



## Introduction

**"A customer is the most important visitor on our premises. He is not dependent on us. We are dependent on him. He is not an interruption in our work. He is the purpose of it. He is not an outsider in our business. He is part of it. We are not doing him a favour by serving him. He is doing us a favour by giving us an opportunity to do so." (Mahatma Gandhi)**

Friends we attribute our success to the strong relationship that we mutually share. Yes, no doubt the times is unprecedented and eventually urges for unprecedented measures. During this time of uncertainty our organisation is closely monitoring developments regarding the spread of the Coronavirus. We feel very concerned for the well-being of our employees and business partners. Internal measures to ensure health safeness will be strictly implemented as our topmost focus remains a safe work environment.

The objective of this communication is to inform you of our new voluntary initiatives looking at advance system for the betterment of the Mauritian community. As such, the impact of technological change in industries have been significant during the previous decades, and technological advancement has no doubt sharpen industries abilities for continuously improving with new and modern methods and techniques.

Our quest for leading the path as regards to innovative solutions has been in our culture for years. This consistent crave for continuously improving for the industry in which we work today gave way to new solutions and achievements that we wish to highlight. It is a fact that the world is continuously evolving and we must look ahead to prepare ourselves for tomorrow today. Amidst this, we are always looking ahead with creativity for new ideas as we create and deliver together better solutions.

## Innovation

### Accomplishment 1:

#### Lead-Free PVC-u Pipes

PPP Piping Systems Ltd is the only company in Mauritius who has voluntarily adopted the banning of lead-based stabilisers in the manufacturing of PVC-u pipes in line with the European Voluntary Commitment Program for sustainable development of the PVC industry. We have completed our commitment one year ahead of the target and since 2015 our manufacturing process use only lead-free ingredients not containing any SVHCs, even in the absence of local regulations.

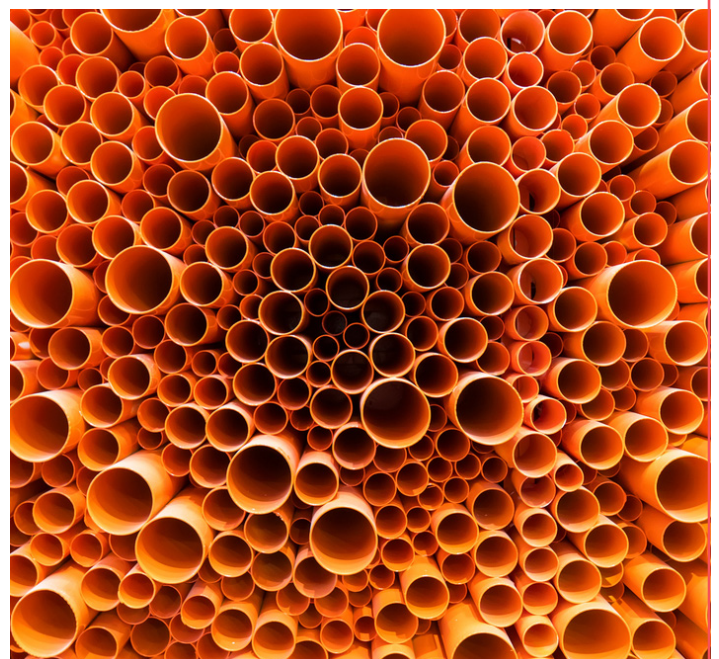
Our PVC-u pipes for pressure and non-pressure application are regularly third party verified and tested by Mauritius Standards Bureau for extractable heavy metals including of lead, cadmium, mercury, etc. Lead Content in our non-pressure PVC-u pipes has been tested also by CSTB, France.

In line with our environmental policy on sustainable use of environmentally friendly raw materials and ingredients in the manufacturing process and reducing the health risk at work place is a core part of our Health & Safety and Environmental Management System.

### General Knowledge

PVC resin is blended with various additives, such as calcium carbonate and stabilisers, to form a compound for the manufacture of PVC-u pipes. Lead-based stabilisers having excellent processing performance were intensively used in the PVC compounding until it was identified as Substances with Very High Concern (SVHC). Lead and its compounds are widely considered as hazardous for human health and the environment. Lead is an SVHC and its uses are restricted under REACH Annex XVII. Lead has been shown to leach into drinking water from PVC-u pipes and major contributing factors to groundwater pollution.

Workers in this sector are regular exposed to the use of lead-based chemicals, the handling of which may cause lead poisoning. Blood lead level testing of workers involved in the PVC manufacturing industry is a must where mixing the product in powder form can be inhaled.



# Innovation

## Accomplishment 2:

### CSTB Test Report – PVC Pipes Discharge Group

Our PVC-u pipes for Discharge Group complying with the EN 1329 for solid-wall pipes and EN 1453 for structured-wall pipes, ranging from 32mm to 200mm has been successfully tested at CSTB, France (Test Report no. 593 DEM19/537).

The CSTB Test Report attests to the performance of our pipes with regards to the applicable EN standards. This voluntary process ensures the quality of our product and give confidence in our established manufacturing processes and monitoring systems in line with our Quality Management Systems.

This sign of quality builds trust in our products and compliments our 8 Products MAURICERT Certification Marks. This differentiates our products on the market and facilitates the choice.



## General Knowledge

The Centre Scientifique et Technique du Bâtiment (CSTB) is the French national organisation providing research and innovation, consulting, testing, training and certification services in the field of construction industry. This prestigious institution is the reference with regards to testing of building materials. The mission of the CSTB is to ensure the quality and safety of buildings.



# Environmental

## Accomplishment 3: SILENT-FLOW PVC-u Pipes

Silent-Flow PVC-u pipe is the latest technological innovation in sound insulation systems. PPP Piping Systems Ltd has invested in state-of-the-art equipment and new manufacturing processes to produce pipe designed to reduce the noise generated during the evacuation of wastewater, rainwater and general drainage. Silent-Flow pipe is intended for buildings that place great importance on a noise-free environment for residents.

Advantages of this system:

- Excellent acoustic performance: 15 dB (A) at a flow rate of 2 l/s in compliance with EN 14366.
- All materials comply with REACH and RoHS directives and are heavy-metal free.
- Compatible with all other conventional pipes in accordance with EN 1329 & EN 1453.
- Silent-Flow Pipes are supplied with Silent-Flow Fittings and accessories.
- Recyclability: Silent-Flow pipes is recyclable at end-of-life making it an environmental-friendly products.

### General Knowledge

Premium construction projects like luxurious hotels, villa, apartment and hospital where noise insulation along with good mechanical properties are essential requirements, conventional pipes do not fulfil the requirements. Specially designed noise-free pipes are prerequisite for high-rise building constructions where residents' comfort are taken into consideration at the design stages.

