

# Alternate Wetting and Drying (AWD)



## What is AWD?

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- Alternate Wetting and Drying is also known as controlled or intermittent irrigation
- In this practice the fields are subjected to single or multiple aeration events
- Days where the field is not under flooding conditions can vary from 1 to 10 days
- Water levels are monitored to ensure that the crop is not affected



## Project Implementation

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- The farmers switch cultivation practices from continuous flooding of rice paddies to intermittent flooding.
- The area is canal and tank fed, and there are 2 cropping seasons a year
- 5,000 farmers with average landholdings of 3 hectares
- Farmer Groups will be formed for better community organisation and ease of project implementation
- Each group will consist of 20 farmers.
- Employment opportunities will be created with the local community for purposes of monitoring and data collection



Estimated Emission Reductions  
per Hectare  
**3.17 tCO<sub>2</sub>/ha/year**

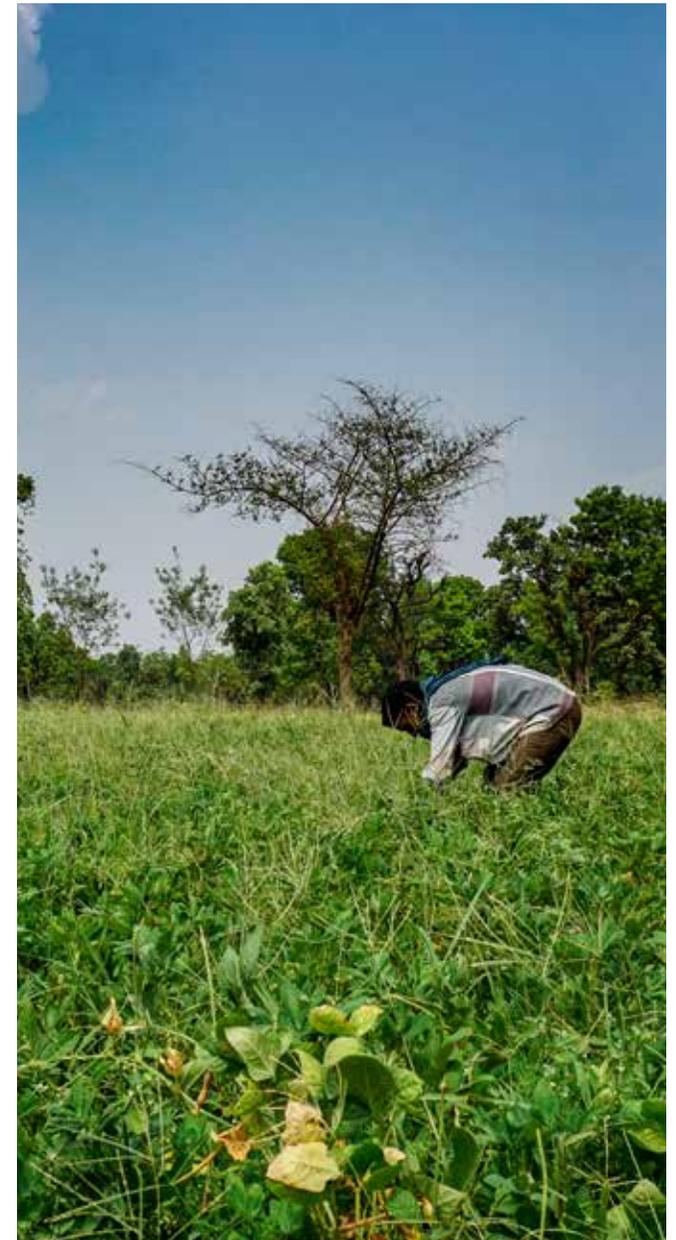
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### **Location:**

#### **Pilot Project**

**Country:** India  
**State:** Madhya Pradesh  
& Maharashtra





# Project Benefits

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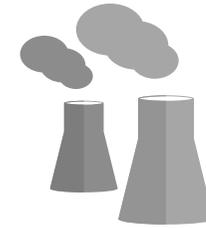
## Water Savings

Water Consumption reduces by 25%



## Crop Yields

Crops are maintained and are not negatively affected



## Reduced methane emissions

Methane emission reductions by upto 50%



## Farmer Groups

Creation of community organisation through formation of farmer groups



## Fuel and Power savings

Fuel Consumption reduces as there is reduced need for pump use



## Local Employment

Recruitment of project staff and monitors

## Project Co-benefits

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Self-help groups with a significant number of women are created; so as to encourage collaborative decision-making and working



Bank accounts will be created for each of the self- help groups and farmer groups



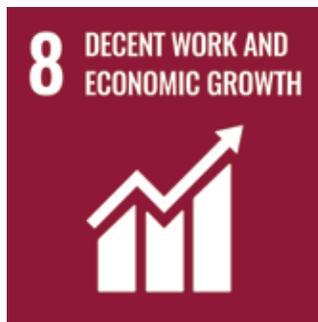
Each group given an amount as seed capital.



This amount is used for micro-loaning as a part of SEED funding among members for various entrepreneurial activities. A revolving micro-fund will be created and capital will be provided to farmers for various activities

## SDGs addressed by the project

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## VNV ADVISORY

VNV Advisory Services has been at the forefront of working with climate change and livelihoods. Our decade-long experience has seen us develop low-carbon projects that support these communities in getting their basic needs while adapting to and mitigating the harsh impacts of climate change. We work in areas of clean cooking, social forestry, sustainable agriculture, rural energy access and many other related community based technologies. With support from over 40 NGOs and implementation partners, our work encompasses over 4 million rural households and 50,000 hectares of forest areas under management across the South Asian (India, Bangladesh, Nepal, Laos, Myanmar and Sri Lanka) region. We have also been able to engage with businesses to address issues of Social Responsibility, Environmental Sustainability and Carbon Neutrality.





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