






Report No.: EMTR/E&E/EL31002F/0029	Date of Issue: 15/07/2020	Page 1 of 6
ULR No: TC641220000000022F	Discipline:Electrical	Group: Environmental Test Facility

1	Sample Registration No.	EL31002F	
2	Date of Registration	11/07/2020	
3	Name & Address of the Customer	BS Technotronics Private Limited H.No.: 9-5-20, 3rd Floor, S G R Colony, Beside Sub-Registrar Office, Champapet, Hyderabad -500079, Telangana, India	
4	Sample Identification	Product	AIS-140 GPS DEVICE
		Brand/Manufacturer	BS Technotronics Private Limited H.No.: 9-5-20, 3rd Floor, S G R Colony, Beside Sub-Registrar Office, Champapet, Hyderabad -500079, Telangana, India
		Model	BSTPL-17IS
		Serial Number	BSTPL17A0720000001
		Quantity	02
5	Condition When Received	Good working condition	
6	Standard Reference	IS/IEC 60529: 2001	
7	Scope of Testing	IP67	
8	Sample Flow Data	Received on	11/07/2020
		Test Started on	11/07/2020
		Test Completed	14/07/2020
9	Tested At	EMTAC LABORATORIES PVT LTD Plot no-11/6, Road no-9, IDA Nacharam, Hyderabad- 500076, Telangana, India	
10	Test Results	Pass	

TESTED BY	AUTHORISED BY	ISSUED BY
		
DVN Prasad / Jr. Engineer Date: 15/07/2020	S Nagender / Sr. Engineer Date: 15/07/2020	S Nagender / Sr. Engineer Date: 15/07/2020

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TESTING ENVIRONMENTAL CONDITIONS:

Ambient Temperature..... :	15°C to 35°C
Ambient Humidity :	25% to 75%
Air pressure :	86 kPa to 106 kPa (860 mbar to 1060 mbar).

PRODUCT DESCRIPTION: AIS-140 GPS DEVICE**TEST SUMMARY:**

Test Description	Test Method	Verdict
IP6X Dust-tight	Cl. No. 13.4 & 13.6 of IS/IEC 60529:2001	Pass
IPX7 Protected against the effects of temporary immersion in water	Cl. No 14.2.7 of IS/IEC 60529:2001	Pass

TEST TABLES:

TEST TABLE:	
Test Name	Dust test for first characteristic numerals 6
Clause No.	13.4 of IS/IEC 60529: 2001
Test Method	The EUT is placed in a Dust chamber with the talcum powder circulating and the enclosure is deemed to be category 1 as per the IS/IEC 60529 standard. Depression: 2 kPa Test Duration: 8 Hours
Test requirement	Dust shall not be accumulated inside the EUT where safety may impair, or it could interfere with correct operation or reduce the creepage values.
Test results/Observations	At the end of the test: There is no dust inside the enclosure and does not impaired to be safety and EUT working normally.
Supplementary Information: See Annexure I for testing pictures	

Test Name	Temporary immersion water test for second characteristic numeral 7
Clause No.	14.2.7 of IS/IEC 60529: 2001
Test Method	The lowest point of enclosures with a height less than 850mm is located 1000mm below the surface of the water. The highest point of enclosures with a height equal to or greater than 850mm is located 150mm below the surface of the water. Test Duration: 30 Minutes
Test requirement	1)The water deposited shall be reported. 2)EUT shall be operated after the test
Test results/Observations	At the end of the test, There is no trace of water inside the enclosure and EUT working normally.
Supplementary Information: See Annexure II for testing pictures	



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Annexure I (IP6X Dust-tight)



Before test sample view

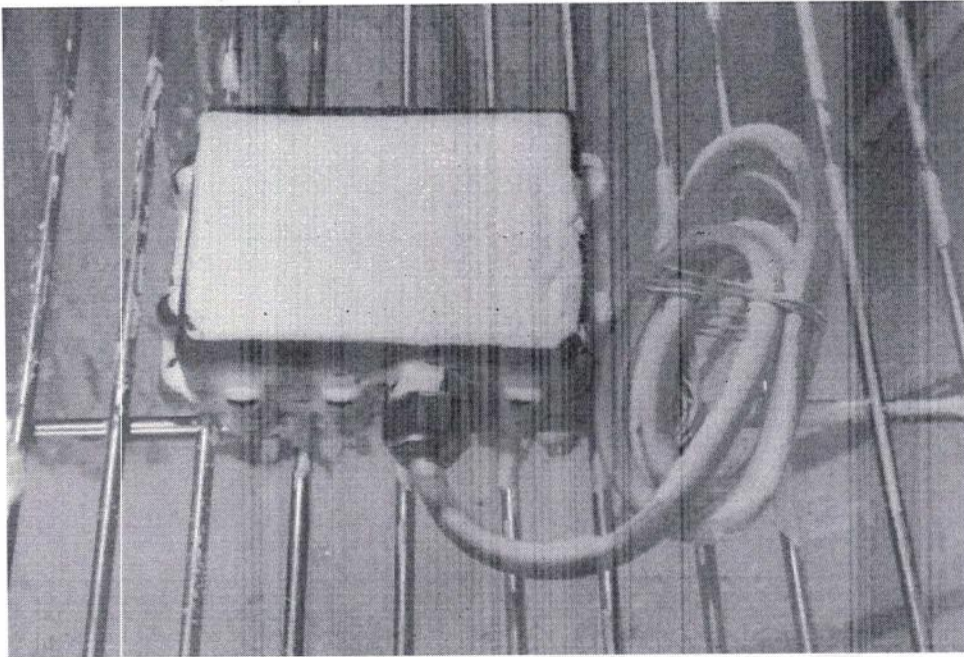


Before IP6X testing

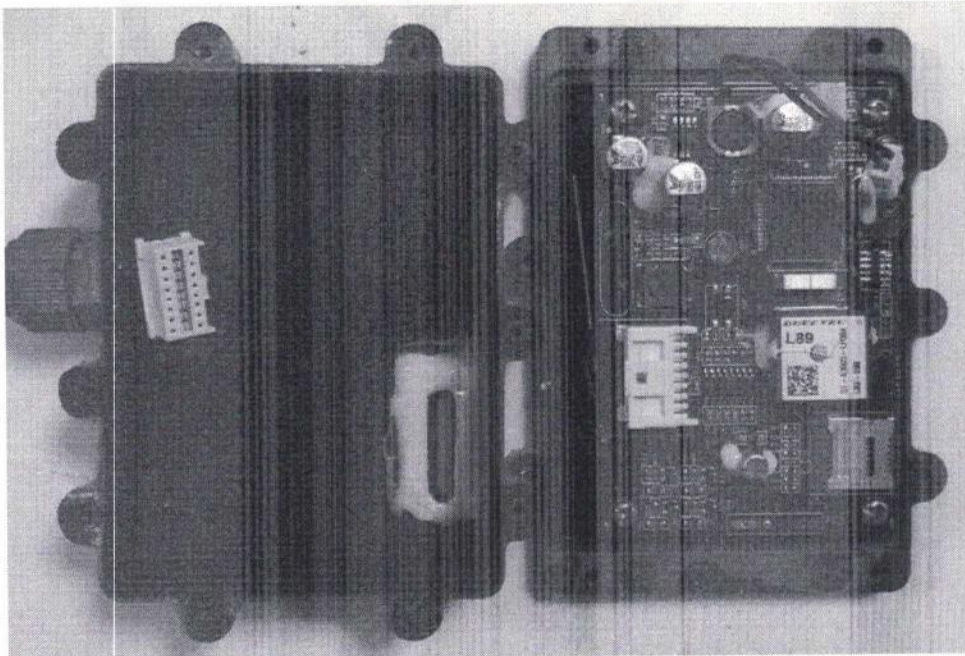
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After IP6X testing



After IP6X testing



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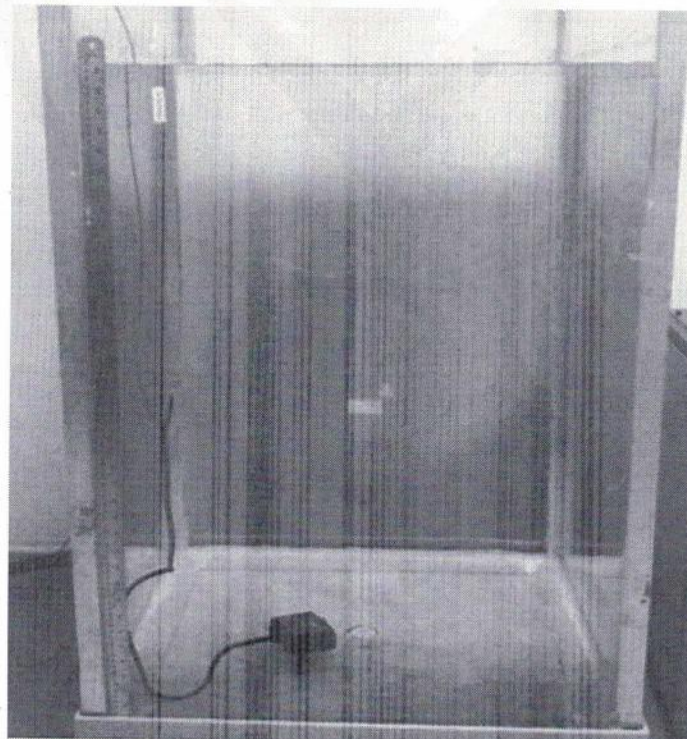
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Annexure II (IPX7 Temporary Immersion in Water)



Before test sample view

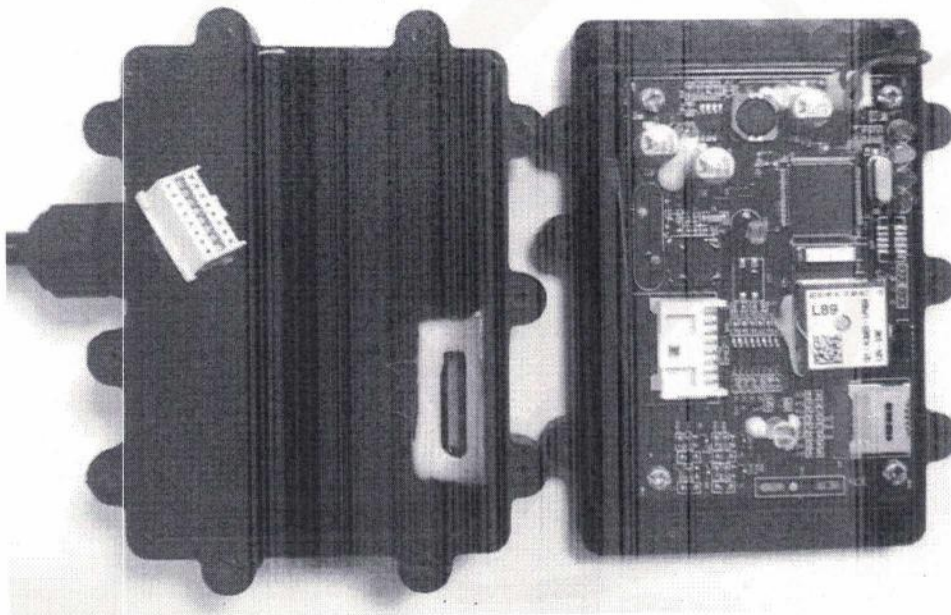
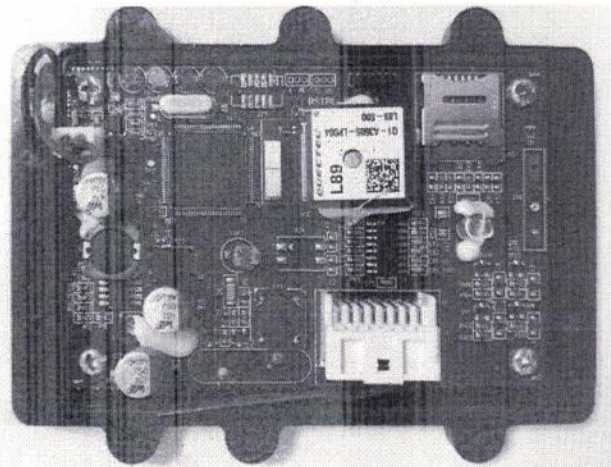


IPX7 testing

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After IPX7 testing

Terms and conditions governing this test report

1. This test report relates only to the products tendered for testing.
2. This test report shall not be reproduced except in full without the written approval of the issuing authority.
3. In case any clarification on the issued test report, it must be raised within one month from the date of receipt of the test report.
4. The Specified ambient conditions were maintained during the test.
5. In case any dispute, the decision of the HOD (E&E), Shall be final and binding

PLACE: Hyderabad
DATE: 15/07/2020

