

OFT-12 (Animal Science)

- Thematic area: Animal Disease management
- Problem definition/Name of OFT: Repeat breeding

1.	Title of On farm Trial (OFT)	Effect of herbal mixture on repeat breeding in Dairy animal																																											
2.	Problem diagnosed	Repeat breeding																																											
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- Deworming & Mineral mixture TO ₁ –FP + 1 st injection of Buserelin 20 ug (5ml) I/M, 6 h before the AI and 2 nd on day 12 after last insemination TO ₂ – FP + Curry leaves (50 g), Turmeric powder 95 g), Radish (1), Moringa leaves (100 g), Alovera pulp (100 g), Cissus stem (100 g), Jaggery 9100 g) and salt (25 g)																																											
4.	Source of Technology	DR. RPCAU Pusa																																											
5.	Production system and thematic area	Livestock production and management																																											
6.	Performance of the Technology with performance indicators	<table><tr><td colspan="2">Table :</td></tr><tr><td>Treatment</td><td>No. of animal coceived</td><td>Milk production (in lit)</td><td>Total cost of food treatment, animal</td><td>Gross income</td><td>Net income</td><td>B:C</td></tr><tr><td>FP- Deworming & Mineral mixture</td><td>5</td><td>1260</td><td>18000</td><td>63000</td><td>45000</td><td>3.5</td></tr><tr><td>TO₁ –FP + 1st injection of Buserelin 20 ug (5ml) I/M, 6 h before the AI and 2nd on day 12 after last insemination</td><td>7</td><td>1470</td><td>19200</td><td>73500</td><td>54300</td><td>3.82</td></tr><tr><td>TO₂ – FP + Curry leaves (50 g), Turmeric powder 95 g), Radish (1), Moringa leaves (100 g), Alovera pulp (100 g), Cissus stem (100 g), Jaggery 9100 g) and salt (25 g</td><td>9</td><td>1722</td><td>20100</td><td>86100</td><td>66000</td><td>4.28</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							Table :		Treatment	No. of animal coceived	Milk production (in lit)	Total cost of food treatment, animal	Gross income	Net income	B:C	FP- Deworming & Mineral mixture	5	1260	18000	63000	45000	3.5	TO ₁ –FP + 1 st injection of Buserelin 20 ug (5ml) I/M, 6 h before the AI and 2 nd on day 12 after last insemination	7	1470	19200	73500	54300	3.82	TO ₂ – FP + Curry leaves (50 g), Turmeric powder 95 g), Radish (1), Moringa leaves (100 g), Alovera pulp (100 g), Cissus stem (100 g), Jaggery 9100 g) and salt (25 g	9	1722	20100	86100	66000	4.28							
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7.	Final recommendation for micro level situation	FP + Curry leaves (50 g), Turmeric powder 95 g), Radish (1), Moringa leaves (100 g), Alovera pulp (100 g), Cissus stem (100 g), Jaggery 9100 g) and salt (25 g) better performance as compared to farmers practices.																																											
8.	Constraints identified and feedback for research	1. Knowledge gap 2.Difficulties in accessing the animal hospital/ Doctor																																											
9.	Process of farmers participation and their reaction	1. Participatory and interactive 2. On field training 3. Regular field visit and feedback																																											

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

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Yield (lit)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Proposed	Actual					
Animal Disease management	FP- Deworming & Mineral mixture	10	10	1260	18000	63000	45000	3.5
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