

Location: Pune (India)

Local Partner: SV Agri

Company: Restrain

Key People: Dirk Garros, Anshul Batwara, Kaushik Malpani.

### **Overview:**

In the first week of May 2016, a lot of 14MT of Onions was identified at the farmer's field. The lot was divided into two sections of 7 MT each – one lot was treated with ClO<sub>2</sub> granules from ICA-TriNova LLC and the other lot was kept without ClO<sub>2</sub>. Granules were integrated into the pile during house loading.

Both the lots were then stored in traditional Indian Onion Storage Structure.

### **Comparison Treated Vs Non-Treated (After 13 weeks of Storage)**

#### **1. Physical Appearance – colour:**

Treated Onions have retained a better color.



#### **2. Analysis of Random Sample.**

Random Sample for both treated and un-treated onion was drawn from the field.

a. ClO<sub>2</sub> Treated Onions :



Total Sample Size : 6991 grams

S. No	Description	Weight ( in Grams)	% of Weight
1	Good Quality	4191	59.9%
2	Smut And Bacteria	1825	26.1%
3	Rottage	975	14%
Total		6991	100%

It was clearly visible that the spread of Smut was controlled because of the treatment.

b. Un-Treated Onions :



Total Sample Size : 5926 grams

S. No	Description	Weight ( in Grams)	% of Weight
1	Good Quality	2401	40.5 %
2	Smut And Bacteria	1761	29.7 %
3	Rottage	1764	29.8 %
Total		5926	100%

3. Rottage :



4. Smut :



## Project: Trials with ClO<sub>2</sub> for Onion Storage

