Soil Protection and Rehabilitation for Food Security in India
**Introduction/Background**

The Federal Ministry for Economic Cooperation and Development (BMZ) has commenced “One World No Hunger” initiative in 2014-15, with a strong objective that “A World without Hunger is possible”.

The Soil Programme is one of the three major programmes, being run in India and four other countries (Burkina Faso, Benin, Ethiopia and Kenya). The project on Soil Protection and Rehabilitation for Food Security in India, sponsored by GIZ, is a part of Soil Programme under “One World, No Hunger” initiative.

The soil programme aims for Approaches for soil conservation and rehabilitation are implemented on a broad-scale and this covers -

- Implementing soil conservation and rehabilitation measures based on field-tested Approaches
- Mainstreaming the issue of soil health into national policies, strategies, planning processes and incentive systems
- Knowledge management, capacity development and networks on soil protection and rehabilitation

**Objective**

“Sustainable and inclusive approaches for soil conservation, rehabilitation of degraded lands and improved soil health have been implemented in select locations resulting in enhanced crop productivity”.

**Project Area**

This project with BAIF is being implemented in 14 villages of Ralegaon, Ghatanji and Morshi blocks of Yavatmal and Amravati in Maharashtra State.

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**Project Location Map Yavatmal and Amravati in Maharashtra (INDIA)**

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**Project Area Details**

<table>
<thead>
<tr>
<th>Details</th>
<th>Value</th>
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<tbody>
<tr>
<td>No. Of Villages</td>
<td>14</td>
</tr>
<tr>
<td>Total Area (Ha)</td>
<td>10538.16</td>
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<tr>
<td>Cultivable Land (Ha)</td>
<td>7549.15</td>
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<tr>
<td>Total No. Of Families</td>
<td>3797</td>
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<tr>
<td>Population (Nos)</td>
<td>15577</td>
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Major Interventions

In order to address issues in the project area and to achieve the project objective following interventions has implemented by BAIJ Development Research Foundation, Pune.

- Soil Testing
- Biofertilizer & Biopesticide
- Vermicompost
- NADEP Compost
- Wheat Intensification
- Drought Tolerant Variety Asha- Pigeon Pea
- Introduction of New Crop
- Crop Diversification
- Farm Pond
- Sprinkler
- Solar Pump
- Peddle Pump
- Laser Land Leveller
- Check Dam
- Broad Bed Furrow
- Capacity Building KVK Training
Model of Weather based Agro Advisory

- Weather Forecasting and Agro Advisory uploaded on website of IMD
- Advisory sent to State Agriculture University and KVKs

Indian Meteorological Department (IMD), Pune

- Weather Parameters
  - Rainfall
  - Temperature
  - Humidity
  - Wind Velocity
  - Wind Direction

Weather based Agro advisory on CRP's Tablet

- One Pager
- Voice SMS
- Text SMS
- Two way interaction with Experts

Climate Change Knowledge Network (CCKN)-NICE Platform

Information sharing with Farmers

Writing on painted walls Writing on Black Board

Expected Outcomes
The following outcomes are expected by implementing various natural resource conserving and productivity enhancement measures through selected project activities -

- Improved Soil Health
- Enhanced crop productivity for assured food security
- Increased participation of women

BAIF Development Research Foundation

BAIF is a reputed voluntary organisation established in 1967 by Dr. Manibhai Desai a disciple of Mahatma Gandhi at Uralikanchan, Pune. “BAIF works for upliftment of rural poor in India covering about 5 million families across 15 states through land, water and livestock management.”

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