

HOW SAFE ARE YOUR VEGGIES PROJECT

May, 2018

Fourteen **cauliflower samples** were collected randomly in the month of May, 2018 from the markets in the areas of Mehdiapatnam and Shamshabad, Hyderabad market.

The samples were analyzed for pesticide residues using validated method with confirmatory analysis on GC-MS/MS and LC-MS/MS at 10 PPB (Parts per Billion) level.

Out of fourteen (14) samples analysed ten(10) samples found contaminated with six pesticides residues (Pretilachlor, Acetamiprid, Bifenthrin, Thiamethoxam, Chlorantraniliprole and Fenpropathrin)(Table-1). Among all only one sample (RS1/314/18-19) found to have pesticide **Bifenthrin** above CODEX MRLs but not FSSAI MRLs.

Table-1: Details of pesticides detected in cauliflower samples

Sl. No	Collection Point	Sample code	Pesticides Detected	Recommended/ Non recommended	Residues (mg/kg)	FSSAI MRL (mg/kg)	Codex MRL (mg/kg)
1	Mehdiapatnam	RS1/282/18-19	Pretilachlor	Non recommended	0.04	-	-
2	Shamshabad	RS1/306/18-19	Acetamiprid	Non recommended	0.11	-	0.40
3	Shamshabad	RS1/307/18-19	Acetamiprid	Non recommended	0.21	-	0.40
4	Shamshabad	RS1/308/18-19	Acetamiprid	Non recommended	0.12	-	0.40
5	Shamshabad	RS1/309/18-19	Acetamiprid	Non recommended	0.04	-	0.40
			Bifenthrin	Non recommended	0.01	-	0.40
6	Shamshabad	RS1/310/18-19	Bifenthrin	Non recommended	0.02	-	0.40
7	Shamshabad	RS1/311/18-19	Thiamethoxam	Non recommended	1.21	-	5.00
			Bifenthrin	Non recommended	0.30	-	0.40
8	Shamshabad	RS1/312/18-19	Thiamethoxam	Non recommended	0.21	-	5.00
			Chlorantraniliprole	Non recommended	0.06	-	2.00
			Bifenthrin	Non recommended	0.05	-	0.40
9	Shamshabad	RS1/313/18-19	Thiamethoxam	Non recommended	0.84	-	5.00
			Bifenthrin	Non recommended	0.33	-	0.40
10	Shamshabad	RS1/314/18-19	Thiamethoxam	Non recommended	2.17	-	5.00
			Acetamiprid	Non recommended	0.01	-	0.40
			Bifenthrin	Non recommended	0.69	-	0.40
			Fenpropathrin	Non recommended	0.47	-	-