

### OFT-1

1.	Title of On farm Trial	<b>Control of fruit fly in Bitter Gourd</b> through different method in kharif season
2.	Problem diagnosed	Low production of fresh Bitter Gourd due to heavy attack of fruit borer
3.	Details of technologies selected for assessment/refinement	<b>Farmers practice:</b> Spraying of Endosulfan @ 2ml/lit of water <b>Technology Option-I:</b> Use of poison bait (Gur 100 gm + wheat bran 200 gm + 20 ml Novaluron + 200 ml water). <b>Technology Option-II:</b> Spraying of Flubendiamide 39.35 EC @ 0.3 ml/ lit of water.
4.	Source of Technology	ICAR research bulletin
5.	Production system and thematic area	Rice – Vegetable-fellow,
6.	Performance of the Technology with performance indicators	Technology option –II showed best result in relation to the yield of fresh veg. efficiency of control the pest and B:C ratio.
7.	Final recommendation for micro level situation	It is may be recommended that the Technology option –II may be accepted for control of the pest and better fresh yield and income
8.	Constraints identified and feedback for research	Lake of knowledge about the appropriate pesticide & its dose, more research needed for refinement
9.	Process of farmers participation and their reaction	Collaborative, Farmers are happy with the performance of recommended practice

**Thematic area:** *Pest Management*

**Problem definition:** Low production of fresh Bitter Gourd due to heavy attack of fruit borer

**Technology assessed:** Control of fruit fly in Bitter Gourd through different control measures in kharif season by Spraying of Flubendiamide 39.35 EC @ 0.3 ml/ lit of water.

**Table: 2 Performance of yield and Control of fruit fly in Bitter Gourd through different control measures in kharif season**

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Av. No. of fresh fruit / Plant	% of pest infestation	% of more yield than Farmers Practice						
<b>F P:</b> Spraying of Endosulfan @ 2ml/lit of water	10	66.82	33.23	-		160.9	147250/-	241650/-	94400/-	1.64
<b>T O-I:</b> Use of poison bait (Gur 100 gm + wheat barn 200 gm + 20 ml Novaluron + 200 ml water).		88.26	14.21	14.09		170.3	155320/-	278220/-	122900/-	1.79
<b>T O-II:</b> Spraying of Flubendiamide 39.35 EC @ 0.3 ml/ lit of water.		106.71	10.51	21.42		191.6	158730/-	293650/-	134920/-	1.85
SEm( ± )		3.4367	2.16032			4.3584				
CD (5%)		7.66	4.81			9.71				

**Results:** KVK Paschim Medinipur conducted an On Farm Trial on Control of fruit fly in Bitter Gourd through different method in kharif season. From the result it is clear that the performance of **TO2** (Spraying of Flubendiamide 39.35 EC @ 0.3 ml/ lit of water ) was far better than **F P**( Spraying of Endosulfan @ 2ml/lit of water) and **T O-I:** Use of poison bait (Gur 100 gm + wheat barn 200 gm + 20 ml Novaluron + 200 ml water). The % of pest infestation of TO2 *ie.*10.51 was lower than TO1 *ie.* 14.21 and FP *ie.* 33.23 and the yield of TO2 *ie.*191.68 q/ha. was higher than TO1 *ie.* 170.34 q / ha. and FP *ie.* 160.9 q / ha.