



Impact Assessment Diversion Based Irrigation Project (BAIF Institute for Sustainable Livelihoods and Development Maharashtra)

**Corporate Social Responsibility Project by
Mahindra and Mahindra Ltd.**

March 2023

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About the Project



Mahindra and Mahindra Ltd. (M&M) has partnered with BAIF Institute for Sustainable Livelihoods and Development Maharashtra to implement a CSR project for livelihood enhancement through Diversion Based Irrigation (DBI).

Project Objective:

To improve water availability through runoff water and availability of irrigation avenues in tribal hill areas through Diversion Based Irrigation as a zero-energy tool for irrigation.



Location

Peint Block, Nashik district, Maharashtra



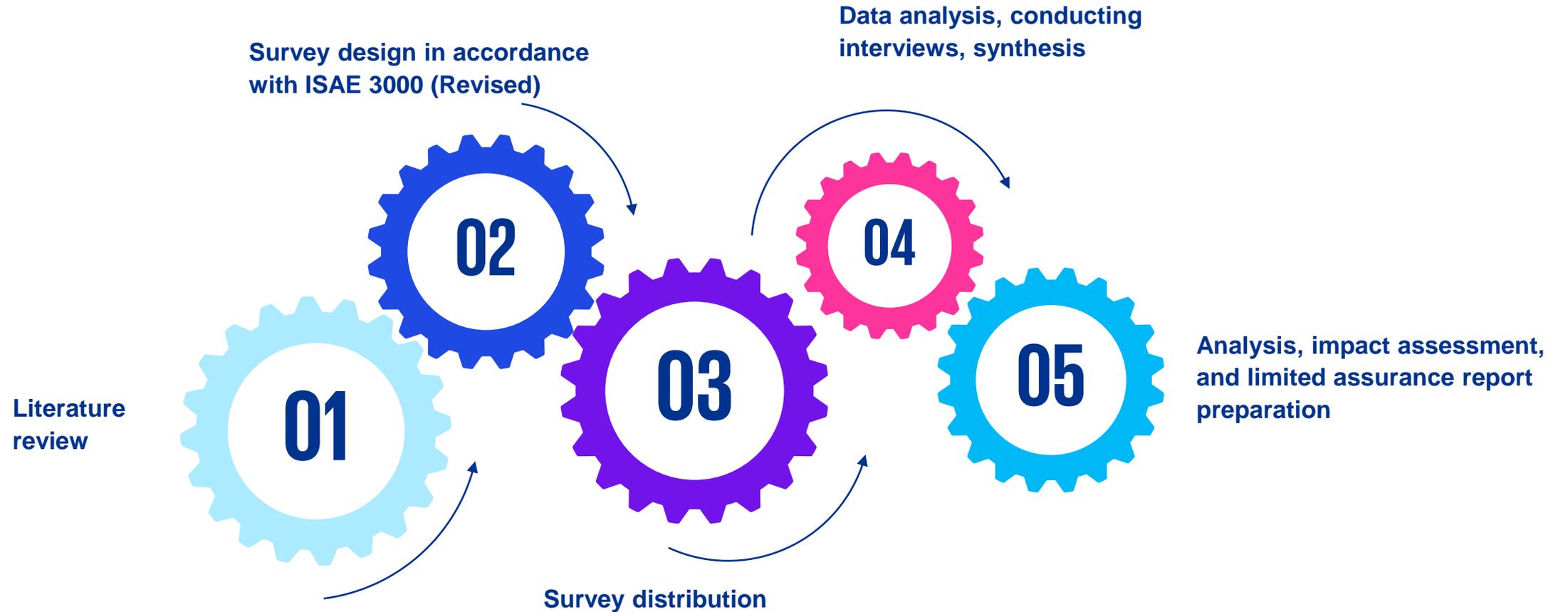
Need of community

There was an issue of irregular water supply and lack of water storage facilities that had cascading effect in terms of reduced cultivation opportunities, low yields and eventually lower income for farmers.

Project Components

- Installation of water storage structure
- Training and capacity building of the community
- Support for horticulture
- Institutional strengthening
- Training and capacity building of the community

Approach & Methodology





Findings from the Impact Assessment

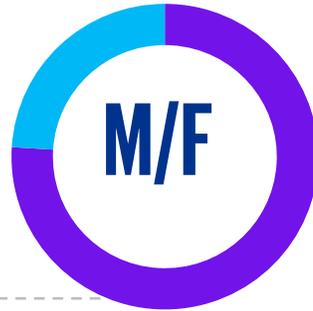


Research Composition

Structured questionnaires, FGDs and KIIs were used to collect quantitative data and qualitative data.

Gender Distribution

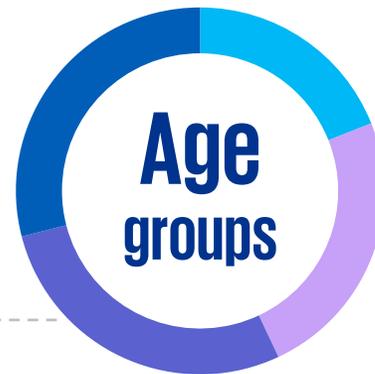
Out of all respondents, 76% were male and 24% were female.



Age Distribution

The respondents were from age group (in years):

- 46-50 (19%)
- 51-55 (24%)
- 40-45 (28%)
- 56-60 (29%)



37%

7-9 Acres

26%

5-7 Acres

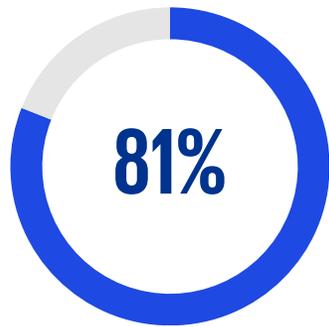
37%

3-5 Acres

Land holding
pattern of
respondents

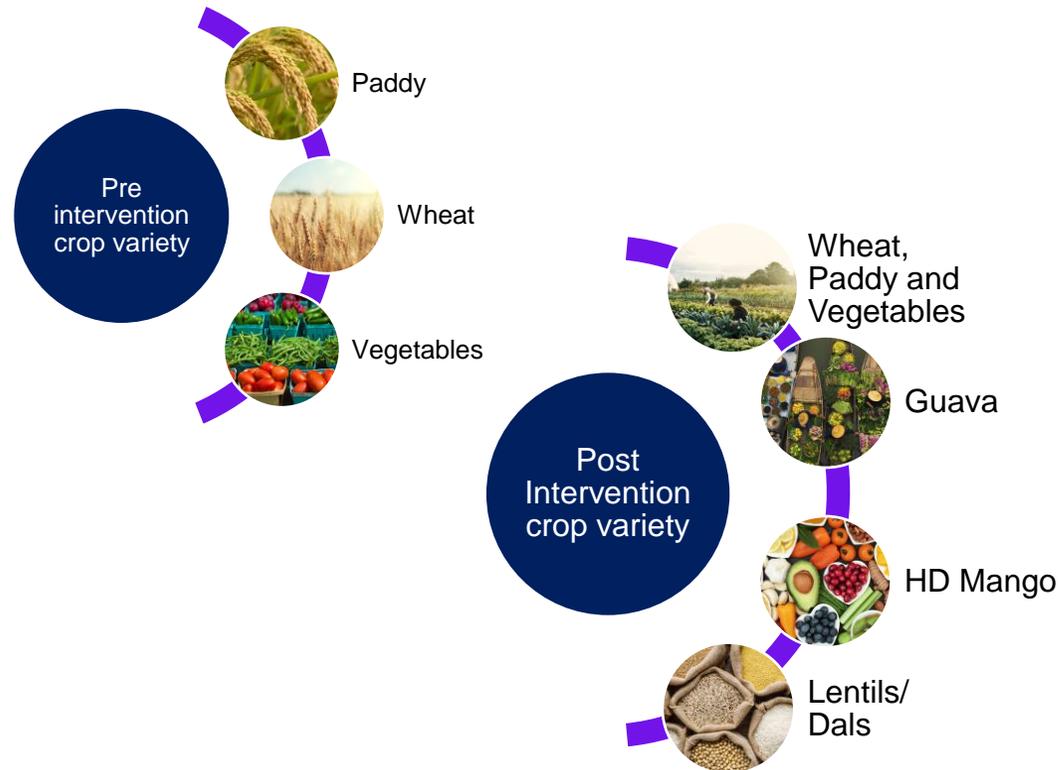
Research Findings(1/2)

Increase in water availability



81% respondents quoted that there has been increase in area under irrigation due to drip irrigation facilities.

Crop Diversification due to interventions



67%

of the respondents shared that they have experienced an increase in yield due to project intervention.

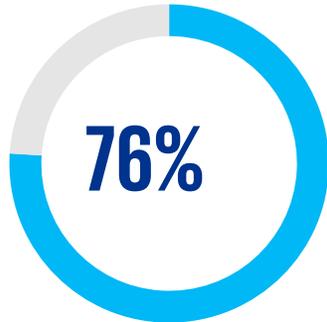
Irrigated land

Prior to the intervention by BAIF, an average of only **1.9 acres** of land was irrigated for all the respondent farmers. Post the intervention, an average of **4.9 acres** of land is being irrigated.

Research Findings(2/2)

67%

67% of the farmers shared that they have experienced an increase in yield.



76% of the farmers experienced not only improvement in quantity and quality of yield but also were able to cultivate extra crops due to increased duration of access to water.

Lined farm pond

The implementation of this technique aims to promote the efficient and equitable utilization of available groundwater, which is a shared resource.



Lined farm pond site

24% of the farmers shared that the land that is now used for plantation was barren before the project intervention.

67%

of the farmers shared that they became more aware about new farming tools & market linkages.



Diversion-based irrigation site



A drip irrigation system implemented at beneficiary's farm



IRECS Evaluation



IRECS Evaluation

Inclusiveness

The program focuses on supporting farmers with necessary information, and resources that can help them in improving Agri-productivity. The project, with its diverse set of services being provided, ensures the inclusivity of the project. This helped the farmers to work on it holistically and not in silos.

01

02

Relevance

It could be understood from the respondents that the project solutions have benefitted the farmers and helped in their areas of need. Farmers are now able to grow a greater number of crops, have received appropriate training to enhance the yield and are able to use water efficiently.

03

Effectiveness

The services & trainings provided to farmers are helping them to use the solutions effectively. The satisfaction of all the respondent farmers on the solutions being provided has helped achieve the intended outcome of the project.

04

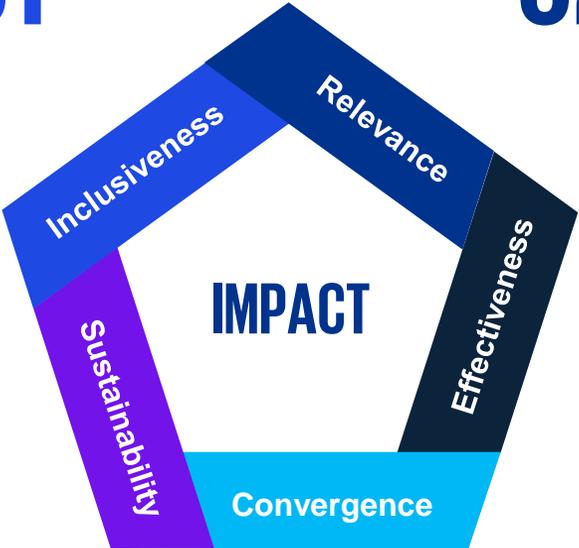
Convergence

Convergence is an integral part of agricultural practices; Elements of agriculture can never exist individually and hence are to be considered together. The solution of providing advanced varieties of Mango and Guava aligns with the initiatives by the government.

05

Sustainability

The formation of Water User Committee ensures that the ownership of the structures like DBI, Farm ponds and lined farm ponds goes to farmers. This ensures famers take care of these structures collectively and address the issues arising on their own.



Beneficiaries Testimonials

Beneficiary 1

As part of the project's various initiatives, the installation of solar energy pumps has proven to be highly beneficial. Prior to their implementation, farmers faced challenges due to irregular electricity supply and high electricity bills, resulting in delayed access to water and damage to crops. However, after the installation of solar energy pumps, farmers can easily draw water without incurring any electricity costs.



Beneficiary of horticulture support.

Beneficiary 2

A beneficiary of the project shared that prior to its intervention, he only cultivated rainfed paddy. Due to a lack of water storage capacity, the land remained fallow for approximately six months of the year. However, with the completion of the farm ponds in April 2021, he has been able to cultivate various crops throughout the year, including wheat, brinjal, bottle gourd, and a guava orchard.



Beneficiary of horticulture support.

Thank You

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