

## Project Implementation

S/ N o	Period	Activities	Person Responsible	Milestone indicators
1	1 <sup>st</sup> Quarter (1-3 months)	<ol style="list-style-type: none"> <li>1. Coordination meeting</li> <li>2. Launching of Research Project</li> <li>3. Selection and preparation of experimental sites and o farmers' fields</li> </ol>	Project Coordinator Project team MTHE Team  Private Sector	1. Project team convened 2. Project launched 3. Experimental sites identified and prepared
2	2 <sup>nd</sup> Quarter (4-6 months)	<ol style="list-style-type: none"> <li>4. Collection and Identification of Key pests and natural enemies on experimental sites</li> <li>5. Cage experiment for assessment of insect damage to host plants</li> <li>6. Experiment functional and Numerical Response of Natural Enemies</li> </ol>	Team members  Project Team Member  Project Team	4. Insects and natural enemies collected and identified . 5. Damage type identified 6. Data on Mortality and survivorship generated  7. Data generated on Functional & Numerical Response
3.	3 <sup>rd</sup> Quarter (7-9 monthsh	<ol style="list-style-type: none"> <li>7. Scouting orchards and plantations for fungal infected cadavers</li> <li>8. Spore isolations, extraction of bioactive ingredients and characterization</li> </ol>	Project Team  Consultant (mycologist)	8. Virulent fungal strains  Fungal spores characterized  Data generated on virulent spores
4	4 <sup>th</sup> Quarter (8-12 months	<ol style="list-style-type: none"> <li>9. Greenhouse and Field Evaluation of isolated spores on target pests</li> <li>10. Evaluation of Selected predators and parasitoids in greenhouse on vegetable crops</li> </ol>	Project Team  Private Sector Team	Virulent spores tested Predators and parasitoids tested
<b>2<sup>nd</sup> Year</b>				
5	1 <sup>st</sup> Quarter (13-15 Months)	<ol style="list-style-type: none"> <li>11. Mass rearing of selected predators and parasitoids</li> </ol>	Project Team	Natural Enemies reared

			Private Sector Team	
		12 Field release of predators and parasitoids on selected crops on farmers field	Project Team Private Sector Team	Natural Enemies Evaluated
<b>6</b>	2 <sup>nd</sup> Quarter (16-18months )	Greenhouse evaluation of fungal spores	Project Team Private Sector Team	Fungal spores Evaluated
<b>7</b>	3 <sup>rd</sup> Quarter (19-21 months	Post-field and greenhouse evaluation of Natural Enemies (Predators, Parasitoids	Project Team Private Sector Team	Effectives of Biological Control Agents evaluated
<b>8</b>	4 <sup>th</sup> Quarter (19-21)	Seminar Workshop Report Writing & Submission	Project Team Mistry of Education Team	Reports submitted

#### Assumptions

1. Natural Enemies predators, parasitoids and entomopathogenic fungi are collected and identified
2. Relevant equipment are available for research activities
3. Consultants specifically mycologist and taxonomist are available for spore isolation , classification of species and development of bio-pesticides
4. Private Sector and pubic sectors are readily available for collaboration in promotion of biological control program