

Test Report

1. GENERAL INFORMATION

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Test Report No.	ATL/2K26/0112	Date of Issue	23-04-2026
Receipt No.	JB/BIS/2K26/00000112	Date of Receipt	24-01-2026
Start of Test Date	24-01-2026	End of Test Date	23-04-2026
Testing Laboratory Name/ Address	ACE TEST LABS & METROLOGY PVT. LTD. PLOT NO. 68, HSIIDC, INDUSTRIAL ESTATE, RAI, SONIPAT, HARYANA-131029		

2. DETAILS OF THE SAMPLE TESTED

Manufacturer/ Applicant :	INDTECH CAPACITORS PVT LTD PLOT NO. D-2, SECTOR-A2, TRONICA CITY, GHAZIABAD, TRONICA CITY, GHAZIABAD, UTTAR PRADESH, INDIA - 201103
Sample description	Shunt Power Capacitor of Self-Healing Type for AC Power System
Identification	50kVAr
Serial No.	See page no.2
Ratings	See page no.2
BIS Sample Code	10472516/2026/SS/1
BIS Bar/ QR Code	100000922505
Test Specification	IS 13340 (Part 1):2024 / IEC 60831-1:2014 Shunt Power Capacitors of the Self-Healing Type for ac Systems having a Rated Voltage up to and Including 1 000 V, Part 1: General – Performance, Testing and Rating – Safety Requirements -- Guide for Installation and Operation
Test Result:	The test item passed / failed the test specification(s).
This test report relates to the test sample submitted and list of documents attached.	

 Digitally signed by
PRASHA
M JAIN

Tested By:
(T.E: Prasham Jain)

 Digitally signed by
Kamal
Kant

Reviewed & Approved By:
(TM: Kamal Kant)

 Digitally signed by
Jatin
Sharma

Issued By:
(STE: Jatin Sharma)



ATL/TRF/ IS 13340(Part-1)/V2.0

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PRODUCT SPECIFICATION/ DECLARED VALUE BY MANUFACTURE

Output Rating	50 kVAr
Ratings	480VAC, 60.14A, 50 Hz
Sr. No.	FG02535000004, FG02535000001, FG02535000003
Type of Connection	3/ Δ
Temperature Category	Class D
Insulation Level	3/8- kV
Dielectric	SH-MPP
Impregnant	NPCB
Declared tangent of Loss Angle (tan δ)	<0.003 max at 480V 50Hz
Discharge Device	Resistance E
Climatic Category	-25/55
Manufacturing Date	10-01-2026
Sample Quantity	1+2 (Dummy sample) pcs.

SAMPLE DESCRIPTION

Sample received, was physically verified and found in good condition with no apparent visible damage.

General remarks:

- The test results presented in this report relate only to the object tested.
- This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Possible test case verdicts:

- test case does not apply to the test object : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Laboratory conditions

Ambient Temperature : As per standard
Ambient Humidity : As per standard

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TEST SUMMARY

S No.	TEST REQUIREMENT	CLAUSE	VERDICT
1	Routine test	Cl.6.1	P
2	Capacitance measurement and output calculation	Cl.6.1. a & Cl 7	P
3	Measurement of the tangent of the loss angle ($\tan \delta$)	Cl.6.1. b & Cl 8	P
4	Voltage test between terminals	Cl.6.1.c & Cl 9.1	P
5	Voltage test between terminals and container	Cl.6.1. d & Cl 10.1	P
6	Test of the internal discharge device	Cl.6.1. e & Cl 11	P
7	Sealing test	Cl.6.1. f & Cl 12	P
8	Type test	Cl.6.2	P
9	Voltage test between terminals	Cl.6.2.c & Cl 9.2	P
10	Voltage test between terminals and container	Cl.6.2. d & Cl 10.2	P
11	Thermal stability test	Cl.6.2. a & Cl 13	P
12	Measurement of the tangent of the loss angle ($\tan \delta$) of	Cl.6.2. b & Cl 14	P
13	Lightning impulse voltage test between terminals and	Cl.6.2. e & Cl 15	P
14	Discharge test	Cl.6.2. f & Cl 16	P
15	Ageing Test	Cl.6.2. g & Cl 17	P
16	Self-healing test	Cl.6.2. h & Cl 18	P
17	Destruction Test	Cl.6.2. i & Cl 19	P
18	Maximum permissible Voltage	Cl.20	P
19	Maximum permissible Current	Cl.21	P
21	Discharge device	Cl.22	P
22	Container connections	Cl.23	P
23	Protection of the environment	Cl.24	P
24	Other safety requirements	Cl.25	P
25	Marking of the unit	Cl.26	P
26	Marking of the bank	Cl.27	P
27	General	Cl.28	N/A
28	Choice of the rated voltage	Cl.29	N/A
29	Operating temperature	Cl.30	N/A
30	Special service conditions	Cl.31	N/A
31	Overvoltages	Cl.32	N/A
32	Overload currents	Cl.33	N/A
33	Switching and protective devices and connections	Cl.34	N/A
34	Choice of creepage distance	Cl.35	N/A
35	Capacitors connected to systems with audio-frequency	Cl.36	N/A

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Clause	Requirement/Test	Observation/Result	Verdict
CI.6.1	Routine test		
CI.7 & CI.6.1.a	Capacitance measurement and output calculation	See below	P
	Capacitance shall be measured at voltage and frequency chosen by manufacturer. Capacitance Tolerance: (-5 to +10%)	Complies Test Voltage: 480V Test frequency: 50 Hz Change in Capacitance is in Tolerance	P
	Between terminal 1&2 (in μF)	350.4	P
	Between terminal 2&3 (in μF)	350.6	P
	Between terminal 3&1 (in μF)	350.4	P
	In three phase units, Ratio of maximum to minimum value of the capacitance measured between any two-line terminals shall not exceed 1.08.	The Ratio of maximum to minimum value of capacitance between any two lines terminals is less than 0.2	P
	Calculated output as per Annex B	Complies 50.74kVAr	P
CI 8 & CI.6.1.b	Measurement of the tangent of the loss angle ($\tan \delta$) of the capacitor	See below	P
	The capacitor losses (or $\tan \delta$) shall be measured at voltage and frequency chosen by manufacturer Capacitor losses (or $\tan \delta$) declared by manufacturer is <0.003.	Complies Test Voltage: 480V Test frequency: 50 Hz Measured value of $\tan \delta$ after voltage test between terminals at test voltage mention below	P
	Between terminal 1&2	0.002	P
	Between terminal 2&3	0.002	P
	Between terminal 3&1	0.001	P
CI 9.1& CI.6.1.c	Voltage test between terminals	See below	P
	Capacitor shall be subjected to an ac test at $U_t = 2.15 U_N$ for a minimum time of 2 sec. During the test, no permanent puncture or flashover shall occur. Self-healing breakdowns are permitted.	Test Voltage: 1032V Test Time: 2 sec Capacitor withstood Test Voltage for 2 Sec, During the test no permanent puncture or Flashover Occurred.	P
CI 10.1 CI.6.1. d	Voltage tests between terminals and container	See below	P
	Units having all terminals insulated from the container shall be subjected to an a.c. voltage applied between the terminals (joined together) and the container. The voltage to be applied is $2U_N + 2 \text{ kV}$ or 3 kV, whichever is higher, for 10 sec. or 20% higher for a minimum time of 2 s.	Test Voltage: 3kV Test Time: 10 sec Capacitor withstood Test Voltage for 10 sec. During the test no permanent puncture or Flashover Occurred.	P
	If the units are intended to be connected directly to the aerial power line and by agreement between the manufacturer and the user, the test shall be performed with a voltage of 6 kV.	Not intended to be connected directly to the aerial power line	N/A
	During the test, neither puncture nor flashover shall occur.	During the test no permanent puncture or Flashover Occurred.	P

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CI 11 & CI.6.1.e	Test of internal discharge device	See below	P
	Each capacitor unit and/or bank shall be provided with a means for discharging each unit in 3 min to 75V or less, from an initial peak voltage of $\sqrt{2}$ times rated voltage U_N .	U_N : 480V Test Voltage: 678.7V Measured Voltage during Discharged is below 75V in 3 minutes.	P
	There shall be no switch, fuse cut-out, or any other isolating device between the capacitor unit and this discharge device.	Complies	P
	A discharge device is not a substitute for short-circuiting the capacitor terminals together and to earth before handling.	Complies	P
CI 12 & CI.6.1.f	Sealing test	See below	P
	Un-energized capacitor units shall be heated throughout so that all parts reach a temperature not lower than 20 °C above the maximum value in table 1 corresponding to the capacitor symbol and shall be maintained at this temperature for 2 h. No leakage shall occur	No leakage occurred after the test	P
CI.6.2	Type test		
CI 9.2 & CI.6.2.c	Voltage Tests Between terminals	See below	P
	Capacitor shall be subjected to an a.c test at $U_t = 2.15 U_N$ for a minimum time of 10 sec. During the test, no permanent puncture or flashover shall occur	Test Voltage: 1032V Test Time: 10 sec Capacitor withstood test voltage for 2 Sec, During the test no permanent puncture of flashover occurred	P
CI 10.2 & CI.6.2.d	Voltage tests between terminals and container	See below	P
	Units having all terminals insulated from the container shall be subjected to an a.c. voltage applied between the terminals (joined together) and the container. The voltage to be applied is $2 U_N + 2 \text{ kV}$ or 3 kV, whichever is higher, for a duration of 1 min	Test Voltage: 3kV Test Time: 1 min Capacitor withstood Test Voltage for 1 min	P
	Units are intended to be connected directly to the aerial power line; the test shall be performed with a voltage of 6 kV	Not intended to be connected directly to the aerial power line	N/A
	During the test, neither puncture nor flashover shall occur	During the test neither puncture nor flashover occurred	P
	If the capacitor container is of insulating material, the test voltage shall be applied between the terminals and a metal foil wrapped closely round the surface of the container.	No such construction used	N/A

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	The test shall be made under dry conditions for indoor units, and with artificial rain (See IEC 60060-1) for units to be used outdoors.	No such construction used			N/A
CI 13 & CI.6.2.a	Thermal stability test	See below			P
	The test capacitor unit subjected to the test shall be placed between two dummy units submitted by manufacturer which shall be energized at the same voltage as the test capacitor. After all parts of capacitor have attained temperature of the ambient air, the capacitor shall be subjected for 48h to an a.c. voltage of sinusoidal form. The magnitude of the voltage of the test shall be adjusted to give a calculated output of at least 1.44 times its rated output.	The Capacitor was subjected for a period of 48 hrs to an AC voltage and throughout the last 24 hrs of the test voltage 528V AC was supplied to give calculated output of 1.44 times its rated output at 55 °C			
	During the last six hours, the temperature of the container near the top shall be measured at least four times. The temperature rise shall not be increase by more than 1°C.	Complies			P
	At the end of the stability test, the difference between the measured temperature of the container and the ambient air temperature shall be recorded.	Difference between ambient temperature and temperature of capacitor body was 0.8°C at the end of stability test			P
	Before and after the test the Capacitance shall be measured within the standard temperature range for testing before and after the thermal stability test. These two measurements shall be corrected to the same dielectric temperature.	Complies			P
		Capacitance (Before test)	Capacitance (After test)	Percentage Changed (%)	
	Between terminal 1&2 (in µF)	350.4	346.27	1.179	
	Between terminal 2&3 (in µF)	350.6	347.45	0.898	
	Between terminal 3&1 (in µF)	350.4	346.23	1.190	
	No change of capacitance greater than 2% shall be apparent from these measurements.	The change in capacitance before and after Thermal Stability test was found less than 2%.			P
A measurement of the tangent of the loss angle (tan δ) shall be made before and after the thermal stability test, at a temperature of approximately 20 °C. (Change in Loss angle: Max. 2x10 ⁻⁴)	Complies			P	
	Tan δ (Before test)	Tan δ (After test)	Change in (Tan δ)		
Between terminal 1&2	0.003	0.002	0.001		
Between terminal 2&3	0.003	0.002	0.001		
Between terminal 3&1	0.002	0.001	0.001		

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CI 14 & CI.6.2.b	Measurement of the tangent of the loss angle (tan δ) of the capacitor at elevated temperature	See Below	P
	The capacitor losses (tanδ) shall be measured at the end of the thermal stability test. The measuring voltage shall be that of thermal stability test (i.e. = 528 volts) and at rated frequency, i.e. = 50 Hz The value of tan δ, measured in accordance with 14.1, shall not exceed the value declared by manufacturer. The value declared by the customer is <0.003	After the end of thermal stability test measured tan δ value at 528 V AC & Frequency: 50 Hz and at 55.4 °C were mentioned below	P
	Between terminal 1&2	0.002	
	Between terminal 2&3	0.002	
	Between terminal 3&1	0.001	
CI 15 & CI.6.2.e	Lightning impulse voltage test between terminals and container	See Below	P
	The impulse test shall be performed with a wave of 1.2/50 μs to 5/50 μs having a peak value of 8 kV if the rated voltage of the capacitor is $U_N \leq 690$ V or having a peak value of 12 kV if $U_N > 690$ V. No. of impulses: 3 Positive polarities followed by 3 Negative polarity between the terminals joined together and container. During the test no failure shall occur	Capacitor withstood 3 impulses of 8kV of positive polarity followed by 3 impulses of negative polarity applied Between terminals joined together and Container During the test no failure occurred During test	P
	Units intended to be connected directly to the aerial power line, test shall be performed at voltage having peak value of 15kV for capacitors rated voltage $U_N \leq 690$ V or having a peak value of 25 kV if $U_N > 690$ V.	Not intended to be connected directly to the aerial power line	N/A
CI 16 & CI.6.2.f	Discharge test	See Below	P
	The unit shall be charged by means of DC and discharged through a gap situated as close as possible to the capacitor. It shall be subjected to five such discharges within 10 min. The test voltage shall be equal to $2U_N$ (i.e. = 960V) DC. Within 5 min after this test, the unit shall be subjected to a voltage test between terminals at $2.15U_N$ (i.e. = 1032V) AC for 2 seconds.	The capacitor was charged to 960V DC and discharged through an air gap. Five such charging and discharging Cycles were performed within 10 minutes. Within 5 min after this test, capacitor was subjected to a voltage test between terminals at $2.15U_N$ (i.e.= 1032V) AC for 2 seconds. After the test no permanent puncture or flashover occurred	P

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	The capacitance shall be measured before the discharge test and after the voltage test.	Capacitance (Before test)	Capacitance (After test)	Percentage Changed (%)	P
	Between terminal 1&2 (in μF)	349.2	346.8	0.687	
	Between terminal 2&3 (in μF)	349.5	347.3	0.629	
	Between terminal 3&1 (in μF)	348.7	347.1	0.459	
	The measurements shall not differ by an amount corresponding either to breakdown of an element, or to blowing of an internal fuse, or by more than 2%.	The change in capacitance before and after Discharge test was found within the specified limit			P
CI.17	Ageing Test	See below			P
	The requirements of this test as per IS 13440 (Part 2)/IEC 60831-2	See below			P
	The capacitor unit is mounted as specified in enclosure in which heated air is circulated with an air velocity such that the temperature variation at any point of enclosure do not exceed 2°C . The capacitor shall be energized at a voltage equal to 1.25 UN (i.e. 600V) for 750 hours. For Ageing test, case temperature of the capacitor shall be maintained which is the highest mean temperature in 24 hours (as per Table 1 of IS 13340 (Part 1):2012) plus the difference between the capacitor case temperature and the cooling air temperature recorded at the end of thermal stability test	Test Voltage: 600V Test Time: 750Hrs Complies			P
	The capacitor shall then be subjected to 1000 discharge cycles consisting of charging the capacitor to a dc voltage of 2UN between terminal 1&3 (terminal 2 left open) for 30s minimum charge-discharge cycle as specified.	Complies			P
	The Ageing test will repeat after 1000 charge and discharge cycles at 1.25 UN for 750 hours	Complies			P
	During the test no permanent breakdown, interruption or flashover shall occur.	No permanent breakdown, interruption or Flashover occurred			P
	Change in Capacitance before and after ageing test.	Capacitance (Before test)	Capacitance (After test)	Percentage Changed (%)	P
	Between terminal 1&2 (in μF)	346.8	345.6	0.346	P
	Between terminal 2&3 (in μF)	347.5	346.2	0.374	P
	Between terminal 3&1 (in μF)	347.4	346.5	0.259	P
	Overall Phase (Limit: 3% Max.)	Complies			P
	On one phase, (Limit: 5% Max.)	Complies			P
	The Voltage test has been carried out between terminals and container as prescribed in 10.1 of IEC 60831-1:2014	No puncture or flashover occurred			P
	The Sealing test has been carried out as prescribed in Cl. 12 of IEC 60831-1:2014	Complies			P

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CI 18 & CI.6.2.h	Self-healing Test	See Below	P
	The capacitor or element shall be subjected to an ac voltage of 2.15UN for 10 seconds. If fewer than five breakdowns occurred during this time the voltage shall be increased slowly until five breakdowns have occurred since the beginning of the test or until the voltage has reached 3.5 times the rated voltage. Before and after this test the capacitance shall be measured at rated voltage and frequency	Test Voltage: 1032VAC Test Time: 10 Sec Five no of Self-Healing Breakdown occurs at 1032V AC Capacitance (Before test) Capacitance (After test) Percentage Changed (%) Between terminal 1&2 (in µF) 345.2 343.7 0.435 Between terminal 2&3 (in µF) 346.4 345.2 0.346 Between terminal 3&1 (in µF) 346.1 344.8 0.376	P
	Change in Capacitance before and after the Self-healing test (Limit ≤ 0.5%)	The change in capacitance before and after Self-Healing test was found within the specified limit.	P
CI 19	Destruction Test	See Below	P
	The capacitor sample was mounted in a circulating air oven maintained at a temperature of 55°C. After, all the parts of the capacitor attained the test temperature; the destruction test was performed between terminals 3 and 1 & 2 (joined together). a) A.C. Voltage 1.3UN (i.e.624V) b) D.C. Voltage 10 UN (i.e.4.8kV)	Complies	P
	At the Conclusion of the test , Following Conditions are met	See Below	P
	a) Escaping liquid material may wet the outer surface of the capacitor but shall not fall in drops.	Complies	P
	b) Container may deform & damage but not broken.	Container not broken	P
	c) Flame or fiery shall not be emitted from opening	No Flame Occurs	P
	d) The results of dielectric test between terminal and container with 1500V for 10s shall be satisfactory	Complies Capacitor withstood Test Voltage For 10 sec	P
CI. 20	Maximum permissible Voltage	Long duration voltage as per table 3 of clause no 20.1 of IS 13340 (Part 1):2024 Part 1 as declared by manufacturer.	P
CI. 21	Maximum permissible current	Max. Current 1.3 times as per IS 13340 as declared by manufacturer. On account of capacitance tolerances of 1,1 Cv, the maximum current is 1,43 IN as declared by manufacturer	P
CI.22	Discharge device	See Below	P

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	Each capacitor unit and/or bank shall be provided with a means for discharging each unit in 3 min to 75 V or less, from an initial peak voltage of 2 times rated voltage U_N .	Complies	P
	There shall be no switch, fuse cut-out, or any other isolating device between the capacitor unit and this discharge device.	Complies	P
	A discharge device is not a substitute for short-circuiting the capacitor terminals together and to earth before handling.	Complies	P
CI.23	Container connections	See Below	P
	To enable the potential of the metal container of the capacitor to be fixed, and to be able to carry the fault current in the event of a breakdown to the container, the metallic container shall be provided with connection capable of carrying the fault current.	Terminal available in the sample for fixing are able to carry maximum fault current.	P
CI.24	Protection of the environment	See Below	N/A
	When capacitors are impregnated with products that shall not be dispersed into the environment, the necessary precautions shall be taken. In some countries, there exist legal requirements in this respect (see 26.3). The units and the bank shall be labelled accordingly, if so required.	No such type of capacitor	N/A
CI.25	Other safety requirements	See Below	N/A
	The purchaser shall specify at the time of enquiry any special requirements with regard to the safety regulations that apply to the country in which the capacitor is to be installed.	No such requirement	N/A
CI.26	Marking of the unit	See Below	P
	Rating plate	See Below	P
	The following information shall be marked indelibly, either directly or by means of a plate, on each capacitor unit:	See Below	P
	a) Manufacturer	Marked	P
	b) Identification number and manufacturing year (The year may be a part of the identification number or be in code form.)	Marked	P
	c) Rated output QN in kilovars (kvar).	50kVAr	P
	d) Rated voltage U_N in volts (V).	480VAC	P
	e) Rated frequency f_N in hertz (Hz).	50Hz	P
	f) Temperature category	-25/55	P

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	g) Discharge device, if internal, shall be indicated by wording or by the symbol  or by the rated resistance in kilohms (kΩ) or megohms (MΩ).	Marked	P
	h) Reference of self-healing design: "SH" or  "self-healing".	Marked	P
	i) Connection symbol (All capacitors, except single-phase units having one capacitance only, shall have their connection indicated. For standardized connection symbols, see 26.2).	Marked	P
	j) Internal fuses, if included, shall be indicated by wording or by the symbol 	No such construction	N/A
	k) Indication for the overpressure or thermal disconnector, if such disconnector is fitted.	Overpressure disconnector	P
	l) Insulation level Ui in kilovolts (kV). (Only for units having all terminals insulated from the container).	Marked	P
	m) Reference to IEC 60831 (plus year of issue of the edition).	Marked	P
	A warning notice should be included as follows: "WARNING: WAIT 5 MINUTES AFTER ISOLATING SUPPLY BEFORE HANDLING	Marked	P
CI.26.2	The type of connection shall be indicated either by letters or by the following symbols:	See Below	P
	D or Δ = Delta	Marked	P
	Y or  = star	See Above	N/A
	YN or  = star, neutral brought out	See Above	N/A
	III or = three sections without interconnection	See Above	N/A
	When capacitors are impregnated with products that shall not be dispersed into the environment (see clause 24), the capacitor shall carry markings in accordance with the laws or regulations in force in the user's country, the onus being on the user to inform the manufacturer of such laws or regulations.	No Such Construction	N/A
CI.27	Marking of the bank	See Below	N/A
CI.27.1	Instruction sheet or rating plate	See Below	N/A
	The following minimum information shall be given by the manufacturer in an instruction sheet, or alternatively, on request of the purchaser, on a rating plate:		N/A
	a) Manufacturer.	See Above	N/A

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	b) Rated output QN in kilovars (kvar). (Total output to be given.)	See Above	N/A
	c) Rated voltage U_N in volts (V).	See Above	N/A
	d) Connection symbol.	See Above	N/A
	e) Minimum time required between disconnection and reclosure of the bank.	See Above	N/A
	f) Weight in kilograms (kg).	See Above	N/A
CI.27.2	Subclause 26.3 is also valid for the bank.	See Above	N/A
CI.28	General	Guide for installation and operation Considered in Final Installation	N/A
CI.29	Choice of the rated voltage	Guide for installation and operation Considered in Final Installation	N/A
CI.30	Operating temperature	Guide for installation and operation Considered in Final Installation	N/A
CI.31	Special service conditions	Guide for installation and operation Considered in Final Installation	N/A
CI.32	Overvoltages	Guide for installation and operation Considered in Final Installation	N/A
CI.33	Overload currents	Guide for installation and operation Considered in Final Installation	N/A
CI.34	Switching and protective devices and connections	Guide for installation and operation Considered in Final Installation	N/A
CI.35	Choice of creepage distance	Guide for installation and operation Considered in Final Installation	N/A
CI.36	Capacitors connected to systems with audio- frequency remote control	Guide for installation and operation Considered in Final Installation	N/A

Note:

- The result listed refers only to the tested samples and applicable parameter.
- Endorsement to product is neither inferred nor implied.
- Total liability of our Test Lab is limited to the invoice amount.
- Samples will be retained for maximum period as specified in CAB's internal policy.
- The report is not to be reproduced wholly or in a part and cannot be used as evidence in the court of law and should not be used in any advertising media without our permission in writing.
- Report refers to sample submitted to us and not drawn by CAB unless mentioned otherwise.
- The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer.

*****End of Test Report*****

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