**Title; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_GoPro Usage for lime injection optimization\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Contact Person: (Optional) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Contact Details: (Optional)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Background/Problem:**

The plant was having problems getting good utilization of lime injection system. This resulted in high usage of lime at a high cost.

**Investigation:**

The injection system of the lime was felt to be a problem.

**Solution:**

A GoPro camera was installed behind a small window in the duct work where the camera could film the injection point. A spotlight was added a little distance from the camera to add light inside the duct.

The camera demonstrated that the injection point was sub-optimal with lime only being injected in half the duct,

Using the camera the injection location could be optimized reducing the lime consumption by half.

**Photo / Diagram:**