

# How Safe are your Veggies Project

December, 2016

## Green chilli

**Fifty Green Chilli** samples were collected randomly in the month of **December, 2016** from the markets in the areas of, Gudimalkapur, Mehedipatnam, Banjara Hills, Mylardevpalli, Shaaheen nagar, Pedda Golconda (Barkas) and Shamshabad.

The samples were analyzed for pesticide Residues using validated method with confirmatory analysis on GC-MS/MS at 10 ppb (parts per billion) level.

Out of 50 samples, 25 samples were found contaminated with **7 pesticides** residues (Table 1) and **7 samples** are above the FSSAI, MRL (Table 2).

Table 1: Details of Pesticide detected in Green Chilli

Sl. No.	Name of the pesticide	Recommended / non-recommended	Name of the Formulation	FSSAI MRL, mg/Kg	CODEX MRL, mg/Kg
1.	Bifenthrin	Non Recommended	-	NA	NA
2.	Deltamethrin	Recommended	Deltamethrin 2.8% EC	0.05	NA
3.	Fipronil	Recommended	Fipronil 5% SC	0.001	NA
4.	Hexaconazole	Recommended	Hexaconazole 2% SC	0.50	NA
5.	Lambda cyhalothrin	Recommended	Lambda-Cyhalothrin 4.9% CS, Lambda-Cyhalothrin 5% EC	0.05	NA
6.	Profenofos	Non Recommended	-	-	3.00
7.	Triazophos	Non Recommended	-	0.20	NA

\*NA – Not available

Table 2: Details of Green Chilli samples which are above MRL

Sl. No.	Sample Collection Point	Sample Name	Name of the pesticide	Residues, mg/Kg	FSSAI MRL, mg/Kg	CODEX MRL, mg/Kg
1.	Banjara Hills	Green Chilli-6	Fipronil	0.01	0.001	NA
			Lambda cyhalothrin	0.08	0.05	NA
2.	Banjara Hills	Green Chilli-7	Fipronil	0.02	0.001	NA
			Lambda cyhalothrin	0.07	0.05	NA
3.	Banjara Hills	Green Chilli-8	Fipronil	0.01	0.001	NA
			Lambda cyhalothrin	0.07	0.05	NA
4.	Mylardevpalli	Green Chilli-19	Fipronil	0.01	0.001	NA
5.	Shaaheen nagar	Green Chilli-27	Fipronil	0.01	0.001	NA
6.	Shamshabad	Green Chilli-40	Deltamethrin	0.31	0.05	NA
7.	Shamshabad	Green Chilli-43	Triazophos	0.38	0.20	NA

\*NA - Not available