

BIRDS – SPACC Project
PROJECT RESULTS FRAMEWORK

Project Strategy	Objectively Verifiable Indicators			Sources of Verification	Assumptions
	Indicator	Baseline value	Target value and date		
Global Environmental Objective: Establish a knowledge base for large-scale intervention on climate change adaptation					
<p>Project Development Objective (Impact):</p> <p>Knowledge and capacities of communities in pilot Hydrological Units in Andhra Pradesh, India are strengthened to respond to climate change impacts</p>	<p>Impact Indicators:</p> <p>No Hidrological Units (HU) where CBOs incorporate monitoring of climate variability and adaptation measures in Sustainable Land and Water Management (SLWM) practices; average crop yields; and soil moisture availability and organic carbon content</p>	<p>Communities in pilot HUs discuss ways and means of sustaining groundwater resources; make informed decisions on groundwater utilization; have institutionalized hydrological monitoring, crop-water budgeting and farm level action; and Governmental and Non Governmental agencies at national and international level take advantage of the learning from farmer managed groundwater systems approach. However, there is no knowledge on and monitoring of climate change and its impacts on land, water and crop production and integration of adaptation measures in SLWM practices.</p>	<p>CBOs in 63 HU are incorporating adaptation measures in SLWM; Average crop yields and soil moisture availability and organic carbon content maintained or increased in pilot HU 5 years after project termination.</p>		<p>There is a functional cohesion between communities, government and NGOs</p> <p>Institutional framework among farming communities is bereft of adverse change of policy of government</p> <p>Rural populations are capable of understanding, monitoring and taking action to counter climate change impact</p>
Outcome 1: Information tools and local institutional capacities developed for farmers and CBOs to make informed decisions on land and water management based on scientific and local knowledge, taking into account impacts of climate variations					

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<p>Output 1.1:</p> <p>Completed study on local and scientific knowledge on impacts of climate variability/change on natural resources in Andhra Pradesh</p>	<p>Sample size (distributed by gender, vulnerable groups/sectors) and number of sample locations and variables included in farmer survey.</p> <p>Review of scientific historic data and predictions on climate variability and impact indicators</p>	<p>There is no documented and integrated understanding of local and scientific knowledge on impacts of climate variability/change on natural resources in Andhra Pradesh</p>	<p>At least 450 farmers interviewed with balanced representation of gender and vulnerable groups/sectors in at least 9 pilot HU covering key indicators on climate viability and its impact.</p> <p>Farmers understanding of climate change in pilot HUs documented and combined with available scientific data, 9 months from project start.</p>	<p>Final study document and climate change impact database</p>	
<p>Output 1.2:</p> <p>Local monitoring system of climate variability and its impacts operating</p>	<p>Number of CBOs in HUs conducting systematically monitoring and number of indicators monitored and incorporated in climate change</p>	<p>There is no systematic monitoring of climate variability and its impacts</p>	<p>At least 9 CBOs in pilot HU are collecting data on at least 3 key indicators by the end of the second project year</p>	<p>Data collected by farmers and climate change database systematically updated</p>	

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	databases accessible by CBOs				
Output 1.3: CBOs with capacities to integrate climate variability adaptation measures in Sustainable Land and Water Mangement (SLWM)	<p>Number of CBOs that have established climate change adaptation committees</p> <p>Number of CBO leaders and representatives trained in climate variability monitoring and adaptation measures integrated in SLWM</p> <p>Number of CBOs participating in identification of adaptation measures with agricultural scientists</p> <p>Number of CBOs with a local climate change adaptation plan</p>	The CBOs have been trained in and are managing ground water resources in 9 HU in Andra Pradesh. However, climate viability impacts are not well understood and included in an integrated SLWM approach. The baseline for all the included indicators is zero.	<p>At least 9 committees 6 months after project start</p> <p>At least 100 leaders and representatives trained by the end of year two</p> <p>At least 9 CBOs have participated and identified measures 18 months after project start</p> <p>At least 7 CBOs have adaptation plans 18 months after project start</p>	<p>Committee meeting minutes</p> <p>Lists of participants in training workshops</p> <p>Report on identified SLWM measures and technologies</p> <p>Adaptation Plans signed by CBO leaders</p>	

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Outcome 2: Pilots on SLWM including climate variability adaptation in farming systems in drought prone areas					
<p>Output 2.1:</p> <p>Farmers acquire skills in managing climate variability and testing adaptation technologies in farming systems through participation in Climate Change Schools (CCS)</p>	<p>Curriculum developed for CCS with focus on adaptation in drought-prone areas including methods on identification and field testing of adaptation measures</p> <p>Number of functioning CCS</p> <p>Number of farmers attending CCS and disseminating best experimental practices for adaptation measures</p>	<p>Farmers knowledge and skills focused on hydrological parameters only</p>	<p>Curriculum developed 18 month after project start</p> <p>At least 7 CCS functioning by the end of the project</p> <p>At least 350 female and male farmers attending by the end of the project</p>	<p>CCS Curriculum</p> <p>Training Calendar</p> <p>Training Report</p> <p>Feedback Form</p> <p>Data Record</p> <p>Ballot Box Test</p> <p>NFE tools/models</p> <p>Press clippings</p>	
<p>Output 2.2:</p> <p>Pilot testing of alternative adaptation technologies and practices in</p>	<p>Number of pilots testing technologies and measures included in local climate change adaptation plans</p>	<p>No adaptation technologies and practices have been tested and no manuals exist</p>	<p>At least 3 pilots produce results on adaptation performance of technologies and practices by the end of the project</p>		

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SLWM	<p>CBOs and farmers participating in pilot testing</p> <p>Number of best adaptation practices and technology manuals</p>		<p>At least 7 CBOs and 50 female and male farmers have participated by the end of the project</p> <p>At least three manuals elaborated by the end of the project</p>		
<p>Outcome 3: A platform for land based climate change adaptation measures suitable to drought prone areas developed; adoption of a package of methods, tools and institutional approaches in support of District and State level natural resource management initiatives to address the impacts of drought.</p>					
<p>Output 3.1:</p> <p>Project lessons, results, and products (CCFS Curriculum, field testing methods, adaptation technology and practices manuals, and institutional approaches) documented and disseminated</p>	<p>Project lessons, results and products available on platform website</p> <p>Number of website visitors</p> <p>Numbers of and participants in dissemination workshops</p>	<p>No platform for land based adaptation measures suitable to drought prone areas exists in India</p>	<p>One platform website operating by the end of the project with 100 visitors per month.</p> <p>At least 3 dissemination workshops with at least 150 participants have been held by the end of the project</p>	<p>Project website, reports, manuals, database on climate variability and its impact indicators, workshop reports and lists of participants</p>	