



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name SIERRA AIRCON PVT. LTD., C-470, PIONEER INDL. PARK, P.O. PATHREDI, (BILASPUR-TAURU ROAD), GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5320 Page No. : 1 / 17

Validity 02/05/2019 to 01/05/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method	Cooling Capacity Test (Clause no. 9.9).	IS 1391 Part 2+A1: 2018	1465 W to 12309 W
2	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method	Heat Pump Heating Capacity Test (Clause no. 9.11).	IS 1391 Part 2 + A1: 2018	1465 W to 13188 W
3	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method	Power Consumption Test for heating (Clause no. 9.8).	IS 1391 Part 2 + A1: 2018	300 W to 4500 W



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4	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method and Enthalpy method	1. Maximum Operating Condition Test for cooling & heating (Clause no. 9.4).2. Freeze-Up Test (Clause no. 9.5).3. Enclosure Sweat Test (Clause no. 9.6).4. Overload Rating Test (Heat Pump) (Clause no. 8.2.2).5. Power Factor Test (Clause no. 9.3).6. Noise Test (Clause no. 9.10).	IS 1391 Part 2: 2018 + A1 2018	Qualitative(Range: For Cooling - 1465 W to 12309 W. For Heating - 1465 W to 13188 W.)
5	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Enthalpy method	Heat Pump Heating Capacity Test (Clause no. 9.11).	IS 1391 Part 2: 2018 + A1 2018	1465 W to 13188 W
6	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Enthalpy method	Power Consumption Test for Heating (Clause no. 9.8).	IS 1391 Part 2: 2018 + A1 2018	300 W to 4500 W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
7	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method	Power Consumption Test for Cooling (Clause no. 9.7).	IS 1391 Part 2: 2018 + A1 2018	300 W to 4500 W
8	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Standard Cooling Capacity Test (Clause no. 5.2 and Clause no. 5.3.1).	ISO 16358-1: 2013	1465 W to 12309 W
9	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Enthalpy method	Cooling Capacity Test (Clause no. 9.9).	IS 1391 Part 2: 2018 + A1 2018	1465 W to 12309 W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
10	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Enthalpy method	Power Consumption Test for Cooling (Clause no. 9.7).	IS 1391 Part 2: 2018 + A1 2018	300 W to 4500 W
11	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & heat pumps) By Balanced ambient calorimeter method.	1. Maximum Cooling Performance Test (Clause no. 5.2). 2. Minimum Cooling, Freeze-up Air Blockage & Freeze-up Drip Performance Test (Clause no. 5.3). 3. Condensate Control and Enclosure Sweat Performance Test (Clause no. 5.5).	GB/T 7725(ISO 5151): 2004	Qualitative(Range: For Cooling - 1465 W to 12309 W. For Heating - 1465 W to 13188 W.)



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12	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	1. Maximum Cooling Performance Test (Clause no. 5.2). 2. Minimum Cooling, Freeze-up Air Blockage & Freeze-up Drip Performance Test (Clause no. 5.3). 3. Condensate Control and Enclosure Sweat Performance Test (Clause no. 5.5). 4. Maximum Heating Performance Test (Clause no. 6.2).	AS/NZS 3823.1.1: 2012	Qualitative(Range: For Cooling - 1465 W to 12309 W. For Heating - 1465 W to 13188 W.)
13	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & heat pumps) By Balanced ambient calorimeter method.	1. Maximum Operating Condition Test (Clause no. 12).2. Freeze-up Test (Clause no. 18).3. Enclosure Sweat Test (Clause no. 19).5. Condensate Disposal Test (Clause no. 20).6. Noise Test (Clause no. 23).	SASO 385 (GS 1006), SASO 2663: 2014	Qualitative(Range: For Cooling - 1465 W to 12309 W. For Heating - 1465 W to 13188 W.)





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14	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Electrical Input Test (Heat Pump) (Clause no. 7.3).	ANSI/AHAM RAC-1: 2015	300 W to 4500 W
15	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Heating Capacity Test (Clause no. 14).	SASO 385 (GS 1006), SASO 2663: 2014	1465 W to 13188 W
16	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Heating Capacity Test (Clause no. 7.2).	ANSI/AHAM RAC-1: 2015	1465 W to 13188 W



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17	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Heating Capacity Test (Clause no. 8.6).	ASHRAE 16: 2016	1465 W to 13188 W
18	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Heating Capacity Test (For EN 14511 -2 clause no. 4.2 & for EN 14511-3 clause no. 4.1.1).	EN 14511-2 & 3: 2018	1465 W to 13188 W
19	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Heating Capacity Test (High H1) (Clause no. 6.1).	AS/NZS 3823.1.1: 2012	1465 W to 13188 W



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20	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Heating Capacity Test (High H1) (Clause no. 6.1).	UAE.S/ISO 5151, UAE.S 5010-1: 2016	1465 W to 13188 W
21	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Test for Electric Power Consumption and Power Factor (Clause no. 15). Electric Power Consumption for heating (Clause no. 15.2)	SASO 385 (GS 1006), SASO 2663: 2014	300 W to 4500 W
22	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	1. Cooling Overload Test (Clause no. 5.2).2. Cooling Low Temperature Test and Freezing Draft Interference Test (Clause no. 5.3).3. Condensate Treatment and Exposure Test (Clause no. 5.5).	JIS B 8615-1: 2013	Qualitative(Range: For Cooling - 1465 W to 12309 W. )





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
23	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 13).	SASO 385 (GS 1006), SASO 2663: 2014	1465 W to 12309 W
24	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 5.1).	JIS B 8615: 2013	1465 W to 12309 W
25	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 5.1).	UAE.S/ISO 5151, UAE.S 5010-1: 2016	1465 W to 12309 W



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
26	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 5.1).	GB/T 7725(ISO 5151): 2004	1465 W to 12309 W
27	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 5.1).	AS/NZS 3823.1.1: 2012	1465 W to 12309 W
28	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 6.1).	ANSI/AHAM RAC-1: 2015	1465 W to 12309 W



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29	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (For EN 14511-2 clause no. 4.2 and for EN 14511-3 clause no. 4.1.2).	EN 14511-2 & 3: 2018	1465 W to 12309 W
30	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Electrical Input Test for cooling (Clause no. 6.2).	ANSI/AHAM RAC-1: 2015	300 W to 4500 W
31	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air - conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Test for Electric Power Consumption and Power Factor (Clause no. 15). Electric Power Consumption for cooling (Clause no. 15.1)	SASO 385 (GS 1006), SASO 2663: 2014	300 W to 4500 W



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32	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air Conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	1. Maximum Cooling Performance Test (Clause no. 5.2). 2. Minimum Cooling, Freeze-up Air Blockage & Freeze-up Drip Performance Test (Clause no. 5.3). 3. Condensate Control and Enclosure Sweat Performance Test (Clause no. 5.5). 4. Maximum Heating Performance Test (Clause no. 6.2).	UAE.S/ISO 5151, UAE.S 5010-1: 2016	Qualitative(Range: For Cooling - 1465 W to 12309 W. For Heating - 1465 W to 13188 W.)
33	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air Conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	1. Maximum Cooling Performance Test (Clause no. 5.2).2. Minimum Cooling, Freeze-up Air Blockage & Freeze-up Drip Performance Test (Clause no. 5.3).3. Condensate Control and Enclosure Sweat Performance Test (Clause no. 5.5).4. Maximum Heating Performance Test (Clause no. 6.2).	ISO 5151: 2017	Qualitative(Range: For Cooling - 1465 W to 12309 W. For Heating - 1465 W to 13188 W.)



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34	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air Conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	Heating Capacity Test (High H1) (Clause no. 6.1).	ISO 5151: 2017	1465 W to 13188 W
35	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air Conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 5.1).	ISO 5151: 2017	1465 W to 12309 W
36	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air Conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 8.5).	ASHRAE 16: 2016	1465 W to 12309 W





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37	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Room Air-Conditioner (Window Air-conditioners & Split Air-conditioner including High wall, Low wall, Floor Standing, Ceiling Cassette, under ceiling split & Heat Pumps) By Balanced ambient calorimeter method.	1. Maximum Operating Condition Test (Cooling) (Clause no. 6.12). 2. Freeze-up Test (Clause no. 6.13).3. Evaporator Air Blockage Test (Clause no. 6.13.1).4. Enclosure Sweat Test (Clause no. 6.14). 6. Condensate Disposal Test (Clause no. 6.15).7. Maximum Operating Condition Test (Heating) (Clause no. 7.5).	ANSI/AHAM RAC-1: 2015	Qualitative(Range: For Cooling - 1465 W to 12309 W. For Heating - 1465 W to 13188 W.)



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38	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) by Balanced ambient calorimeter method and Enthalpy method.	1. Maximum Operating Condition Test for Cooling and Heating (Clause no. 10.4).2. Freeze-up Test (Clause no. 10.5).3. Enclosure Sweat Test (Clause no. 10.6).4. Condensate Disposal Test (Clause no. 10.7).5. Air-Flow Quantities Measurement (Clause no. 9.1.6 and Clause no. 14).6 Overload Rating Test (Heat Pump) (Clause no. 9.2.2).7. Power Factor Test (Clause no. 10.3).8. Noise Test (Clause no. 10.11).	IS 1391 Part 1: 2017 + A1 2018	Qualitative(Range: For Cooling - 1465 W to 12309 W.For Heating - 1465 W to 13188 W.)
39	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) By Balanced ambient calorimeter method.	Cooling Capacity Test (Clause no. 10.10).	IS 1391 Part 1: 2017 + A1 2018	1465 W to 12309 W
40	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) by Balanced ambient calorimeter method.	Heat Pump Heating Capacity Test (Clause no. 10.12).	IS 1391 Part 1: 2017 + A1 2018	1465 W to 13188 W



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41	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) By Balanced ambient calorimeter method.	Power Consumption Test for Cooling (Clause no. 10.8).	IS 1391 Part 1: 2017 + A1 2018	300 W to 4500 W
42	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) by Balanced ambient calorimeter method.	Power Consumption Test for Heating (Clause no. 10.9).	IS 1391 Part 1: 2017 +A1 2018	300 W to 4500 W
43	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) By Enthalpy method.	Cooling Capacity Test (Clause no. 10.10).	IS 1391 Part 1: 2017 +A1 2018	1465 W to 12309 W
44	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) By Enthalpy method.	Heat Pump Heating Capacity Test (Clause no. 10.12).	IS 1391 Part 1: 2017 + A1 2018	1465 W to 13188 W
45	MECHANICAL-HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) By Enthalpy method.	Power Consumption Test for Cooling (Clause no. 10.8).	IS 1391 Part 1: 2017 +A1 2018	300 W to 4500 W



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name SIERRA AIRCON PVT. LTD., C-470, PIONEER INDL. PARK, P.O. PATHREDI,  
(BILASPUR-TAURU ROAD), GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5320 Page No. : 17 / 17

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
46	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC )	Unitary Air-Conditioner (Window Air-conditioner) by Enthalpy method.	Power Consumption Test for Heating (Clause no. 10.9).	IS 1391 Part 1: 2017 + A1 2018	300 W to 4500 W