

## OFT – 1 (F.Y. 2024-25)

Discipline: Plant Pathology

- **Thematic area: IDM**
- **Problem definition/Name of OFT: Management of False Smut *Ustilaginoidea virens* (Cooke) in Rice**

1.	Title of On farm Trial (OFT)	<b>Management of False Smut <i>Ustilaginoidea virens</i> (Cooke) in Rice</b>
2.	Problem diagnosed	Yield Loss due to False smut of Rice
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<b>Control – Farmers’ Practice</b> - Seed Treatment with Carbendazim 50 WP <b>T.O. I</b> – Two sprays of Propiconazole 13.9% + Difenoconazole 13.9% EC @ formulation 500 ml/ha <b>T.O. II</b> – Two sprays of Trifloxastrobin 25% + Tebuconazole 50 % @ formulation 200 ml/ha. <b>T.O. III</b> – Two sprays of Fluopyram 17.7 + Tebuconazole 17.7 SC @ formulation 500 ml/ha.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	G B P Uni. & Tech. Pantnagar
5.	Production system and thematic area	Rice-wheat, IDM
6.	Performance of the Technology with performance indicators	(i) Technical indicator (Disease incidence (%), Yield, Test weight) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) (iii) Farmer perception
7.	Final recommendation for micro level situation	T.O.II (Two sprays of Trifloxastrobin 25% + Tebuconazole 50 % @ formulation 200 ml/ha)
8.	Constraints identified and feedback for research	Lack of knowledge in disease & fungicides
9.	Process of farmers participation and their reaction	Farmers prospectives from Field visit & training.

**Results with Table and good quality photographs in jpg.**

Thematic area	Technology options with detailed treatments	Area (ha)		Disease incidence (%)	Yield (q/ha)	Test wt. (1000 grain wt.)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Proposed	Actual							
IDM	Control – FP	0.2	0.2	26.24	48.54	23.42	61490	115842	54352	1.89
	T.O. I	0.2	0.2	7.23	53.06	24.13	65190	127038	61848	1.95
	T.O. II	0.2	0.2	2.10	56.30	24.76	65840	134690	68850	2.04
	T.O. III	0.2	0.2	5.32	54.45	24.65	65380	130335	64955	1.99

Please provide all the OFTs in same format Photographs in jpg. (Attach separately also with captions)