FORMA	T – I – EXTENDED ABSTRACT
GUIDELINES	SAMPLE - EXTENDED ABSTRACT
SECTION OF EXTENDED ABSTRACTS 1. Theme area Check the conference theme areas and give the area which best describes the topic of your presentation	Theme area: Regenerative Agriculture
 2. Title: Upper/lower case, genus and species in italics. Example: Monitoring the American Bollworm (<i>Helicoverpa armigera</i>) in Bt cotton. 	
3. Author(s) name(s) and affiliation(s): Authors name(s) bold and affiliations normal font in italics.	Authors: Vijay Kumar, Jagdish Arora¹ and Gurpreet Kaur Department of Entomology, Punjab Agricultural University, Ludhiana-141 004, India ¹ Regional Research Station, Abohar

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address it should be inserted in the	
footnote after affiliation	
5. Keywords: 4-5 words alphabetically	Keywords: IPM, Whitefly, Cotton, Punjab, Impact
6. Background: Maximum upto 100 words only	1. Background Bt cotton is provides protection against bollworms but it does not provide resistance against sucking insect pests. Among these sucking insect pests like whitefly, leafhopper, thrips, etc. cause economic damage to cotton. Whitefly, <i>Bemisia tabaci</i> (Gennadius) appeared in epidemic form in Punjab during <i>kharif</i> 2015. Consquently, the cotton productivity in the Punjab state fell substantially from 574 kg lint/ha in 2014-15 to only 197 kg lint/ha in 2015-16 (Kumar et al 2020). The indiscriminate use of insecticide, tank mixtures with synthetic pyrethroids has aggravated the problems of whitefly. Therefore, a special attention is required to promote the IPM technologies on Bt cotton. The focus of an IPM programme was on use of
7. Materials and methods: 100-200 words	non-chemical and to promote the judicious use of insecticides based on economic threshold level (ETL) to reduce insecticide load in the cotton agroecosystem.
	2. Material and methods
	Under the project, Bathinda, Mansa, Sri Muktsar Sahib and Fazilka districts, covering 80 per cent of cotton growing areas were selected for dissemination of IPM technology during 2018-19. In all eight villages were adopted. The area under cotton in the IPM adopted farmers was 1625 acre. The numbers of farmers involved were 160. In each adopted villages, literature on cotton production and protection technology was distributed to the farmers at their doorstep. Farmers training programme were organized at regular interval.

8. Results and conclusion with 1-2 tables/figures: 200-250 words (excluding tables/figures) – Total number of figures/tables should not exceed 2

The IPM strategy included regular surveillance of whitefly on alternate hosts, clean cultivation, timely sowing, use of non-chemical approaches like yellow sticky traps, neem based insecticides, use of insect growth regulators based on ETL, proper spray methodology etc. IPM farmers were compared with non-IPM farmers and impact of adoption of IPM on socio economic status of farmers was studied.

3. Results and conclusion

In Punjab, the average number of insecticide sprays for IPM adopted farmer was 5.51. However, it was 6.75 in non-IPM farmers (Table 1). There was 18.37 per cent reduction in number of sprays over non-IPM farmers. The mean cost of sprays was more in non-IPM farmers (Rs 3469) as compared to the adopted IPM farmers (Rs 3225). However, per cent reduction in cost of sprays was 7.03 per cent over non-IPM. In IPM project area, maximum numbers of sprays were for the control of whitefly and jassid. Seed cotton yield was higher (9.91 q/acre) in adopted IPM farmers as compared to non-IPM farmers (8.94 q/acre). The average net profit was more (Rs. 47283) in the IPM farmers as compared to non-IPM (Rs. 37777).

District	Area under	Number of insecticide	Cost/ acre	Yield (q/acre)	Cost of input	Cost of farm operation	Cost of cultivation	Gross return	Net return
	cotton	sprays	(Rs)		(Rs/acre)	(Rs/acre)	(Rs/acre)	(Rs)	(Rs)
				IPM adop	ted farmers				
Mansa	452	5.68	3150	10.52	6525	8250	14775	65750	50975
Muktsar	344	5.33	2960	9.56	6615	7250	13865	59750	45885
Bathinda	383	5.51	3295	9.82	6480	7150	13630	61375	47745
Fazilka	446	6.15	3493	9.72	6730	9620	16350	60750	44400
Mean/Total	1625	5.51	3225	9.91	6588	8068	14655	61938	47283
				Non-IPI	M farmers	-			
Mansa	197	7.11	3365	9.20	6822	8850	15672	55200	39528
Muktsar	144	6.60	3415	9.12	7550	7560	15110	54720	39610
Bathinda	283	6.15	3450	8.54	7520	7490	15010	51240	36230
Fazilka	132	7.15	3644	8.90	7450	10210	17660	53400	35740
Mean/Total	756	6.75	3469	8.94	7336	8528	15863	53640	37777

9. References References Maximum 2 (For sample follow the style Kumar V, Kular JS, Kumar R, Sidhu SS and Chhuneja PK 2020. Integrated whitefly [Bemisia tabaci (Gennadius)] management in Bt cotton in north India: An agroecosystem-wide community based of the Indian Journal of Ecology for approach. Current Science 119(4): 618-624. references https://indianecologicalsociet y.com/society/guidelines-for-authors/). Font Type & Size 10. a. Whole abstract in Times New Roman b. Text font size 11 c. **Double spacing** throughout the text except tables d. Theme area/Topic: 11 normal. e. Title: 13 bold f. Author name(s): 11 bold g. Institution/ affiliation: 11 italics (Not bold) h. Headings - 11 bold. i. Use grammar and spell-check.

Word Limit for complete abstract - Not more than 500-650 words, including references
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Note: Abstract and full-length articles should report the results of the original research not previously published or submitted for publication elsewhere. Strictly follow the author guidelines for ABSTRACT (word count, font size, formatting and references).