ANNEX 4: DATA SHEET TO RECORD POLLINATOR DENSITY ON PLOTS IN AN ORCHARD WITH POLLENIZER PLANTS

Density of insect pollinators in open pollinated flowers (scan sampling)

COUNTRY: **INDIA** SITE : **MOHAL, KULLU** FOCUS CROP : **APPLE (*Malus x domestica*)** YEAR :

					RECORDING CONDITIONS						NUMBER OF FLOWER VISITORS						
											HONEY BEES		OTHER BEES		DRONE FLIES (Syrphidae)	OTHER	
Orchard number & size (ha)	**Location**	**TREATMENT**	**Date & observer**	**Recording number**	**Time at start**	**Period**	**Weather conditions**	**Tree type***	**Plot number** (2 adjacent trees / plot**)	**Number of open flowers surveyed**	***Apis cerana***	***Apis mellifera***	**Bumble bees**	**other wild bees**			**Remarks**
1 to 10		Honey bee colonies brought or present or not*		1, 2, 3, 4	1000–1230 h or 1330–1600 h	Morning or Afternoon	Sunny, overcast, wind level, (intantaneous temperature if available)		**1** or **2** or **3** or **4**		**scan sampling** : the insect(s) must be present at the very time when the flower is first seen						
				0 ≈ prior to colony introduction *(if applicable)*				production	1	250							
								pollenizer	1	250							
								production	2	250							
								pollenizer	2	250							
								production	3	250							
								pollenizer	3	250							
								production	4	250							
								pollenizer	4	250							
				1				production	1	250							
								pollenizer	1	250							
								production	2	250							
								pollenizer	2	250							
								production	3	250							
								pollenizer	3	250							
								production	4	250							
								pollenizer	4	250							

* Indicate the number of colonies of *Apis cerana* and/or *Apis mellifera* nearby the study orchard & whether these colonies were present or introduced at onset of flowering

SHEET NUMBER ___

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					RECORDING CONDITIONS						NUMBER OF FLOWER VISITORS						
											HONEY BEES		OTHER BEES		DRONE FLIES		
Orchard number & size (ha)	**Location**	**TREATMENT**	**Date & observer**	**Recording number**	**Time at start**	**Period**	**Weather conditions**	**Tree type***	**Plot number** (2 adjacent trees / plot**)	**Number of open flowers surveyed**	***Apis cerana***	***Apis mellifera***	**Bumble bees**	**other wild bees**	(Syrphidae)	**OTHER**	**Remarks**
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				2				production	1	250							
								pollenizer	1	250							
								production	2	250							
								pollenizer	2	250							
								production	3	250							
								pollenizer	3	250							
								production	4	250							
								pollenizer	4	250							
				3				production	1	250							
								pollenizer	1	250							
								production	2	250							
								pollenizer	2	250							
								production	3	250							
								pollenizer	3	250							
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				4				production	1	250							
								pollenizer	1	250							
								production	2	250							
								pollenizer	2	250							
								production	3	250							
								pollenizer	3	250							
								production	4	250							
								pollenizer	4	250							

SHEET NUMBER ___