Test Report

M/s. DUROTEK SOLUTIONS PVT. LTD.

REPORT NUMBER : 4788931307-01-NABL-S2
PROJECT NUMBER: 4788931307-01-NABL-S2

ULR NUMBER: TC622119000000217F

TC-6168, TC-6221,
TC-8159

Location (A)
UL India Pvt Limited,
Laboratory building,
Kalyani Platina Campus,
Sy.no.129/4, EPIP Zone,
Phase II, Whitefield,
Bangalore – 560 066 P:91-80-41384400

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Location (B)
UL India Pvt Limited,
A-12, Sector 34, Infocity
Phase 1, Gurgaon –
122001

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Location (C)
UL India Pvt Limited,
Site: UL Jain Fire
Laboratory, Jain
University Campus,
Jakkasandra, Kanakpura
Taluk, Ramanagara Dist. –
562112

TEST DISCIPLINE: ELECTRICAL
PRODUCT GROUP: ENVIRONMENTAL TEST FACILITY

General details

Customer / Applicant	M/s. DUROTEK SOLUTIONS PVT. LTD. AH-270, 4C, 3RD BLOCK, 8TH MAIN ROAD, SHANTHI COLONY, ANNA NAGAR, CHENNAI 600 040		
Manufacturer	M/s. DUROTEK SOLUTIONS PVT. LTD.		
Program	NABL		
Test Lab Location	(b) UL Gurgaon	**Refer to Cover page for the UL address**	
Item Under Test	EMS (ELECTRONIC MARKER SYSTEMS)		
Model	DUROdisk - TEL 400		
Number of Samples	1 No.		
UL Sample Identification	2152771-1	**Refer Summary of Test results for multiple samples**	
Manufacturer Serial Number (if any)	001		
Condition of IUT on receipt	Good		
Date of Receipt	18 March 2019		
Applicable Standard	IEC 60529, edition 2.2: 2013.08.		
Date of Testing (Start date)	25 March 2019	**End Date**	3 April 2019
UL general^ ambient condition	**Temperature in °C**		23 ±5°C
	Relative humidity in %		<70 %
Date of Reporting	12 April 2019		
Test In-charge	Kuldeep Yadav		

Fill in the rows with information or add hyphen (-)

Abhay Mehta Senior Project Engineer	Satish Kumar Engineering Manager
Reviewed by	**Authorized signatory**

General Remarks

- Immersion time 30 minutes as per ref. standard.
  Duration of Test-2h

Description of Item under Test (IUT)

Sample Catalogue No: DD-V01
Dielectric Test was not performed on the Sample.

Summary of Test Results

Test No	Test Parameter	Standard & Clause Number	UL Sample ID	Result
1	Degree of protection against Dust (IP 6X)	Clause no.13.6 of IEC 60529, edition 2.2: 2013.08	2152771-1	P
2	Continuous immersion subject to agreement (IP X8)	Clause No 14.2.7 of IEC 60529, edition 2.2: 2013.08		P

P: Meets the requirements F: Does not meet the requirement NA: Not applicable

Reviewed by signature:

Test No: 1- Degree of protection for the first characteristic numeral 6 (Category1)

Environment Conditions:

Ambient Temperature= 25.9°C and Relative Humidity= 58.7%

Master Equipment and Calibration details:

Sr. No.	Test Equipment	UL Equipment ID	Calibration status (Valid up to)
1	Test Probe(1.0 mm dia)	TP05	20/06/2019
2	Dust Chamber with Barometer	DC 01	03/07/2019
3	Digital Stop Watch	DSW 06	04/07/2019
4	Digital Barometer	BAR 01	13/03/2020

Test Methodology Adopted:

- The test for protection against access to hazardous parts was performed by using test probe of dia 1mm as per clause 12 of IEC 60529, edition 2.2: 2013.08.
- The test for protection against solid foreign objects was made using a dust chamber as per Figure No 2 of Clause no.13.4 of IEC 60529, edition 2.2: 2013.08
- The sample shall be in a clean and new condition, with all parts in place and mounted as per normal operating condition.
- Enclosure Category: 1
- The Sample was tested in Non-Energized condition.

Test Observation:

Observation:

The protection was satisfactory on inspection, as no dust was observed inside the enclosure.

Reviewed by signature:

Test No: 2- Continuous immersion subject to agreement (IP X8)

Environment Conditions:

(1) Ambient temperature = 26.8°C and Relative Humidity= 57.2%
(2) Fresh water temperature = 20.2°C

Master Equipment and Calibration details:

Sr. No.	Test Equipment	UL Equipment ID	Calibration Status (Valid Up to)
1	Water Tank	WT 02	Support Equipment
2	Stop Watch	DSW06	04/07/2019
3	Measuring Tape	MT05	03/10/2019

Test Method Adopted:

- The sample was tested according to the clause number 14.2.8 of IEC 60529:2013-08.
- The sample shall be in a clean and new condition, with all parts in place and mounted as per Manufacture instruction inside the water tank.
- The Sample was tested 5 feet from the surface of the water.
- The Sample was immersed for 30 min in water
- The sample was visually examined post IP X8

Test Observation:

Observation:

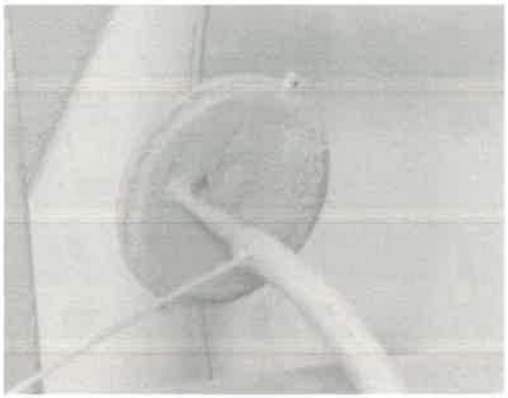
The protection was satisfactory on inspection, as no water/water droplets was found inside the Enclosure.

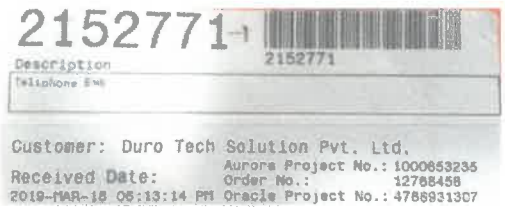
Reviewed by signature:

Appendix

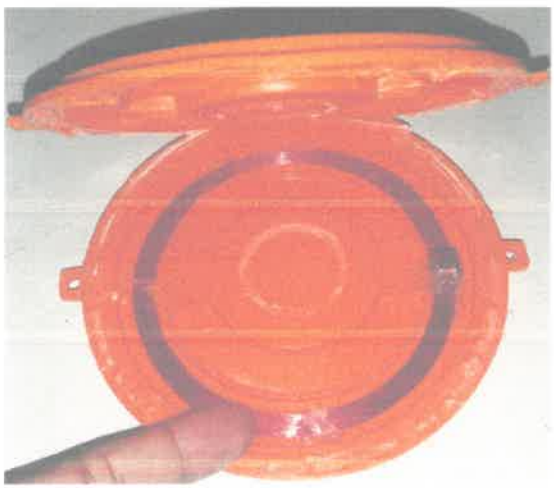
Photographs

Sample Information
Post IP 6X





Sample ID



Post IP X8

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

UL INDIA PVT. LTD. Gurgaon-122001

Reviewed by Signature: