)	IS 3025 (Part 2): 2019
15.		Calcium (Ca)	IS 3025 (Part 2): 2019
16.	Ground water, Surface water, Borewell water, Potable water, Raw water, Domestic water, Industrial water, Irrigation water, RO water, soft water, DM water, drinking water, 6Package drinking water & Swimming Pool water	Calcium (Ca)	IS 3025 (Part 40): 2024
17.		Chromium (Cr)	IS 3025 (Part 2): 2019
18.		Copper (Cu)	IS 3025 (Part 2): 2019
19.		Iron (Fe)	IS 3025 (Part 2): 2019
20.		Lead (Pb)	IS 3025 (Part 2): 2019
21.		Manganese (Mn)	IS 3025 (Part 2): 2019
22.		Magnesium (Mg)	IS 3025 (Part 46): 2023
23.		Molybdenum (Mo)	IS 3025 (Part 2): 2019
24.		Magnesium (Mg)	IS 3025 (Part 2): 2019
25.		Mercury (Hg)	IS 3025 (Part 48): 1994
26.		Nickel (Ni)	IS 3025 (Part 2): 2019
27.		Phosphorous as P	IS 3025 (Part 2): 2019
28.		Potassium (K)	IS 3025 (Part 2): 2019
29.		Potassium (K)	IS 3025 (Part 45): 2024
30.		Selenium (Se)	IS 3025 (Part 2): 2019
31.		Silicon (Si)	IS 3025 (Part 2): 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



107 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
32.		Silver (Ag)	IS 3025 (Part 2): 2019
33.		Sodium (Na)	IS 3025 (Part 2): 2019
34.		Sodium as Na	IS 3025 (Part 45) : 2024
35.		Vanadium (V)	IS 3025 (Part 2): 2019
36.		Zinc (Zn)	IS 3025 (Part 2): 2019
37.		pH value	IS 3025 (Part 11): 2022
38.	Ground water, Surface water, Borewell water, Potable water, Raw water, Domestic water, Industrial water, Irrigation water, RO water, soft water, DM water, drinking water, Package drinking water & Swimming Pool water	Acidity	IS 3025 (Part 22): 2024
39.		Alkalinity	IS 3025 (Part 23): 2023
40.		Ammonia (as Total Ammonia -N)	IS 3025 (Part 34): 1988
41.		Biochemical Oxygen Demand	IS 3025 (Part 44): 2023
42.		Bromide	IS 3025 (Part 30): 2024
43.		Carbon dioxide (CO ₂)	IS 3025 (Part 61): 2008
44.		Chloride	IS 3025 (Part 32): 1988
45.		Chlorine Demand	IS 3025 (Part 25): 2024
46.		Colour	IS 3025 (Part 4): 2021
47.		Conductivity	IS 3025 (Part 14): 2013
48.		Dissolved Oxygen (DO)	IS 3025 (Part 38): 1989

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



108 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
49.		Filterable Residue (Total Dissolved Solids) at 180 °C	IS 3025 (Part 16): 2023
50.		Fluoride (F)	IS 3025 (Part 60): 2008
51.		Free Residual Chlorine	IS 3025 (Part 26): 2021
52.		Hexavalent Chromium (Cr+6)	IS 3025 (Part 52): 2003
53.		Nitrate (as NO ₃)	IS 3025 (Part 34): 1988
54.		Nitrite Nitrogen (as NO ₂)	IS 3025 (Part 34): 1988
55.	Ground water, Surface water, Borewell water, Potable water, Raw water, Domestic water, Industrial water, Irrigation water, RO water, soft water, DM water, drinking water, Package drinking water & Swimming Pool water	Odour	IS 3025 (Part 5): 2018
56.		Oil & Grease /Mineral Oil	IS 3025 (Part 39): 2021
57.		Organic Matter	IS 3025 (Part 18): 2022
58.		Phenolic Compound	IS 3025 (Part 43/Sec.1): 2022
59.		Phosphorous as P	IS 3025 (Part 31)/ Sec 1: 2022
60.		Settable matter	IS 3025 (Part 19): 2018
61.		Silica	IS 3025 (Part 35): 2024
62.		Sulphate as (SO ₄)	IS 3025 (Part 24)/Sec.1: 2022
63.		Sulphide (as H ₂ S)	IS 3025 (Part 29): 2022
64.		Sulphite (as SO ₃)	IS 3025 (Part 28): 2024
65.		Temperature	IS 3025 (Part 9): 2023

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



109 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
66.		Total Hardness	IS 3025 (Part 21): 2009
67.		Total Solid (Total Solid - Dissolved & Suspended)	IS 3025 (Part 15): 2023
68.		Total Suspended Solid	IS 3025 (Part 17): 2022
69.	Ground water, Surface water, Borewell water, Potable water,	Turbidity	IS 3025 (Part 10): 2023
70.	Raw water, Domestic water, Industrial water, Irrigation water, RO water, soft water,	Volatile and Fixed Solids (Total, Filterable and Non-Filterable) at 550°C	IS 3025 (Part 18): 2022
71.	DM water, drinking water,	Chemical Oxygen Demand	IS 3025 (Part 58): 2023
72.	Package drinking water & Swimming Pool water	Taste	IS 3025 (Part 8): 2023
73.		Total Kjeldahl Nitrogen	IS 3025 (Part 34): 1988
74.		Ammonical Nitrogen as NH ₄ -N	IS 3025 (Part 34): 1988
75.		Nitrogen as N	IS 3025 (Part 34): 1988



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	Ash Content	IS 1350 (Part 1): 1984
2.	Coal	Gross Calorific Value	IS1350 (Part 2): 2022
3.	Coal	Moisture Content	IS 1350(Part 1): 1984
4.	Coal	Sulphur	IS 1350 (Part 3): 2022
5.	Coal	Volatile Matter	IS 1350 (Part 1): 1984
6.	Coal	Fixed Carbon	IS 1350 (Part-1): 1984
7.	Briquettes	Gross Calorific Value	IS 17654: 2021
8.	Briquettes	Ash Content	IS 17653: 2021
9.	Briquettes	Moisture Content	IS 17655 (Part 1,2 & 3): 2021
10.	Briquettes	Volatile Matter	IS 17844: 2022



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
1.	Concrete Admixture	Loss of workability on standing	IS 9103: 1999
2.		Air content	IS 1199 (Part 4): 2018
3.		Bleeding	IS 9103: 1999
4.		Flow	IS 9103: 1999
5.		Slump/Workability	IS 1199 (Part 2): 2018
6.		Compressive Strength percent of control sample	IS 516: 1959
7.		Flexural Strength	IS 516: 1959
8.		Length change/ Drying shrinkage	IS 516 (Part 6): 2020
9.		Time of setting (Initial & Final)	IS 1199 (Part 7): 2018
10.		Water content, % of control sample	IS 9103: 1999
11.	All-in-Aggregate/ Coarse Aggregate	Material finer than 75 micron	IS 2386 (Part 1): 1963
12.		10 % Fine value	IS 2386 (Part 4): 1963
13.		Accelerated Mortar bar Method	IS 2386 (Part 7): 1963
14.		Aggregate Abrasion value	IS 2386 (Part 4): 1963

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



112 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
15.	All-in-Aggregate/ Coarse Aggregate	Aggregate Crushing value	IS 2386 (Part 4): 1963
16.		Aggregate Impact value	IS 2386 (Part 4): 1963
17.		Bulk Density	IS 2386 (Part 3): 1963
18.		Combined Flakiness and Elongation Index	IS 2386 (Part 1): 1963
19.		Elongation Index	IS 2386 (Part 1): 1963
20.		Fineness Modulus	KTRC/BM/SOP-26: 2018
21.		Flakiness Index	IS 2386 (Part 1): 1963
22.		Moisture Content	KTRC/BM/SOP-09: 2018
23.		Size and Grading of aggregate	IS 2386 (Part 1): 1963
24.		Specific Gravity	IS 2386 (Part 3): 1963
25.		Stone Polish value	IS 2386 (Part 4): 1963
26.		Volumetric Expansion Ratio	IS 383 (Annex E): 2016
27.		Water Absorption	IS 2386 (Part 3): 1963
28.	Coarse Aggregate	10 % Fine value	IS 2386 (Part 4): 1963
29.	Fine Aggregate	Accelerated Mortar bar method	IS 2386 (Part 7): 1963
30.	Fine Aggregate	Bulk density	IS 2386 (Part 3): 1963
31.		Bulking of Fine aggregate	IS 2386 (Part 3): 1963

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



113 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
32.		Fineness Modulus	KTRC/BM/SOP-26: 2018
33.		Material finer than 75 micron	IS 2386 (Part 1): 1963
34.		Moisture content	KTRC/BM/SOP/09: 2018
35.		Average Compressive Strength (Mortar making properties)	IS 2386 (Part 6): 1963
36.		Specific Gravity	IS 2386 (Part 3): 1963
37.		Potential alkali reactivity by Mortar Bar Method	IS 2386 (Part 7): 1963
38.		Size and grading of aggregate	IS 2386 (Part 1): 1963
39.		Water absorption	IS 2386 (Part 3): 1963
40.		Volumetric Expansion ratio	IS 383: 2016
41.		Bitumen Binder Content	ASTM D 2172 : 2017
42.	Bituminous material	Ductility	IS 1208: 2023
43.		Flow	ASTM D 1559 : 1989
44.		Marshal Stability	ASTM D 1559: 1989
45.		Penetration at 25 degrees	IS 1203: 2022
46.		Softening Point	IS 1205: 2022
47.		Height	IS 2185 (Part 3): 1984

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



114 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
48.	Autoclaved Cellular (Aerated) Concrete blocks	Length	IS 2185 (Part 3): 1984
49.		Width/Thickness	IS 2185 (Part 3): 1984
50.		Block Density	IS 6441(Part 1): 1972
51.		Compressive Strength	IS 6441(Part 5): 1972
52.		Drying Shrinkage	IS 6441(Part 2): 1972
53.		Finish	IS 2185 (Part 3): 1984
54.		Surface texture	IS 2185 (Part 3): 1984
55.		Thermal Conductivity	IS 3346: 1980
56.		Visual Appearance	IS 2185 (Part 3): 1984
57.		Visual inspection	IS 2185 (Part 3): 1984
58.	Common Burnt Clay Building Bricks	Width	IS 1077: 1992
59.	Pulverized Fuel Ash-Lime Bricks	Width	IS 12894: 2002
60.	Burnt Clay Fly Ash Building Bricks	Width	IS 13757: 1993
61.	Burnt Clay Building Bricks	Compressive Strength	IS 3495 (Part 1) : 2019
62.	Common Burnt Clay Building Bricks	Dimensions of frog	IS 1077: 1992

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



115 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
63.	Pulverized Fuel Ash-Lime Bricks	Dimensions of frog	IS 12894: 2002
64.	Burnt Clay Fly Ash Building Bricks	Dimensions of frog	IS 13757: 1993
65.	Calcium Silicate Bricks	Drying Shrinkage	IS 4139: 1989
66.	Burnt Clay Building Bricks	Efflorescence	IS 3495 (Part 3): 2019
67.	Common Burnt Clay Building Bricks	Height	IS 1077: 1992
68.	Pulverized Fuel Ash-Lime Bricks	Height	IS 12894: 2002
69.	Burnt Clay Fly Ash Building Bricks	Height	IS 13757: 1993
70.	Common Burnt Clay Building Bricks	Length	IS 1077: 1992
71.	Pulverized Fuel Ash-Lime Bricks	Length	IS 12894: 2002
72.	Burnt Clay Fly Ash Building Bricks	Length	IS 13757: 1993
73.	Common Burnt Clay Building Bricks	Visual Appearance	IS 1077: 1992
74.	Pulverized Fuel Ash-Lime Bricks	Visual Appearance	IS 12894: 2002

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



116 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
75.	Burnt Clay Fly Ash Building Bricks	Visual Appearance	IS 13757: 1993
76.	Burnt Clay Building Bricks	Water Absorption	IS 3495 (Part 2) : 2019
77.	Concrete Paving Block	Abrasion Resistance	IS 15658 : 2021
78.		Arries Chamfer (Width)	IS 15658: 2021
79.		Arries Depth	IS 15658: 2021
80.		Aspect ratio (L/T)	IS 15658: 2021
81.		Colour	IS 15658: 2021
82.		Compressive Strength	IS 15658 : 2021
83.		Deviation from Squareness	IS 15658: 2006
84.		Dimension (Length)	IS 15658 : 2021
85.	Concrete Paving Block	Dimension (Thickness)	IS 15658: 2021
86.		Dimension (Width)	IS 15658: 2021
87.		Flexural Strength	IS 15658: 2021
88.		Freeze-Thaw Durability	IS 15658: 2021
89.		Plan area	IS 15658: 2021

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



117 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
90.		Ratio of Wearing area face area & Plan area	IS 15658: 2021
91.		Tensile Splitting Strength	IS 15658: 2021
92.		Texture	IS 15658: 2021
93.		Thickness of wearing layer	IS 15658: 2021
94.		Visual Appearance	IS 15658: 2021
95.		Visual Inspection	IS 15658: 2021
96.		Water Absorption	IS 15658: 2021
97.	Hollow & Solid Concrete Block	Face Shell Thickness	IS 2185 (Part 1): 2005
98.		Face Shell Thickness	IS 2185 (Part 2): 1983
99.		Web Thickness	IS 2185 (Part 1): 2005
100.	Hollow & Solid Concrete Block	Web Thickness	IS 2185 (Part 2): 1983
101.		Width	IS 2185 (Part 2): 1983
102.		Block Density	IS 2185 (Part 1): 2005
103.		Block Density	IS 2185 (Part 2): 1983
104.		Compressive Strength	IS 2185 (Part 2): 1983
105.		Compressive Strength	IS 2185 (Part 1) : 2005
106.		Drying Shrinkage	IS 2185(Part 1) : 2005

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



118 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
107.		Drying Shrinkage	IS 2185(Part 2) : 1983
108.		Length	IS 2185 (Part 1): 2005
109.		Length	IS 2185 (Part 2): 1983
110.		Moisture Movement	IS 2185(Part 1) : 2005
111.		Moisture Movement	IS 2185(Part 2) : 1983
112.		Surface texture	IS 2185 (Part 1): 2005
113.		Surface texture	IS 2185 (Part 2): 1983
114.		Visual Appearance	IS 2185 (Part 1): 2005
115.		Visual Appearance	IS 2185 (Part 1): 2005
116.		Visual Appearance	IS 2185 (Part 2): 1983
117.		Visual Appearance	IS 2185 (Part 2): 1983
118.		Water Absorption	IS 2185 (Part 1) : 2005
119.		Water Absorption	IS 2185 (Part 2): 1983
120.	Hollow & Solid Concrete Block	Width	IS 2185 (Part 1): 2005
121.		Height	IS 2185 (Part 1): 2005
122.		Height	IS 2185 (Part 2): 1982
123.		Finish	IS 2185 (Part 1): 1983

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



119 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
124.		Finish	IS 2185 (Part 2): 1983
125.	Precast Concrete Manhole Cover and Frame	Clear Cover to Reinforcement	IS 12592: 2002
126.		Permanent set (after load test)	IS 12592: 2002
127.		Compatibility of seating of cover & frame	IS 12592: 2002
128.		Cover finish of top surface	IS 12592: 2002
129.		Dimensions of Cover	IS 12592: 2002
130.	Precast Concrete Manhole Cover and Frame	Dimensions of Clear opening	IS 12592: 2002
131.		Dimensions of Frame	IS 12592: 2002
132.		Edge Protection and finishing of frame and cover	IS 12592: 2002
133.		Exposed Surface of MS flat of frame	IS 12592: 2002
134.		Lifting Hooks	IS 12592: 2002
135.		Load test	IS 12592: 2002
136.		Number of Steel Connectors of frame	IS 12592: 2002
137.		Shapes	IS 12592: 2002
138.		Size of MS flat of frame	IS 12592: 2002

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



120 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
139.		Taper	IS 12592: 2002
140.		Visual Appearance	IS 12592: 2002
141.	Preformed Foam Cellular Concrete Blocks	Block Density	IS 2185 (Part 4): 2008
142.		Compressive Strength	IS 2185 (Part 4): 2008
143.		Drying Shrinkage	IS 2185 (Part 4): 2008
144.		Height	IS 2185 (Part 4): 2008
145.		Length	IS 2185 (Part 4): 2008
146.		Moisture movement	IS 2185 (Part 4): 2008
147.		Thermal Conductivity	IS 3346: 1980
148.	Preformed Foam Cellular Concrete Blocks	Visual Appearance	IS 2185 (Part 4): 2008
149.		Water Absorption	IS 2185 (Part 4): 2008
150.		Width	IS 2185 (Part 4): 2008
151.	Building Lime	Compressive strength	IS 6932 (Part 7): 1973
152.		Fineness	IS 6932 (Part 4): 1973
153.		Popping & Pitting	IS 6932 (Part 10): 1973
154.		Residue on Slaking	IS 6932 (Part 3): 1973
155.		Setting time	IS 6932 (Part 11): 1983

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



121 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
156.		Soundness, Le Chaterlier expansion	IS 6932 (Part 9): 1973
157.		Transverse strength	IS 6932 (Part 7): 1973
158.	Building Lime	Volume yield	IS 6932 (Part 6): 1973
159.		Workability bumps	IS 6932 (Part 8): 1973
160.	Cements	Drying Shrinkage	IS 4031 (Part 10): 1988
161.		Fineness by Dry sieving	IS 4031 (Part 1): 1996
162.		Transverse Strength	IS 4031 (Part 8): 1988
163.	Cements/Clinker	Final setting time	IS 4031 (Part 5): 1988
164.		Initial setting time	IS 4031 (Part 5): 1988
165.		Soundness by Autoclave	IS 4031 (Part 3): 1988
166.		Soundness by Le-Chatelier	IS 4031(Part 3): 1988
167.	Cements/Clinker/GGBS	Compressive strength	IS 4031 (Part 6): 1988
168.		Consistency	IS 4031 (Part 4): 1988
169.		Density/Specific Gravity	IS 4031 (Part 11): 1988
170.		Fineness	IS 4031 (Part 2): 1999
171.	Clinker	Granulometric Composition	IS 16353: 2015



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
172.	Ground Granulated Blast Furnace Slag	Slag activity index	IS 16714: 2018
173.	High alumina Refractory Cement	Compressive strength	IS 15895: 2018
174.		Setting Time (Initial & Final)	IS 15895: 2018
175.		Specific surface area	IS 4031 (Part 2): 1999
176.	Pigment	Fineness	IS 4031 (Part 2): 1999
177.	White Portland Cement	Degree of Whiteness	IS 8042: 2015
178.	Concrete	Compressive Strength	IS 516 (Part 1)/Sec 1: 2021
179.		Compressive strength of accelerated cured concrete	IS 9013: 1978
180.		Depth of penetration of water under pressure	IS 516 (Part 2/Sec 1): 2018
181.		Flexural / Transverse Strength	IS 516 (Part 1)/Sec1: 2021
182.		Permeability of Concrete	IS 3085: 1965
183.		Water Absorption	BS 1881-122-: 2011
184.		Compressive strength	IS 516 (Part 4): 2018
185.	Integral Water proofing compound / cement mortar	Compressive strength	IS 4031(Part 6): 1988
186.		Final setting time	IS 4031 (Part 5): 1988

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



123 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
187.	Integral Water proofing compound / cement mortar	Initial setting time	IS 4031(Part 5): 1988
188.		Permeability to water	IS 2645: 2003
189.	Gypsum building plaster	Compressive Strength	IS 2542 (Part 1/Sec. 5): 1978
190.		Dry bulk density	IS 2542 (Part 1/Sec. 12): 1978
191.		Dry set density	IS 2542 (Part 1/Sec. 5): 1978
192.		Expansion on setting	IS 2542 (Part 1/Sec 9): 1978
193.		Mechanical resistance of set neat plaster (Diameter of indentation)	IS 2542 (Part 1/Sec. 7): 1978
194.		Residue on 150 micron IS Sieve	IS 2542 (Part 1/Sec. 8): 1978
195.		Setting Time	IS 2542 (Part 1/Sec. 3): 1978
196.		Soundness	IS 2542 (Part 1/Sec. 6): 1978
197.		Transverse Strength	IS 2542 (Part 1/Sec. 4): 1978
198.	Abrasive Powder	Hardness (0 to 9 Morhs)	KTRC/SOP/18: 2018
199.		Size	IS 1237: 2012
200.	Thermoplastic Road Marking Material	Binder Content	BS 3262 (Part 1): 1989

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



124 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
201.	Thermoplastic Road Marking Material	Free Flow test	MORTH Section 803: 2013/AASHTO M247
202.		Glass bead Content	BS 3262(Part 1): 1989
203.		Grading Constituent	MORTH 5 Revision (Section 800): 2013/ BS 3262(Part 1): 1989
204.		Softening Point	BS 3262(Part 1): 1989
205.		Day light luminance (White & Yellow)	AASHTO M249
206.		Dying time	AASHTO M249 MORTH - 8032.4.1.2 (b)
207.		Skid Resistance	BS 6044
208.		Cracking Resistance	AASHTO T250
209.		Titanium dioxide	IS 411: 2020 Annex. B
210.		Calcium Carbonate and inert filler	ASTM D 4797
211.		Yellowness Index.	AASHTO M249
212.		Glass Beads -Roundness (Microscopic)	BS 6088 - 1981
213.	Thermoplastic Road Marking Material	Glass Bead - Refractive Index.	BS 6088 - 1981

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



125 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
214.	Thermoplastic Road Marking Material	Glass bead gradation	BS 3262 (Part 1) / MORTH Table 800-10
215.		Flash point	ASTM D 92
216.		Specific gravity	ASTM D 792
217.	Pulverized Fuel Ash	Soundness by Autoclave	IS 1727 : 1967
218.	Pulverized Fuel Ash/ Calcined clay	Drying shrinkage	IS 1727: 1967
219.		Fineness by Blaine's air permeability	IS 1727 : 1967
220.		Lime Reactivity	IS 1727 : 1967
221.		Transverse Strength	IS 1727: 1967
222.	Pulverized Fuel Ash/ Calcined clay/Silica Fume	Compressive strength	IS 1727 : 1967
223.		Particles retained on 45µ IS Sieve	IS 1727 : 1967
224.		Specific Gravity/Density	IS 1727 : 1967
225.	Ceramic tile	Co-efficient of Friction- Tiles intended for use on Floors	IS 2386 (Part 4) : 1963
226.		Frost Resistance	IS 13630 (Part 10) : 2019
227.		Marking & Designation	IS 15622: 2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



126 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
228.	Ceramic Tile	Moisture expansion	IS 13630 (Part 3): 2019
229.		Spacer Lugs	IS 13630 (Part 1): 2019
230.		Straightness of sides	IS 13630 (Part 1): 2019
231.		Surface Flatness	IS 13630 (Part 1): 2019
232.		The deviation in percent of the average size of each tile (2 or 4 sides) from the average of 10 test specimens (20 or 40 sides)	IS 13630 (Part 1): 2019
233.		The deviation in percent of the average size of each tile (2 or 4 sides) from the works size	IS 13630 (Part 1): 2019
234.		Width	IS 13630 (Part 1): 2019
235.		Width/Deviation	IS 13630 (Part 1): 2019
236.		Length	IS 13630 (Part 1): 2019
237.		Breaking Strength	IS 13630 (Part 6): 2019
238.		Bulk density	IS 13630 (Part 2): 2019
239.		Centre Curvature	IS 13630 (Part 1): 2019
240.	Ceramic Tiles	Chemical Resistance	IS 13630 (Part 7& 8): 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



127 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
241.		Co efficient of Linear Thermal Expansion	IS 13630 (Part 4): 2019
242.		Crazing Resistance	IS 13630 (Part 9): 2019
243.		Edge Curvature	IS 13630 (Part 1): 2019
244.		Impact resistance by coefficient of restitution	IS 13630 (Part 14): 2019
245.		Length/Deviation	IS 13630 (Part 1): 2019
246.		Modulus of Rupture	IS 13630 (Part 6): 2019
247.		Rectangularity	IS 13630 (Part 1): 2019
248.		Resistance to Deep abrasion	IS 13630 (Part 12): 2019
249.		Resistance to Surface abrasion	IS 13630 (Part 11): 2019
250.		Resistance to Thermal Shock	IS 13630 (Part 5): 2019
251.		Scratch Hardness of Surface According to MOHs (1 to10)	IS 13630 (Part 13): 2019
252.		Surface Quality	IS 13630 (Part 1): 2019
253.		Thickness	IS 13630 (Part 1): 2019
254.	Ceramic Tiles	Thickness/Deviation	IS 13630 (Part 1): 2019
255.		Warpage	IS 13630 (Part 1): 2019
256.		Water Absorption	IS 13630 (Part 2): 2019

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



128 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
257.		Finish	IS 13801: 2013
258.		Length	IS 10646: 1991
259.		Length	IS 1237: 2012
260.		Length	IS 13801: 2013
261.		Visual Appearance	IS 1237: 2012
262.		Depth of groove	IS 13801: 2013
263.		Finish	IS 1237: 2012
264.		Flatness	IS 1237: 2012
265.		Flatness	IS 13801: 2013
266.		Flexural Strength	IS 10646: 1991
267.		Length	IS 8968: 1978
268.		Perpendicularity	IS 1237: 2012
269.	Concrete Tile	Perpendicularity	IS 13801: 2013
270.		Resistance to wear	IS 1237: 2012
271.		Resistance to wear	IS 13801: 2013
272.		Straightness	IS 1237: 2012
273.		Straightness	IS 13801: 2013

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



129 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
274.		Thickness of wearing layer	IS 1237: 2012
275.		Thickness of wearing layer	IS 13801: 2013
276.		Visual Appearance	IS 10646: 1991
277.		Visual Appearance	IS 13801: 2013
278.		Visual Appearance	IS 8968: 1978
279.		Water Absorption	IS 1237: 2012
280.		Water Absorption	IS 13801: 2013
281.		Water Absorption	IS 3597: 1998
282.		Wet Transverse Strength	IS 1237: 2012
283.		Wet Transverse Strength	IS 13801: 2013
284.	Concrete Tiles	Depth of groove	IS 13801: 2013
285.		Thickness	IS 10646: 1991
286.		Thickness	IS 1237: 2012
287.		Thickness	IS 13801: 2013
288.		Thickness	IS 8968: 1978
289.		Width	IS 10646: 1991
290.		Width	IS 1237: 2012

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



130 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
291.		Width	IS 13801: 2013
292.	Farm drainage concrete tile	Internal diameter	IS 8968: 1978
293.	Marble (Block, Slabs and Tiles)	Width	IS 1130: 1969
294.		Length	IS 1130: 1969
295.		Thickness	IS 1130: 1969
296.	Unglazed ceramic vitreous acid resisting tile	Centre Curvature	IS 4457: 2007
297.		Edge Curvature	IS 4457: 2007
298.		Rectangularity	IS 4457: 2007
299.	Unglazed ceramic vitreous acid resisting tile	Warpage	IS 4457: 2007
300.		Width	IS 4457: 2007
301.		Width/Deviation	IS 4457: 2007
302.		Length	IS 4457: 2007
303.		Length/Deviation	IS 4457: 2007
304.		Thickness/Deviation	IS 4457: 2007
305.		Resistance to Deep abrasion	IS 4457: 2007
306.		Breaking Strength	IS 4457: 2007
307.		Modulus of Rupture	IS 4457: 2007

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



131 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
308.		Straightness of sides	IS 4457: 2007
309.		Surface Flatness	IS 4457: 2007
310.		Surface quality	IS 4457: 2007
311.		The deviation in percent of the average size of each tile (2 or 4 sides) from the average of 10 test specimens (20 or 40 sides)	IS 4457: 2007
312.	Unglazed Ceramic Vitreous Acid Resisting Tiles	The deviation in percent of the average size of each tile (2 or 4 sides) from the works size	IS 4457: 2007
313.		Thickness	IS 4457: 2007
314.		Water Absorption	IS 4457: 2007
315.	Autoclaved Reinforced Cellular Concrete Wall slabs	Height	IS 6072: 2023
316.		Width	IS 6072: 2023
317.		Thickness	IS 6072: 2023
318.		Flatness	IS 6072: 2023
319.		Edge straightness	IS 6072: 2023
320.		Squareness of angle between adjacent faces	IS 6072: 2023

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



132 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
321.		Density	IS 6072: 2023
322.		Drying Shrinkage	IS 6072: 2023
323.		Compressive Strength	IS 6072: 2023
324.		Thermal Conductivity	IS 6072: 2023
325.	Autoclaved Reinforced Cellular Concrete Wall slabs	Residual Water Content	IS 6072: 2023
326.		Fire Resistance	IS 6072: 2023
327.		Deflection and Ultimate Load Test	IS 6072: 2023
328.	Cross band	Cross band	IS 303: 2024 IS 710: 2024 IS 2202 (Part 1) :2023 IS 4990: 2024 IS 1659: 2004 IS 1328: 1996
329.	Plywood general purpose	Classification by appearance	IS 303: 2024 (Cl. 5)
330.		Quality Requirements of surface as per table 1	IS 303: 2024
331.		Thickness of veneers	IS 303: 2024
332.		Joints in veneers	IS 303: 2024 (Cl. 7.2.2)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



133 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
333.		Grain Direction	IS 303: 2024 (Cl.7.2.3)
334.		Scarf Joints	IS 303: 2024 (Cl.7.2.4)
335.		Permissible Defects	IS 303: 2024 (Cl.7.2.5)
336.		Dimensions (Length & Width)	IS 303: 2024 (Cl.8.1)
337.	Plywood general purpose	Thickness	IS 303: 2024 (Cl.8.2)
338.		Squareness & Edge straightness	IS 303: 2024 (Annex. C)
339.		Workmanship and Finish	IS 303: 2024 (Cl.9)
340.	Plywood general purpose/ Marine plywood/Preservative treated plywood/ Plywood for Concrete Shuttering Works	Glue adhesion (Water Resistance)	IS 1734 (Part 6): 1983
341.		Glue adhesion (Adhesion of plies)	IS 1734 (Part 5): 1983
342.		Glue Shear Strength	IS 1734 (Part 4): 1983
343.	Plywood general purpose/ Marine Plywood/ Preservative treated plywood/ Plywood for Concrete Shuttering Works/ Plywood for Concrete Shuttering Works	Mycological Test	IS 1734 (Part 7): 1983
344.		Moisture Content	IS 1734 (Part 1): 1983

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



134 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
345.	Plywood general purpose/Marine plywood / Preservative treated	Static Bending Strength Modulus of Elasticity (MOE)	IS 1734 (Part 11): 1983
346.	plywood/Veneered decorative plywood/ Plywood for Concrete Shuttering Works	Static Bending Strength Modulus of Rupture (MOR)	IS 1734 (Part 11): 1983
347.	Plywood general purpose/marine plywood/ Plywood for Concrete Shuttering Works/ Wood products prelaminated particle boards of wood and other Lignocellulosic materials (medium density) for general purposes/ Prelaminated particle boards from Wood and other lignocellulosic Material — specification/ Medium density fibre boards for general purpose/ Prelaminated medium density fibre board-Specification	Formaldehyde content test	IS 13745: 2020
348.	Marine Plywood	Defects in veneers	IS 710: 2024 (Cl. 5.1.1)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



135 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
349.		Glueing	IS 710: 2024 (Cl. 5.2.1)
350.		Thickness of veneers	IS 710: 2024 (Cl. 5.2.2)
351.		Joint in Veneers	IS 710: 2024 (Cl. 5.2.3, 5.2.)
352.		Grain Direction	IS 710: 2024 (Cl. 5.2.4)
353.	Marine Plywood	Moisture Content	IS 287 : 1993
354.		Dimensions (Length & Width)	IS 710 : 2024 (Cl.8.1)
355.		Thickness	IS 710 : 2024 (Cl.8.2)
356.		Squareness & Edge straightness	IS 710 : 2024 (Annex. C)
357.		Workmanship and Finish	IS 710 : 2024 (Cl. 7)
358.		Water Resistance	IS 710 : 2024 (Annex. D)
359.	Marine Plywood/ Plywood for Concrete Shuttering Works	Tensile Strength	IS 1734 (Part 9) : 1983
360.		Wet Bending Strength Modulus of Elasticity (MOE)	IS 1734 (Part 11) : 1983
361.		Wet Bending Strength Modulus of Rupture (MOR)	IS 1734 (Part 11) : 1983
362.	Marine Plywood/Preservative treated plywood/ Plywood for Concrete Shuttering Works	Retention of Preservative	IS 2753 (Part 1) : 1991 IS 2753 (Part 2) : 2014
363.	Preservative treated plywood	Workmanship and Finish	IS 5539 : 1969

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



136 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
364.	Plywood general purpose	Dimensions (Length & Width)	IS 5539 : 1969 (Cl.8)
365.		Thickness	IS 5539 : 1969 (Cl.8)
366.	Plywood general purpose	Squareness & Edge straightness	IS 5539 : 1969 (Cl.8)
367.	Veneered decorative plywood	Decorative veneers	IS 1328 : 1996 (Cl.6)
368.		Requirements	IS 1328 : 1996 (Cl.7)
369.		Dimensions (Length & Width)	IS 1328 : 1996
370.		Thickness	IS 1328 : 1996
371.		Squareness & Edge straightness	IS 1328 : 1996 (Annex. C)
372.		Finish	IS 1328 : 1996
373.		Water Resistance test	IS 1328 : 1996 (Cl. 11.1.2)
374.		Dimensions (Length & Width)	IS 1659 : 2004 (Cl. 7)
375.	Block Board	Thickness	IS 1659 : 2004 (Annex. E)
376.		Squareness & Edge straightness	IS 1659 : 2004 (Annex. D)
377.		Defects	IS 1659 : 2004 (Cl.8.1.3)
378.		Dimensional Changes Caused by Humidity	IS 1659 : 2004 (Annex. F)
379.		Resistance to Water	IS 1659 : 2004 (Annex. G)
380.		Adhesion of plies	IS 1659 : 2004 (Annex. H)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



137 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
381.	Block Board	Mycological test	IS 1659 : 2004 (Annex. J)
382.		Static Bending Strength Modulus of Elasticity (MOE)	IS 1659 : 2004 (Annex. K)
383.		Static Bending Strength Modulus of Rupture (MOR)	IS 1659 : 2004 (Annex. K)
384.		Spot test	IS 1659 : 2004 (Annex. L)
385.	Plywood for Concrete Shuttering Works	Manufacture	IS 4990 : 2024 (Cl. 6)
386.		Dimensions (Length & Width)	IS 4990 : 2024 (Annex. C)
387.		Thickness	IS 4990 : 2024 (Annex. C)
388.		Squareness & Edge straightness	IS 4990 : 2024 (Annex. C)
389.		Workmanship and Finish	IS 4990 : 2024 (Cl.8)
390.		Alternate method for Water Resistance	IS 4990 : 2024 (Annex. D)
391.		Polymer coating test	IS 4990 : 2024 (Cl.10.6)
392.	Wood products prelaminate particle boards of wood and other Lignocellulosic materials (medium Density) for general purposes	Finish	IS 3087 :2005
393.		Dimensions (length and width)	IS 2380 (Part 2) : 1977
394.		Thickness	IS 2380 (Part 2) : 1977
395.		Squareness & Edge straightness	IS 2380 (Part 2) : 1977
396.		Density	IS 2380 (Part 3) : 1977

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



138 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
397.	Wood products prelaminated particle boards of wood and other Lignocellulosic materials (medium Density) for general purposes/ Prelaminated particle boards from Wood and other lignocellulosic Material — specification/ Medium density fibre boards for general purpose/ Prelaminated medium density fibre board — Specification	Moisture content	IS 2380 (Part 3) : 1977
398.		Water absorption	IS 2380 (Part 16) : 1977
399.		Linear Expansion Swelling in water/ Swelling due to surface absorption	IS 2380 (Part 17) : 1977
400.		Workability	IS 3087 : 2005 (cl. 9)
401.		Static Bending Strength Modulus of Elasticity (MOE)	IS 2380 (Part 4) : 1977
402.		Static Bending Strength Modulus of Rupture (MOR)	IS 2380 (Part 4) : 1977
403.		Tensile Strength Perpendicular to surface	IS 2380 (Part 5) : 1977
404.		Screw Withdrawn strength	IS 2380 (Part 14) : 1977
405.		Cyclic Test/ Accelerated water Resistance	IS 2380 (Part 4) : 1977 & IS 3087 : 2005
406.	Medium density fibre boards for general purpose	Manufacture	IS 12406 : 2021 (Cl. 6)
407.		Finish	IS 12406 : 2021 (Cl. 7)
408.	Medium density fibre boards for general purpose/ Prelaminated medium density fibre board- Specification	Dimensions (length and width)	IS 2380 (Part 2): 1977
409.		Thickness	IS 2380 (Part 2): 1977

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



139 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
410.	Medium density fibre boards for general purpose	Squareness & Edge straightness	IS 12406: 2021 (Annex. A)
411.	Medium density fibre boards for general purpose/ Prelaminated medium density fibre board-Specification	Internal Bond strength	IS 2380 (Part 5): 1977
412.	Prelaminated particle boards from wood and other lignocellulosic Material — specification	Manufacture	IS 12823 : 2015 (Cl. 6)
413.		Finish	IS 12823 : 2015 (Cl. 7)
414.		Dimensions (length and width)	IS 12823 : 2015 (Cl. 8)
415.		Thickness	IS 12823 : 2015 (Cl. 8)
416.		Squareness & Edge straightness	IS 12823 : 2015 (Annex. B)
417.	Material — specification Prelaminated Medium Density Fibre Board — Specification	Abrasion resistance	IS 12823 : 2015 (Annex. C)
418.	Prelaminated particle boards from wood and other lignocellulosic Material- specification Prelaminated Medium Density Fibre Board-Specification	Resistance to Steam	IS 12823 : 2015 (Annex. D)
419.		Crack Resistance	IS 12823 : 2015 (Annex. E)
420.		Resistance to Cigarette Burn	IS 12823 : 2015 (Annex. F)
421.		Resistance to Stain	IS 12823 : 2015 (Annex. J)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



140 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
422.	Prelaminated medium density fibre board-Specification	Manufacture	IS 14587 : 2023 (Cl. 7)
423.		Finish	IS 14587 : 2023 (Cl. 6)
424.		Squareness & Edge straightness	IS 14587 : 2023 (Cl. 6)
425.	Timber/ Wooden flush door shutters	Moisture Content	IS 1708 (Part 1) : 1986
426.		Visual Inspection	IS 2202 (Part 1): 2023
427.	Wooden flush door shutters	Construction	IS 2202 (Part 1): 2023 (Cl 7.1 & Fig 2)
428.		Construction particle board or medium density fibre (MDF) board core (see fig. 3)	IS 2202 (Part 1): 2023 (Cl 7.2 & Fig 3)
429.		Stiles and Rails	IS 2202 (Part 1) : 2023 (Cl. 7.3)
430.		Levelling	IS 2202 (Part 1) : 2023 (Cl. 7.4)
431.		Face Panel	IS 2202 (Part 1) : 2023 (Cl. 7.5)
432.	Wooden flush door shutters	Lipping	IS 2202 (Part 1): 2023 (Cl. 7.6)
433.		Rebating	IS 2202 (Part 1): 2023 (Cl. 7.7)
434.		Opening for Glazing	IS 2202 (Part 1): 2023 (Cl. 7.8)
435.		Venetian	IS 2202 (Part 1): 2023 (Cl. 7.9)
436.		Fittings	IS 2202 (Part 1): 2023 (Cl. 8)
437.		Workmanship and Finish	IS 2202 (Part 1): 2023 (Cl. 9)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



141 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
438.		Dimensions (Width and Length)	IS 4020 (Part 2): 1998
439.		Squareness	IS 4020 (Part 2): 1998
440.		General Flatness Test	IS 4020 (Part 3): 1998
441.		Local Planeness Test	IS 4020 (Part 4): 1998
442.		Impact indentation Test	IS 4020 (Part 5): 1998
443.		Flexural Test	IS 4020 (Part 6): 1998
444.		Edge loading test	IS 4020 (Part 7): 1998
445.		Shock Resistance	IS 4020 (Part 8): 1998
446.		Buckling Resistance	IS 4020 (Part 9): 1998
447.		Slamming test	IS 4020 (Part 10): 1998
448.	Wooden flush door shutters	Misuse Test	IS 4020 (Part 11): 1998
449.		Varying humidity test	IS 4020 (Part 12): 1998
450.		End immersion Test	IS 4020 (Part 13): 1998
451.		Knife Test	IS 4020 (Part 14): 1998
452.		Glue adhesion test	IS 4020 (Part 15): 1998
453.		Screw Withdrawal test	IS 4020 (Part 16): 1998
454.		Workmanship and finish	IS 2202 (Part 2): 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



142 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
455.		Cellular Core	IS 2191 (Part 1): 2022 (Fig 2)
456.		Hollow Core	IS 2191 (Part 1): 2022 (Fig 3)
457.		Tubular Core	IS 2191 (Part 1): 2022 (Fig 4)
458.		Stiles & Rails	IS 2191 (Part 1): 2022 (Cl. 7.4)
459.		Levelling	IS 2191 (Part 1): 2022 (Cl. 7.5)
460.		Face Panel	IS 2191 (Part 1): 2022 (Cl. 7.6)
461.		Lipping	IS 2191 (Part 1): 2022 (Cl. 7.7)
462.	Wooden flush door shutters	Rabating	IS 2191 (Part 1): 2022 (Cl. 7.8)
463.		Opening for Glazing	IS 2191 (Part 1): 2022 (Cl. 7.9)
464.		Venetian	IS 2191 (Part 1): 2022 (Cl. 7.10)
465.		Fittings	IS 2191 (Part 1): 2022 (Cl. 8)
466.		Workmanship and Finish	IS 2191 (Part 1): 2022 (Cl. 9) & IS 2191 (Part 2): 2022 (Cl. 9)
467.	Synthetic Resin adhesive for plywood	Cyclic Test	IS 848: 2006 (Cl. 7.3)
468.		Keeping quality of adhesive	IS 848: 2006 (Cl. 5)
469.		Acidity and Alkalinity (pH)	IS 848: 2006 (Annex. B)



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
1.	Cohesionless Soil	Density Index/Relative Density	IS 2720 (Part 14): 1983
2.	Soil	CBR Value	IS 2720 (Part 16): 1987
3.	Soil	Consolidation (CC)	IS 2720(Part 15): 1965
4.	Soil	Consolidation (CV)	IS 2720 (Part 15): 1965
5.	Soil	Direct Shear Test	IS 2720 (Part 13): 1986
6.	Soil	Direct Shear Test	IS 2720 (Part 13): 1986
7.	Soil	Dynamic cone penetration test	IS 4968 (Part 2): 1976
8.	Soil	Free Swell Index	IS 2720(Part 40): 1977
9.	Soil	Grain Size Analysis	IS 2720 (Part 4): 1985
10.	Soil	Heavy compaction (MDD)	IS 2720 (Part 8): 1983
11.	Soil	Heavy compaction (OMC)	IS 2720(Part 8): 1983
12.	Soil	Light compaction (MDD)	IS 2720 (Part 7): 1980
13.	Soil	Light compaction (OMC)	IS 2720 (Part 7): 1980
14.	Soil	Liquid Limit	IS 2720(Part 5): 1985
15.	Soil	Moisture content	IS 2720 (Part 2): 1973
16.	Soil	Permeability Test	IS 2720 (Part 17) : 1986
17.	Soil	Plastic Limit	IS 2720 (Part 5) : 1985

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



144 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
18.	Soil	Shrinkage Limit	IS 2720 (Part 6) : 1972
19.	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)) : 1980
20.	Soil	Standard penetration test	IS 2131: 1981
21.	Soil	Swelling Pressure Test	IS 2720 (Part 41) : 1977
22.	Soil	Triaxial Shear Test	IS 2720 (Part 12) : 1981
23.	Soil	Triaxial Shear Test	IS 2720 (Part 12) : 1981
24.	Soil	UCS of soil	IS 2720 (Part 10) : 1991
25.	Soil Stabilizing Material	Coefficient of consolidation (Cv)	IS 2720 (Part 15): 1965
26.		Coefficient of uniformity	IS 1489: 1970
27.		Compression index (CC)	IS 2720 (Part 15): 1965
28.		Direct Shear test (Angle of internal friction)	IS 2720 (Part 13): 1986
29.		Direct Shear test (Cohesion)	IS 2720 (Part 13): 1986
30.		Heavy Compaction (MDD)	IS 2720 (Part 8): 1983
31.		Heavy Compaction (OMC)	IS 2720 (Part 8): 1983
32.		Light Compaction (MDD)	IS 2720 (Part 7): 1980
33.		Light Compaction (OMC)	IS 2720 (Part 7): 1980

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



145 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
34.	Soil	Dry density of soil by core cutter method	IS 2720 (Part 29): 1975
35.		Dry density of soil by Sand Replacement Method	IS 2720 (Part 28): 1974
36.		Field CBR	IS 2720 (Part 31): 1990
37.		Modulus of subgrade reaction (K Value)	IS 9214: 1979
38.		Moisture content of soil by core cutter method (Rapid Moisture meter) (Calcium carbide)	IS 2720 (Part 29): 1975
39.		Moisture content of soil by Sand Replacement Method (Rapid Moisture Meter) (Calcium carbide)	IS 2720 (Part 28): 1974
40.		Plate Load Test	IS 1888: 1982
41.	Natural Building Stones	Compressive strength	IS 1121 (Part 1): 2013
42.		Dry Density	IS 13030: 1991
43.		Porosity	IS 1124 : 1974
44.		Specific Gravity/Density	IS 1124: 1974
45.		Transverse Strength	IS 1121(Part 2) : 2013
46.		True Specific Gravity/Density	IS 1122: 1974

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



146 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
47.		Water Absorption	IS 1124: 1974
48.		Water content	IS 13030: 1991
49.	Rocks	Point Load Strength	IS 8764: 1998
50.		Unconfined Compressive Strength Test	IS 9143: 1979
51.	Bentonite	Density	IS 6186: 1986
52.		Fineness (Dry)	IS 6186: 1986
53.		Fineness (Wet)	IS : 6186: 1986
54.		Fineness Dry & Wet	IS 6186: 1986
55.		Free Swell	IS 6186: 1986
56.		Liquid Limit	IS 2720(Part 5): 1985
57.		Moisture % by mass	IS 6186: 1996
58.	Bentonite	Plastic Limit	IS 2720(Part 5) : 1985
59.		Sand Content	IS 6186: 1986
60.		Sand content % by mass	IS 6186: 1986
61.		Swelling power	IS 6186: 1986

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



147 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
1.	Barbed wire	Breaking Load of Complete Barbed Wire	IS 1608 (Part 1): 2022
2.		Number of lays between 2 barbs	IS 278/ KTRC-MECH-SOP-08 Dated 22.03.2021: 2009
3.	Carbon Steel Steel Cast Billet Ingot, Billets, Blooms & Slabs	Bend	KTRC-MECH-SOP-03: 2018
4.		Camber	KTRC-MECH-SOP-03: 2018
5.	Cold Reduced Carbon Steel Sheet and Strip	Bake Hardening	Annex-B of IS 513 (Part 1): 2016
6.		Tensile Strain Hardening	IS 15756 : 2022
7.	Cold Reduced Carbon Steel Sheet, Strip and Plate	Plastic Strain Ratio	IS 11999 : 2022
8.	Cold Rolled Steel Sheet Product	Camber	IS 16162: 2012
9.		Flatness	IS 16160: 2005
10.		Out of Square	IS 16162: 2012
11.	Continuously Pre-Painted Galvanised Steel Sheet & Coils	Color Test	IS 14246 : 2024
12.		Cross Hatch Test	IS 14246 : 2024
13.		Impact Test	IS 14246: 2024
14.		Number of Corrugation	IS 277/ KTRC-MECH-SOP-08 Dated 22.03.2021: 2018



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
15.	Continuously Pre Painted Galvanised Steel Sheet & Coils	Pencil Hardness Test	IS 14246: 2024
16.	Continuously Pre Painted Galvanised Steel Sheet & Coils/Aluminium Zinc Alloy Coated Sheet	Gloss Test	IS 101 (Part 4/Sec 4): 2020
17.	Continuously Pre Painted Galvanised Steel Sheet & Coils/Coated Sheet	Mass	KTRC-MECH-SOP-01: 2018
18.	Epoxy Coated Reinforcing Bar	Adhesion of Coating	IS 13620: 1993
19.		Impact Test	IS 13620: 1993
20.	Ferrous & Non-Ferrous Materials, Others	0.2% Proof Stress	IS 1608 (Part 1): 2022
21.		Bend Test (Strip)	IS 3601: 2006
22.		Tensile Strength	IS 1608 (Part 1): 2022
23.		Yield Point	IS 1608 (Part 1) : 2022
24.	Ferrous materials, alloys & products (Angle, Hollow Steel Sections, Channel, I Beam, Structural Steel)	Angle/ Out of Squareness/ Slope	KTRC-MECH-SOP-02: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



149 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
25.	Ferrous materials, alloys & products	% Elongation	IS 1608 (Part 1): 2022
26.		% Reduction in Area	IS 1608 (Part 1) : 2022
27.		0.2 % Proof Stress	IS 1608 (Part 1): 2022
28.		Bend Test	IS 1599: 2023
29.		Brinell Hardness HBW 10/1000	IS 1500 (Part 1) : 2020
30.		Brinell Hardness HBW 5.0/250	IS 1500 (Part 1): 2020
31.		Brinell Hardness HBW 5/750	IS 1500 (Part 1) : 2020
32.		Brinell Hardness HBW 10/3000	ASTM A 370: 2022
33.		Brinell Hardness HBW 2.5/187.5	ASTM A 370: 2022
34.		Brinell Hardness HBW 2.5/187.5	IS 1500 (Part 1): 2019
35.		Charpy Impact test ambient to - 30 °C	IS 1757 (Part 1) : 2020
36.		Cupping test	IS 10175 : 2018
37.		Density	KTRC-MECH-SOP-10: 2021
38.		Depth	KTRC-MECH-SOP-02: 2018
39.		Diagonal Difference	KTRC-MECH-SOP-02: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



150 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
40.	Ferrous materials, alloys & products	Diameter	KTRC-MECH-SOP-02: 2018
41.		Difference in 3 Hexagon Size	KTRC-MECH-SOP-02: 2018
42.		Flatness	KTRC-MECH-SOP-04: 2018
43.		Flatness of Web	KTRC-MECH-SOP-04: 2018
44.		Height	KTRC-MECH-SOP-02: 2018
45.		Off Centre of Web	KTRC-MECH-SOP-02: 2018
46.		Out of Parallel	KTRC-MECH-SOP-05: 2018
47.		Out of Round/Ovality/Out of Shape	KTRC-MECH-SOP-02: 2018
48.		Radius	KTRC-MECH-SOP-02: 2018
49.		Rockwell Hardness HRBW	IS 1586 (Part 1): 2018
50.		Rockwell Hardness HRC	IS 1586 (Part 1) : 2018
51.		Rockwell Hardness HR30N	IS 1586 (Part 1): 2018
52.		Rockwell Hardness HR30TW	IS 1586 (Part 1): 2018
53.		Rockwell Hardness HRA	IS 1586 (Part 1): 2018
54.		Sectional Area	KTRC-MECH-SOP-02: 2018
55.		Size & Shape	KTRC-MECH-SOP-02: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



151 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
56.	Ferrous materials, alloys & products	Straightness	KTRC-MECH-SOP-04: 2018
57.		Surface Roughness/Surface Finish	IS 3073: 1967
58.		Ultimate Load/Maximum Load	KTRC-MECH-SOP-06: 2021
59.		Ultimate Load/Maximum Load/Breaking Strength of strand	IS 1608 (Part 1): 2022
60.		Vickers Hardness HV10	IS 1501 (Part 1) : 2020
61.		Vickers Hardness HV20	IS 1501 (Part 1) : 2020
62.		Vickers Hardness HV30	IS 1501 (Part 1): 2020
63.		Vickers Hardness HV5	IS 1501 (Part 1): 2020
64.		Vickers Hardness HV50	IS 1501 (Part 1): 2020
65.		Freedom from Defects, Workmanship, Manufacture, Finishing, Visual Inspection & General	KTRC-MECH-SOP-08: 2021
66.		Width	KTRC-MECH-SOP-02: 2018
67.		Yield Strength	IS 1608 (Part 1) : 2022
68.		Yield Stress	IS 1608 (Part 1) : 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



152 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
69.		Die Penetration test (Liquid penetrant flaw detection)	IS 3658 : 1999
70.		Young's Modulus or Modulus of Rigidity	IS 1608 (Part 1): 2022
71.		Charpy Impact test	IS 1499 : 1977
72.	Ferrous materials, alloys & products (Angle, Structural Steel)	Leg Length Difference	KTRC-MECH-SOP-02: 2018
73.	Ferrous materials , alloys & products	Micrographic determination or estimation of grain size.	IS 4748 : 2021/ISO 643 : 2024/ASTM E112 : 2024
74.	Ferrous materials , alloys & products (Flat, Plate, Sheet, Strip, Coil, Angle, Channel, I Beam, Steel Bar, Round Bar, Square Bar, Hollow Pipe, Hollow Section, Wire, Sections, W Beam, Post, Spacer, Structural Steels, Forgings, Structural Steel, Wire Rod, Skelp, Structural Weathered Resistant Steel)	Nominal Mass/ Weight Per Meter/ Mass	KTRC-MECH-SOP-01: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



153 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
75.	Ferrous materials, alloys & products (Flat, Plate, Sheet, Strip, Coil, Angle, Channel, I Beam, Structural Steel)	Out of Square	KTRC-MECH-SOP-05: 2018
76.	Flat, Plate, Sheet, Coil, Strip, Angle, Channel, I Beam, Hollow Pipe, Hollow Section, Forgings, Structural Steel, Skelp, Structural Weathered Resistant Steel	Thickness	KTRC-MECH-SOP-02: 2018
77.	Flat, Plate, Sheet, Strip, Coil, Angle, Channel, I Beam, Steel Bar, Round Bar, Square Bar, Hollow Pipe, Hollow Section, Wire, Forgings, Structural Steel, Wire Rod, Skelp, Structural Weathered Resistant Steel	Length	KTRC-MECH-SOP-02: 2018
78.	Flat, Plate, Sheet, Strip, Coil, Angle, Channel, I Beam, Structural Steel	Camber	KTRC-MECH-SOP-03: 2018
79.	Fusion welded joints and Weld metal	Face Bend	ASME Section IX: 2023
80.		Root Bend	ASME Section IX: 2023

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



154 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
81.		Side Bend	ASME Section IX: 2023
82.		Face Bend	IS 3600 (Part 5): 2018
83.	Fusion welded joints and Weld metal in Steel	Root Bend	IS 3600 (Part 5): 2018
84.		Side bend	IS 3600 Part 5: 2018
85.		Side Bend	IS 3600 (Part 5): 2018
86.	Galvanized Steel Sheets and Coils	Bend Test	IS 14246 : 2024
87.	Galvanized Steel Strips and Sheets	Bend Test	IS 277: 2018
88.	High Strength Deformed Stainless Steel Bars and Wires	Gross Cross-sectional Area	IS 16651: 2017
89.		Mean Projected Area of Ribs Per Unit Length	IS 16651: 2017
90.		Mean Projected Area of Transverse Ribs	IS 16651 : 2017
91.		Nominal Mass	IS 16651: 2017
92.		Re-bend Test	IS 16651 : 2017
93.		The Ribs Contributing the Projected Area (Longitudinal Ribs/Transverse Ribs)	IS 16651/ KTRC-MECH-SOP-08 Dated 22.03.2021: 2017
94.		TS/YS Ratio	IS 16651 : 2017

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



155 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
95.		Visual Inspection/Surface Characteristics	IS 16651 / KTRC-MECH-SOP-08 Dated 22.03.2021: 2017
96.	High Strength Deformed Steel Bars and Wires	Gross Cross-sectional Area	IS 1786: 2008
97.		Mean Projected Area of Ribs Per Unit Length	IS 1786: 2008
98.		Mean Projected Area of Transverse Ribs	IS 1786 : 2008
99.		Nominal Mass/ Weight Per Meter/ Mass	IS 1786: 2008
100.		Re-bend Test	IS 1786 : 2008
101.		The Ribs Contributing the Projected Area (Longitudinal Ribs/Transverse Ribs)	IS 1786 / KTRC-MECH-SOP-08 Dated 22.03.2021: 2008
102.		TS/YS Ratio	IS 1786 : 2008
103.		Visual Inspection/Surface Characteristics	IS 1786/ KTRC-MECH-SOP-08 Dated 22.03.2021: 2008
104.	High Strength Deformed Steel Bars and Wires/High Strength Deformed Stainless Steel Bars and Wires	Maximum Extension	IS 1608 (Part 1): 2022
105.	High Strength Deformed Steel Bars and Wires/High Strength	Nominal Mass/ Weight Per Meter/ Mass	KTRC-MECH-SOP-01: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



156 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
	Deformed Stainless Steel Bars and Wires		
106.	High Strength Deformed Steel Bars and Wires/High Strength Deformed Stainless Steel Bars and Wires	Total Elongation at Maximum Force	IS 1608 (Part 1): 2022
107.	High Strength Deformed Steel Bars and Wires/High Strength Deformed Stainless Steel Bars and Wires/Epoxy Coated Bar	Pull Out Test	IS 2770 (Part 1) : 1967
108.	Hollow Steel Sections	Area of Cross Section	IS 4923: 2017
109.		Concavity	IS 4923: 2017
110.		Convexity	IS 4923: 2017
111.		Elastic Modulus	IS 4923: 2017
112.		Moment of Inertia	IS 4923: 2017
113.		Plastic Modulus	IS 4923: 2017
114.		Radius of Gyration	IS 4923: 2017
115.		Twist	IS 4923: 2017
116.		Camber	IS 16163: 2012

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



157 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
117.	Hot Dipped Coated Steel Products	Flatness	IS 16163: 2012
118.		Out of Square	IS 16163: 2012
119.	Hot rolled Carbon Steel Sheet	Strainage Embrittlement	IS 9485: 1980
120.	Hot Rolled Carbon Steel Strip for Cold Rolling Purposes	Crown	IS 11513: 2017
121.		Difference in thickness (For Slit Strip)	IS 11513: 2017
122.	Hot Rolled Steel Plate Sheet and Strip	Cupping Test	IS 6240: 2008
123.		Strainage Embrittlement	IS 6240 : 2008
124.	Hot Rolled Steel Sheet Product	Camber	IS 16160: 2005
125.		Flatness	IS 16162: 2012
126.		Out of Square	IS 16160: 2005
127.	Metallic Materials – Sheet & Strip	Reverse Bend	IS 1403 (Part 1): 1993
128.		Hole Expansion Ratio	IS 17414: 2020
129.	Metallic Materials-Wire	Torsion Test	IS 1717: 2018
130.		Wrapping Test	IS 1755 : 2018
131.		Reverse Bend	IS 1716: 2023

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



158 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
132.	Mild Steel Pipe Fittings	Hydrostatic Test	IS 1239 (Part 2): 2011
133.	Mild Steel Wire	Bend	IS 280: 2006
134.	Non-Ferrous-Metals, alloys & Products	Shape	KTRC-MECH-SOP-02: 2018
135.	Plain Hard Drawn Steel Wire	Reverse Bend	IS 1785 (Part 2): 1983
136.	Steel pipes	Face Bend	IS 3589 : 2001
137.		Root Bend	IS 3589 : 2001
138.	Steel Products	% Elongation	ASTM A 370: 2024
139.		0.2 % Proof Stress	ASTM A370: 2024
140.		Bend Test	ASTM A 370: 2024
141.		Cold Heading Test	IS 11169 (Part 1): 2022
142.	Steel Products	Macro Etch Test/ Macro test	IS 7739 (Part 5): 1976
143.		Macro Examination	IS 11371: 2022
144.		Sulphur Print	IS 12037: 2023
145.		Tensile Strength	ASTM A 370: 2024
146.		Yield Strength	ASTM A 370: 2024

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



159 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
147.	Steel Tubes	Area of Cross Section	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601 : 2006 & IS 1161 : 2014
148.		Cold Bend Test	IS 2329: 2005
149.		Crushing Test	IS 3601: 2006
150.		Flattening Test	IS 2328: 2018
151.		Hydrostatic Test	IS 1239 (Part 1): 2004
152.		Internal Volume	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601: 2006 & IS 1161: 2014
153.		Modulus of Section	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601: 2006 & IS 1161: 2014
154.	Steel Tubes	Moment of Inertia	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601 : 2006 & IS 1161 : 2014
155.		Radius of Gyration	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601 : 2006 & IS 1161 : 2014
156.		Square of Radius of Gyration	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601 : 2006 & IS 1161 : 2014

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



160 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
157.		Surface External	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601 : 2006 & IS 1161 : 2014
158.		Surface Internal	KTRC-MECH-SOP-07 Dated 22.03.2021/IS 3601 : 2006 & IS 1161 : 2014
159.		Tube Drift Expansion Test	IS 2335: 2005
160.	Steel Wire for Springs	Bend Test	IS 4454 (Part 2): 2001
161.		Cast of the Wire	IS 4454 (Part 1): 2001
162.		Cast of the Wire	IS 4454 (Part 2): 2001
163.		Coiling & stretching	IS 4454 (Part 1): 2001
164.		Coiling & stretching	IS 4454 (Part 2): 2001
165.	Uncoated Stress Relieved Low Relaxation Seven Wire (Ply) Strand for Prestressed Concrete	Difference in Diameter	IS 14268: 2022
166.		Elongation	IS 14268: 2022
167.		Load at 1 % Extension	IS 14268: 2022
168.		Nominal Cross-Sectional Area of Strand	IS 14268: 2022
169.		Nominal Diameter of Strand	14268: 2022
170.		Nominal mass of strand	IS 14268: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



161 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
171.	Uncoated Stress Relieved Low Relaxation Seven Wire (Ply) Strand for Prestressed Concrete---3 ply strand 6003/6006 Metals	Lay Length	IS 14268: 2022
172.	Uncoated Stress Relieved Strand for Prestressed Concrete	Lay Length	IS 6006: 2014
173.		Nominal Cross-Sectional Area of Strand	IS 6006: 2014
174.	Ferrous materials, alloys & products	Izod Impact	IS 1598
175.	Cold Formed Welded Carbon Steel Square and Rectangular Hollow Sections	Concavity	IS 18573 : 2024
176.		Convexity	IS 18573 : 2024
177.		Area of Section	IS 18573 : 2024
178.		Moment of Inertia	IS 18573 : 2024
179.		Elastic Modulus	IS 18573 : 2024
180.		Plastic Modulus	IS 18573 : 2024
181.		Radius of Gyration	IS 18573 : 2024
182.		Twist	IS 18573 : 2024

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



162 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
183.	Hot-Dip Zinc-Aluminium-Magnesium Alloy Coated Steel Sheet, Plates and Strips	Bake hardening	IS 18513 : 2023
184.	Hot-Dip Galvanized/Galvannealed Steel sheet, Plate and Strip	Bake hardening	IS 18385 : 2023
185.	Galvanized Steel Sheets and Coils	Solvent Resistance Test	IS 14246 : 2024
186.	Pre-painted Aluminium Zinc Alloy Metallic Coated Steel Strip and Sheet	Solvent Resistance Test	IS 15965 : 2012
187.	Pre-painted Aluminium Zinc Alloy Metallic Coated Steel Strip and Sheet	Colour Test	IS 15965 : 2012
188.	Galvanized Steel Sheets and Coils	Humidity Resistance	IS 101 (P6/Sec1): 1988
189.	Ferrous materials, alloys & products	Proof Strength RP 1.0 (1.0 %)	IS 1608 (Part 1): 2022
190.	Steel Wire	Straightness	IS 4223: 1975
191.	Steel Wire	Deflection	IS 4223: 1975
192.	Steel Wire	Reverse Torsion	IS 1673: 1984
193.	Steel Wire	Crushing	IS 1673: 1984

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



163 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
194.	Hot-Dip Galvanized/ Galvannealed Steel sheet, Plate and Strip	Coating Adhesion	IS 18385: 2023
195.	Hot-Dip Zinc-Aluminium- Magnesium Alloy Coated Steel Sheet, Plates and Strips	Coating Adhesion	IS 18513: 2023
196.	Pre-painted Aluminium Zinc Alloy Metallic Coated Steel Strip and Sheet	T Bend Adhesion	IS 15965: 2012
197.	Aluminium, Zinc, Copper, Lead, Brass, Bronze, Aluminium Alloy	Length	KTRC-MECH-SOP-02: 2018
198.		Out of Square	KTRC-MECH-SOP-05: 2018
199.		Straightness	KTRC-MECH-SOP-04: 2018
200.		Thickness	KTRC-MECH-SOP-02: 2018
201.		Visual Appearance	KTRC-MECH-SOP-08: 2021
202.	Aluminium, Zinc, Copper, Lead, Brass, Bronze, Aluminium Alloy	Width	KTRC-MECH-SOP-02: 2018
203.	Non-Ferrous Metals, alloys & Products	Size	KTRC-MECH-SOP-02: 2018
204.		% Elongation	IS 1608 (Part 1): 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



164 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
205.	Non-Ferrous Metals, alloys & Products	% Reduction in Area	IS 1608 (Part 1): 2022
206.		0.2 % Proof Stress	IS 1608 (Part 1): 2022
207.		Bend Test	IS 1599: 2023
208.		Brinell Hardness HBW 2.5/187.5	IS 1500 (Part 1): 2020
209.		Charpy V Notch Impact test	IS 1757 (Part 1): 2020
210.		Rockwell Hardness HR30N	IS 1586 (Part 1): 2018
211.		Rockwell Hardness HR30TW	IS 1586 (Part 1): 2018
212.		Rockwell Hardness HRA	IS 1586 (Part 1) : 2018
213.		Rockwell Hardness HRBW	IS 1586 (Part 1) : 2018
214.		Rockwell Hardness HRC	IS 1586 (Part 1) : 2018
215.		Tensile Strength	IS 1608 (Part 1): 2022
216.		Ultimate Load/Maximum Load	IS 1608 (Part 1): 2022
217.		Vickers Hardness HV10	IS 1501 (Part 1): 2020
218.		Vickers Hardness HV20	IS 1501 (Part 1): 2020
219.		Vickers Hardness HV30	IS 1501 (Part 1): 2020

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



165 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
220.	Non-Ferrous Metals, alloys & Products	Vickers Hardness HV5	IS 1501 (Part 1): 2020
221.		Vickers Hardness HV50	IS 1501 (Part 1): 2020
222.		Yield Point	IS 1608 (Part 1): 2022
223.		Yield Strength	IS 1608 (Part 1): 2022
224.		Yield Stress	IS 1608 (Part 1): 2022
225.		Young's Modulus or Modulus of Rigidity	IS 1608 (Part 1): 2018
226.		Die Penetration test (Liquid penetrant flaw detection)	IS 3658: 1999
227.		Micrographic determination or estimation of grain size.	IS 4748: 2021/ISO 643: 2024/ASTM E112: 2024/IS 18829: 2024
228.	Non-Ferrous-Metals, alloys & Products (Aluminium, Zinc, Copper, Lead, Brass, Bronze, Aluminium Alloy)	Nominal Mass/ Weight Per Meter/ Mass	KTRC-MECH-SOP-01: 2018
229.	Non-Ferrous-Metals, alloys & Products (Aluminium, Zinc, Copper, Lead, Brass, Bronze, Aluminium Alloy)	Camber	KTRC-MECH-SOP-03: 2018
230.		Density	KTRC-MECH-SOP-10: 2021
231.		Depth	KTRC-MECH-SOP-02: 2018
232.		Diagonal Difference	KTRC-MECH-SOP-02: 2018

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



166 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
233.		Diameter	KTRC-MECH-SOP-02: 2018
234.		Flatness	KTRC-MECH-SOP-04: 2018
235.		Height	KTRC-MECH-SOP-02: 2018
236.		Radius	KTRC-MECH-SOP-02: 2018
237.		Sectional Area	KTRC-MECH-SOP-02: 2018
238.		Surface Roughness/Surface Finish	IS 3073: 1967
239.		Ultimate Load/Maximum Load	KTRC-MECH-SOP-06: 2021
240.		Angle/ Out of Squareness/ Slope	KTRC-MECH-SOP-02: 2018
241.		Out of Round/Ovality/Out of Shape	KTRC-MECH-SOP-02: 2018
242.	Steel Wire for Springs	Bend Test	IS 4454 (Part 1) : 2001
243.	Fusion welded joints and Weld metal	Macro Examination	ASME Section IX: 2021
244.		Nick Break Test	API 1104: 2021
245.		Tensile Strength	API 1104: 2021
246.		Tensile Strength	ASME Section IX: 2021
247.	Spiral welded pipes	Nick Break Test	IS 5504: 1997

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



167 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
248.	Welds & Welded Test Specimens	Rockwell Hardness HRBW	IS 1586 (Part 1): 2018
249.		Rockwell Hardness HRC	IS 1586 (Part 1): 2018
250.		Vickers Hardness HV10	IS 1501 (Part 1): 2020
251.		Vickers Hardness HV20	IS 1501 (Part 1): 2020
252.		Vickers Hardness HV30	IS 1501 (Part 1): 2020
253.		Vickers Hardness HV5	IS 1501 (Part 1): 2020
254.		Vickers Hardness HV50	IS 1501 (Part 1): 2020
255.	Electro Galvanized/Hot rolled and cold reduced Steel sheets and Strips	Coating Adhesion	IS 17404: 2020
256.	Welds & Welded Test Specimens	Charpy Impact Test	ASTM E 23: 2024
257.		Izod Impact Test	ASTM E 23: 2024



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
1.	Thermoplastic Pipe and Fittings	Mean outside diameter	IS 12235 (Part 1) : 2004
2.		Outside diameter at any point	IS 12235 (Part 1): 2004
3.		Wall Thickness	IS 12235 (Part 1): 2004
4.		Socket Diameters	IS 12235 (Part 1) : 2004
5.		Socket Length (Depth)	IS 12235 (Part 1): 2004
6.		Overall Length of pipe	IS 12235 (Part 1): 2004
7.	Unplasticized PVC Pipes for Water Supplies	Inner diameter of socket for use with elastomeric sealing ring	IS 4985: 2021 (Cl. 7.2.1.2)
8.		Depth of engagement	IS 4985: 2021 (Cl. 7.2.1.2)
9.		Taper Angle	IS 4985: 2021 (Cl. 7.2.1.1)
10.		Chamfer Angle	IS 4985: 2021 (Cl. 9)
11.	UPVC Injection Moulded Fittings for Waste Discharge System from Inside and	Dimensions	IS 14735: 1999 (Cl.7 Table 1,2,3,4,5 & 6)
12.	Outside Buildings Including Ventilation and Rain Water System	Chamber	IS 14735: 1999 (Cl. 7.4)
13.	Moulded PVC Socket fittings with solvent cement joints for water supplies	Laying length	IS 7834 (Part 2 to 7): 1987

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



169 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
14.	Plasticized PVC-U screening and casing pipes for bore/tube wells	Length	IS 12818: 2010 (Cl. 7.4)
15.		Height of Ribs	IS 12818: 2010 (Cl. 7.3)
16.		No. of Ribs/cm	IS 12818: 2010 (Cl. 7.3)
17.		Dimensions of Slot	IS 12818: 2010 (Cl. 7.5)
18.		Dimensions of Threads	IS 12818: 2010 (Cl. 8)
19.		Dimensions of sealing ring	IS 12818: 2010 Cl. 8.4.1)
20.	Unplasticized PVC Pipes for Water Supplies	Pipe end	IS 4985: 2021 (Cl. 9)
21.	Thermoplastic Pipe and Fittings	Opacity	IS 12235 (Part 3): 2004
22.		Longitudinal Reversion	IS 12235 (Part 5/Sec.1 & 2): 2004
23.		Longitudinal Reversion	IS 12235 (Part 5/Sec. 2): 2004
24.		Vicat Softening Temperature	IS 12235 (Part 2): 2004
25.		Density	IS 12235 (Part 14): 2004
26.		Hydrostatic Characteristics	IS 12235 (Part 8/Sec.1) & IS 12235 (Part 8/Sec. 4)
27.	Unplasticized PVC Pipes for Water Supplies	Resistance to external Blow	IS 4985: 2021 (Annex. C)
28.		Visual Appearance	IS 4985: 2021 (Cl. 10.1 & Cl. 10.1.1)
29.	Unplasticized PVC Pipes for Water Supplies	Colour	IS 4985: 2021 (Cl. 10.1)
30.		Socket End	IS 4985: 2021 (Cl. 7.2.1)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



170 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
31.	UPVC Pipe for Soil & Waste Discharge System	Colour of pipe	IS 13592: 2013 (Cl. 5)
32.		Dimensions	IS 13592: 2013 (Cl. 7)
33.		Visual Appearance	IS 13592: 2013 (Cl. 8.1)
34.	Thermoplastic Pipe and Fittings	Stress Relief Test	IS 12235 (Part 6): 2004
35.	UPVC Pipe for Soil & Waste Discharge System/ Thermoplastic Pipe and Fittings	Effect of Sunlight	IS 13592: 2013 & IS 12235 (Part 13): 2004
36.	Thermoplastic Pipe and Fittings	Resistance to sulphuric acid	IS 12235 (Part 7): 2004
37.		Resistance to external Blow	IS 12235(Part 9): 2004
38.		Tensile Strength	IS 12235 (Part 13): 2004
39.	UPVC Pipe for Soil & Waste Discharge System	Axial Shrinkage	IS 13592: 2013 (Annex. B)
40.		Water tightness of joint	IS 13592: 2013 (Cl. 11)
41.	Thermoplastic Pipe and Fittings	Resistance to Dichloromethane at specified temperature	IS 12235 (Part 11): 2004
42.	Upvc Injection Moulded Fittings for Waste Discharge System from Inside and Outside Buildings Including	Colour	IS 14735: 1999 (Cl. 5)
43.		Workmanship	IS 14735: 1999 (Cl. 9)
44.		Visual Appearance	IS 14735: 1999 (Cl.12.1)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



171 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
45.	Ventilation and Rain Water System	Vicat Softening Temperature	IS 6307: 2023
46.		Impact Test (Drop test)	IS 14735: 1999 (Annex C)
47.		Water Tightness of joint	IS 14735: 1999 (Annex D)
48.	Moulded PVC Socket fittings with solvent cement joints for water supplies	Short term hydraulic test	IS 7834 (Part 1): 1987 (Appendix D)
49.	Plasticized PVC-U screening and casing pipes for bore/tube wells	Colour	IS 12818: 2010 (Cl. 5)
50.		Threading of Pipes	IS 12818: 2010 (Cl. 8)
51.		Visual Appearance	IS 12818: 2010 (Cl. 9.1)
52.		Internal diameter	IS 12818: 2010 (Cl. 9.2)
53.	CPVC compound	Visual Appearance	IS 15225: 2002 (Cl. 8.1.5)
54.	CPVC compound / Plastics	Vicat Softening Temperature	IS 13360 (Part 6/ Sec1): 2018
55.		Charpy Impact Strength	IS 13360 (Part 5/ Sec5): 2017
56.	CPVC compound / Plastics	Tensile strength	IS 13360 (Part 5/Sec1)): 2021 & IS 13360 (Part 5/Sec 3)): 2022
57.		Tensile Modulus	IS 13360 (Part 5/Sec1)): 2021
58.	Chlorinated polyvinyl chloride (CPVC) pipes for potable hot	Verification of malfunction Temperature	IS 15778: 2007 (Annex. C)



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
59.	and cold-water distribution supplies/ Thermoplastic Pipe and Fittings	Pipe Ends	IS 15778: 2007 (Cl. 8)
60.		Visual Appearance	IS 15778: 2007 (Cl. 9.1)
61.		Flattening test	IS 12235 (Part 19): 2004
62.	Thermoplastic Pipe and Fittings	Hardness Shore A	IS 13360 (Part 5/Sec 11): 2013
63.		Hardness Shore D	IS 13360 (Part 5/Sec 11): 2013
64.	PE Material	Density	IS 7328: 1992
65.	PE Material/ PE Compound	Carbon Black Content	IS 2530: 1963
66.	PE Material/ PE Compound	Melt Flow Rate	IS 2530: 1963
67.	Polyethylene pipe for water supplies & Gaseous Fuels	Oxidation Induction Time (Thermal Stability)	IS 4984: 2016 (Annex. B)
68.		Colour	IS 4984: 2016 (Cl. 6.2)
69.		No of blue strips	IS 4984: 2016 (Cl. 6.2.1)
70.		Width of blue strips	IS 4984: 2016 (Cl. 6.2.1)
71.		Depth of Blue strips	IS 4984: 2016 (Cl. 6.2.1)
72.	Polyethylene pipe for water supplies. & Gaseous Fuels	Visual Appearance	IS 4984: 2016 (Cl. 7.1)
73.		Maximum out of Square	IS 4984 : 2016 (Cl. 7.1)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



173 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
74.		Length	IS 4984 : 2016 (Cl. 7.2)
75.		Mean Outside Diameter	IS 4984: 2016 (Cl. 7.4.1)
76.		Wall Thickness	IS 4984 : 2016 (Cl. 7.4.1)
77.		Hydraulic Characteristics (Internal Creep Rupture Test) Squeeze off test	IS 4984: 2016 (Annex. E) & IS 14885: 2022
78.		Longitudinal Reversion	IS 4984: 2016 (Annex. F)
79.	PE Material/PE Compound	Carbon Black Dispersion	IS 2530 : 1963
80.	Polyethylene pipe for water supplies/ PE Material/	Overall Migration	IS 9845: 1998
81.	PE Compound/ Rotational Moulded Polyethylene Water Storage Tanks	Overall Migration	IS 9845: 1998
82.	Plastics	Density	IS 13360(Part 3/Sec.10) : 2021
83.	Polyethylene pipe for water supplies	Tensile Strength for Butt Fusion	IS 4684 : 2016 (Annex G)
84.	Polyethylene pipe for water supplies	Elongation at break	IS 4984: 2016 (Annex H)
85.		Yield Strength	IS 4984: 2016 (Annex. H)
86.		Slow Crack Growth Rate	IS 4984: 2016 (Annex. J)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



174 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
87.	PE Material/ PE Compound	Tensile Strength at Yield	IS 2530 : 1963
88.		Elongation at Break	IS 2530 : 1963
89.	Irrigation Equipment — Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Dimensions	IS 17425: 2020 (Cl. 5, 6.2.1 & 7.2, Table 2, 3, 5,6,7 & 8)
90.		Workmanship and appearance (Visual appearance and workmanship)	IS 17425: 2020 (Cl.6.2.4 & 7.1.1)
91.		Holding attachments for coupler parts	IS 17425: 2020 (Cl. 6.2.5 & 7.2.2.2)
92.		Hydraulic Performance Characteristics (Fusion compatibility, Weldability, Quick Coupled fitting)	IS 17425: 2020 (Annex A)
93.		Tensile Strength at Yield	IS 17425 : 2020 (Annex. D)
94.		Elongation at Break	IS 17425 : 2020 (Annex. D)
95.		Reversion test	IS 17425: 2020 (Cl. 7.1.3)
96.		Leakage Test	IS 17425: 2020 (Cl. 7.2.1)
97.	Irrigation Equipment — Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Hydraulic Proof Test	IS 17425: 2020 (Cl. 7.2.2)
98.		Colour of rings	IS 17425: 2020 (Cl. 6.2.6)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



175 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
99.	Irrigation Equipment — Polyethylene Pipes for Irrigation Laterals	Outside Diameter	IS 12786: 2024 (Cl. 5)
100.		Wall Thickness	IS 12786: 2024 (Cl. 5)
101.		Visual Appearance	IS 12786: 2024 (Cl. 6)
102.		Hydraulic Characteristics	IS 12786: 2024 (Annex. C)
103.		Reversion	IS 12786: 2024 (Cl.7.2)
104.		Susceptibility to environmental stress crack	IS 12786: 2024 (Annex D)
105.		Internal Diameter of coil	IS 12786: 2024
106.	Rotational Moulded Polyethylene Water Storage Tanks	Visual Inspection	IS 12701: 1996 (Cl. 5)
107.		Capacity	IS 12701: 1996
108.		Dimensions	IS 12701: 1996 (Cl. 5.1, 5.2, 5.4, 5.5, 5.6 & Cl.9.1)
109.		Weight of tank	IS 12701: 1996 (Cl. 5)
110.		Flat area	IS 12701: 1996 (Cl. 5.3)
111.	Rotational Moulded Polyethylene Water Storage Tanks	Finish	IS 12701: 1996 (Cl. 6.1)
112.		Resistance to deformation	IS 12701: 1996 (Annex. B)
113.		Resistance to deformation	IS 12701: 1996 (Annex. B)
114.		Resistance to Impact	IS 12701: 1996 (Annex. C)
115.		Test for top load test	IS 12701: 1996 (Cl 7.3)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



176 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
116.	Plastics	Tensile strength at Yield	IS 13360 (Part 5/Sec 2): 2017
117.	Plastics	Flexural modulus	IS 13360 (Part 5/Sec 7): 2017
118.	Rotational Moulded Polyethylene Water Storage Tanks	Lid clearance	IS 12701: 1996 (Cl. 9.2)
119.		Lid fitment & Locking arrangement	IS 12701: 1996 (Cl. 9.2.1)
120.		Ribs	IS 12701: 1996 (Cl. 9.1)
121.	Irrigation equipment — emitting pipe systems —	Uniformity of Emission rate (Mean Emission rate (Q))	IS 13488: 2008 (Cl. 8.1)
122.		Uniformity of Emission rate (Coefficient of Variation (Cv))	IS 13488: 2008 (Cl. 8.1)
123.		Uniformity of Emission rate (Mean deviation from nominal emission rate)	IS 13488: 2008 (Cl. 8.1)
124.		Emission rate of Emitting unit as a function of inlet pressure	IS 13488: 2008 (Cl. 8.2)
125.	Irrigation equipment-emitting pipe systems	Emission rate of Emitting unit as a function of inlet pressure (Percentage Deviation of emission rate)	IS 13488: 2008 (Cl. 8.2)
126.		Wall Thickness	IS 13488: 2008 (Cl. 8.3.1)
127.		Inside Diameter	IS 13488: 2008 (Cl. 8.3.2)
128.		Flow path in Emitting Unit	IS 13488: 2008 (Cl. 8.3.3)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



177 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
129.		Spacing of Emitting Unit	IS 13488: 2008 (Cl. 8.3.4)
130.		Deviation in Spacing of Emitting Unit	IS 13488: 2008 (Cl. 8.3.4)
131.		Resistance to hydrostatic pressure at ambient temp. (Hydrostatic Pressure)	IS 13488: 2008 (Cl. 8.4.1 & 8.4.1.1)
132.		Resistance to hydrostatic pressure at ambient temperature (Flow rate)	IS 13488: 2008 (Cl. 8.4.1 & 8.4.1.2)
133.		Resistance to hydrostatic pressure at ambient temperature (Deviation)	IS 13488: 2008 (Cl. 8.4.1 & 8.4.1.2)
134.		Resistance to hydrostatic pressure at elevated temperature (Hydrostatic Pressure)	IS 13488: 2008 (Cl. 8.4.2 & 8.4.2.1)
135.		Resistance to hydrostatic pressure at elevated temperature (Flow rate)	IS 13488: 2008 (Cl. 8.4.1 & 8.4.2.2)
136.	Irrigation equipment-emitting pipe systems	Resistance to hydrostatic pressure at elevated temperature (Deviation)	IS 13488: 2008 (Cl. 8.4.1 & 8.4.2.2)
137.		Resistance to tension at elevated temperature (Pull out)	IS 13488: 2008 (Cl. 8.5)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



178 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
138.		Resistance to tension at elevated temperature (Flow rate)	IS 13488: 2008 (Cl. 8.5)
139.		Resistance to tension at elevated temperature (Deviation)	IS 13488: 2008 (Cl. 8.5)
140.		Resistance to tension at elevated temperature (Distance between two marked line)	IS 13488: 2008 (Cl. 8.5)
141.		Resistance to Pull Out Joints between fitting and emitting	IS 13479 : 1992
142.	Irrigation equipment — emitting pipe systems/ Irrigation Equipment — Polyethylene Pipes for Irrigation Laterals	Resistance to PE emitting pipe to Environmental stress cracking	IS 13488: 2008 (Cl. 8.7) & IS 12786 : 2024 (Annex. D)
143.	Irrigation equipment — emitting pipe systems	Determination of emitting unit exponent	IS 13488: 2008 (Cl. 8.8)
144.	Irrigation Equipment -Emitters	Construction & Workmanship	IS 13487: 1992 (Cl. 7.1)
145.		Flow Path in Emitter	IS 13487: 1992 (Cl. 7.2)
146.		Resistance to Hydrostatic Pressure	IS 13487: 1992 (Cl. 7.3)
147.		Emitter pull -out	IS 13487: 1992 (Cl. 7.4.2)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



179 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
148.		Uniformity of emission rate (Mean emission rate Q)	IS 13487: 1992 (Cl. 8.1)
149.		Uniformity of emission rate (Coefficient of Variation Cv)	IS 13487: 1992 (Cl. 8.1)
150.		Uniformity of emission rate (Mean Deviation from Nominal emission rate)	IS 13487: 1992 (Cl. 8.1)
151.		Emission rate as a function of inlet pressure (Emission rate)	IS 13487: 1992 (Cl. 8.2)
152.		Emission rate as a function of inlet pressure (Deviation)	IS 13487 : 1992 (Cl. 8.1)
153.		Determination of Emitter Exponent	IS 13487 : 1992 (Cl. 8.3)
154.		Dimensions	KTRC/MECH/SOP/02 : 2018
155.		Angle	KTRC-MECH-SOP-02: 2018
156.	PE Material/ PE Compound	Tensile strength at break	IS 2530 : 1963
157.	Polyethylene pipes for sewerage and industrial chemicals and effluent	Colour	IS 14333: 2022 (Cl. 6.2)
158.		Visual Appearance	IS 14333: 2022 (Cl. 7.1)
159.	Thermoplastic Pipe and Fittings	Elongation	IS 12235 (Part 13): 2004

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



180 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
160.	Polypropylene-Random Copolymer Pipes for Hot and Cold-Water Supplies	Colour	IS 15801: 2008 (Cl. 5)
161.		Diameter	IS 15801: 2008 (Cl. 7.1)
162.		Length	IS 15801: 2008 (Cl. 7.4)
163.		Wall Thickness	IS 15801: 2008 (Cl. 7.2)
164.		Impact Strength	IS 15801: 2008 (Annex. B)
165.		Visual Appearance	IS 15801: 2008 (Cl. 8)
166.	Polyethylene Films and Sheets	Thickness of Film	IS 2508: 2016
167.	Plastics/ Polyethylene pipe for water supplies	Melt Flow Rate	IS 13360 (Part 4/ Sec1) : 2000
168.	Plastics & Polymers	Pigment Dispersion	IS 14885 : 2012 (Annex A)
169.	Polyethylene Pipes for the Supply of Gaseous Fuels	Effect of gas condensate on the hydrostatic Strength.	IS 4984 : 2016 (Annex. E)
170.	Polyethylene Pipes for the Supply of Gaseous Fuels	Resistance to weathering	IS 14885 : 2022 (Annex. B)



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Rubber and Rubber Products		
1.	Vulcanized Rubber	Change in Volume (Water Immersion)	IS 3400 (Part 6): 2018
2.	Vulcanized Rubber	Density	IS 3400 (Part 9): 2020
3.	Vulcanized Rubber	Elongation at break	IS 3400(Part 1): 2021
4.	Vulcanized Rubber	Hardness-Shore A	ASTM D 2240: 2015
5.	Vulcanized Rubber	Hardness-Shore D	ASTM D 2240: 2015
6.	Vulcanized Rubber	Tensile Strength	IS 3400 (Part 1): 2021
7.	Vulcanized Rubber	Water Absorption	IS 5382: 1985
8.	Vulcanized Rubber	Hardness IRHD	IS 3400 (Part 2): 2014



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
1.	Geosynthetics	Grab Strength	IS 16635: 2017/ ISO 10319-2015/ MORTH Table 700/ASTM D 4632: 2023
2.		Tear Strength/	IS 14293: 2024/ MORTH Table 7002/ASTM D 4533: 2023
3.		Puncher strength	IS 13162 (Part 4): 1992/ MORTH Table 700-2
4.		Burst strength	ASTM D 3786: 2023/ MORTH Table 700-2
5.		Permeability (Permittivity)	IS 14324: 1995/ASTM D 4491: 2022
6.		Apparent opening sieve	IS 14294: 2024/ ASTM D 4751: 2021
7.		Tensile Strength	ISO 10319 -2015/IS 16635: 2017
8.		Stiffness at 0.5 % strain	ISO 10319 - 2015
9.		Tensile Strength	IS 16474: 2015/ASTM D 6637: 2023
10.		Tensile - Elongation	IS 16474: 2015/ASTM D 6637: 2023
11.		Mass per unit area	ISO 9864: 2005
12.		Mass per unit area	ASTM D 5261 : 2018
13.	Geomembrane and related products	Carbon Black content	ASTM D 4218 : 2020

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



183 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
14.	Geomembrane and related products	Carbon Black dispersion	ASTM D 4218: 2020
15.	Geosynthetics	Dynamic Perforation cone drop test	ISO 13433
16.		Nominal Thickness	ASTM D 5199: 2019
17.		Static puncture test (CBR)	IS 16078: 2013 / ISO 12236: 2006
18.	HDPE & PP Woven Sacks	Overall Migration	IS 9845: 1998
19.		Overall Migration	IS 9845: 1998
20.		Weight of fabric	IS 14968: 2015
21.		Bottom Seam	IS 14968: 2015 (Cl. 4.3.1)
22.		Bottom Seam	IS 14968 : 2015
23.		Mass of sacks	IS 1964 : 2001
24.		Mouth	IS 14968 : 2015
25.		Liner	IS 14968 : 2015 (Cl. 4.4)
26.		Dimensions	IS 14968 : 2015 (Annex. B) IS 18482 : 2023 (Annex. B) IS 16703 : 2017 (Annex. B) IS 16208 : 2015 (Annex. B) IS 14887 : 2014 (Annex. B) IS 11652: 2017 (Annex. B) IS 9755: 2021 (Annex. B)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



184 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
			IS 8069: 2023 (Annex. B)
27.	HDPE & PP Woven Sacks	End/dm and Picks /dm (Warp per dm & Weft per dm)	IS 14968: 2015 (Annex. B) IS 18482: 2023 (Annex. B) IS 16703: 2017 (Annex. B) IS 16208: 2015 (Annex. B) IS 11652: 2017 (Annex. B) IS 14887: 2014 (Annex. B) 29IS 9755: 2021 (Annex. B) IS 8069: 2023 (Annex. B)
28.	HDPE & PP Woven Sacks	Breaking Strength	IS 1969 (Part 1): 2018 IS 14968: 2015 (Annex. C) IS 16703: 2017 (Annex. F) IS 16208: 2015 (Annex. C) IS 14887: 2014 (Annex. C)
29.	HDPE & PP Woven Sacks /Jute bag	Breaking strength of seam	IS 9030: 2024
30.	HDPE & PP Woven Sacks /Jute bag	Elongation at break	IS 1969 (Part 1) : 2018 IS 14968 : 2015 (Annex. C) IS 16703 : 2017 (Annex. F) IS 16208 : 2015 (Annex. C) IS 14887 : 2014 (Annex. C)
31.	HDPE & PP Woven Sacks	Ash Content	IS 14968 : 2015 (Annex. D) IS 18482 : 2023 (Annex. F) IS 16703: 2017 (Annex. D) IS 16208: 2017 (Annex. D)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



185 of 187

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
			IS 14887: 2014 (Annex. D) IS 11652: 2017 (Annex. D) IS 9755: 2021 (Annex. C) IS 8069: 2023 (Annex. F)
32.	PP Woven Sacks	Mass of laminated fabric	IS 18482: 2023 (Annex. B)
33.	HDPE & PP Woven Sacks	Drop Impact Strength	IS 16703: 2017 (Annex. C) IS 11652: 2017 (Annex. C) IS 9755: 2021 (Annex. D) IS 8069: 2023 (Annex. F)



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Kailtech Test and Research Centre Private Limited

141C, Electronic Complex Industrial Area,
Indore-452010, Madhya Pradesh, India

QAI/CIA/TL/2025/0124

Valid from: 25 June 2025

Valid until: 24 June 2027

Accreditation Standard: ISO/IEC 17025:2017

Non-Destructive Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials – Reinforced Concrete Structures		
1.	Reinforced Concrete Structure	Carbonation Depth	IS 516 (Part 5/Sec.3): 2021
2.	Building Materials & Reinforced Concrete Structures	Electromagnetic Cover meter / rebar	BS 1881 (Part 208): 1988
3.	Reinforced Concrete structures	Load test in Bridges	IRC SP 51: 2014
4.	Reinforcing steel in concrete	Half-cell potential difference test	ASTM C876: 2022
5.	RCC Pile	Pile Integrity	ASTM D 5882: 2016
6.	Building Materials & Reinforced Concrete Structures	Rebound hammer	IS 516 (Part 5/Sec 4): 2020
7.	Building Materials & Reinforced Concrete Structures	Ultra Pulse Velocity test (NDT)	IS 516 (Part 5/Sec 1): 2018

