

# **DEVELOPING DETAILED PROJECT REPORTS (DPRs)**



# Technical Approach

- Area Mapping
- Socio-Economic Survey
- Analysis of Rain-fed Area
- Community Orientation
- Community Need Assessment (CNA-PRA)
- Logical Framework Analysis
- Adopting Process of Micro-Planning with Participatory Approach
- Integration of Various aspects of Watershed Development
- Estimation and Cost Analysis (SCBA and CBR)
- Formation of Watershed Development Association (WDA): Users Groups (UG's) and Self Help Groups (SHG's)
- Documentation and Report Generation.
- Approval of DPRs from the Gram Sabha(s)



# Process



# Some Maps

- **General Map of the Projects Area**
  - ▣ Toposheets and Revenue Maps
- **Other Maps:**
  - ▣ Water bodies, water sources available in the area requiring rejuvenation along with the sites where water storage tanks, earthen dams, ponds, Contour trenches, check-dams, gully plugs, etc.
  - ▣ Maps of the area proposed for intensive agricultural, horticultural, pasture development, along with agro-forestry activities
  - ▣ Maps of the sites proposed for soil conservation activities like vegetative, engineering & bio-engineering measures
  - ▣ Maps of areas proposed for forestry activities

# Socio-Economic Survey

- **Rapport Creation**
- **Baseline Survey/Primary Data**
  - **Door to Door Survey or**
  - **Sample Survey**
- **Secondary Data**
  - **Statistical Reports from Panchayats, Patwari and the Line Departments**
  - **Individual Land Data Formats and Common Land Data Formats**

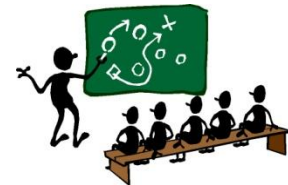


# Socio Economic Survey

- **Demographic & Socio-Economic**
  - BPL, SC/ST, OBC, IRDPs
  - Gender, Adolescent, Children, Aged
  - Employment, Income Status and Skill Gaps
  - Agriculture Production System – crop varieties, productivity, consumption
  - Animal Husbandry – breeds, productivity, feed & fodder, pasture & grazing land
  - Product sales and marketing – farm and non-farm based

# Community Orientation

- **Conceptual Framework of Watershed**
- **Need**
- **Importance**
- **Project Management**
- **Benefits to the Community**
- **Preserving the Nature & Combating Global Warming and Climate Change Issues**
- **Community Ownership & Successful Models**
- **Evaluation of Watershed Services**



# Analysis of Rain Fed Area

- **Project area Work Plans**
  - ▣ **Description of the Watershed**
    - **Climate**
    - **Geology**
    - **Major water sources**
    - **Streams**
    - **Slopes**
    - **Sedimentation**





# Analysis of Rain Fed Area

- **Surface Drainage**
  - Nature of flow
  - Drainage net
  - Morphologic characteristics of streams
- **Soils**
- **Physiography**
- **Water Use and Needs**
- **Land Use and Cover Conditions**
- **Farm Practices**



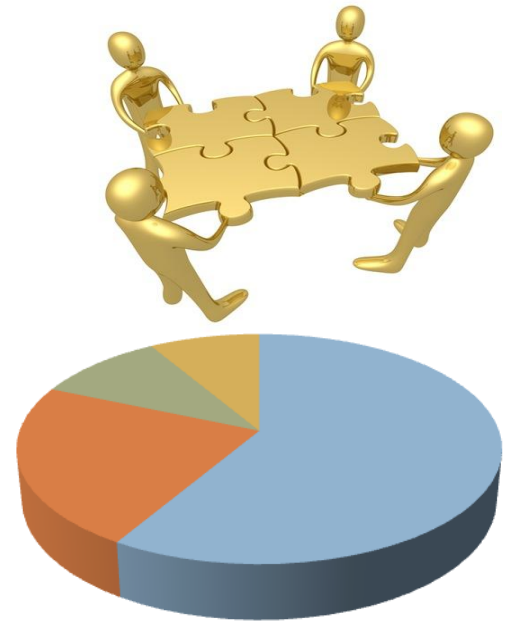
# Need Assessment (1/2)

- **Participatory Rural Appraisal**
  - ▣ **Tools & Techniques**
    - **Community Needs Assessment (CNA)**
    - **Service Ranking (priority)**
    - **Participatory Wealth Ranking—PWR**
    - **Resource Analysis**
    - **Preference Ranking**
    - **Time Line-Seasonality**



# Need Assessment (2/2)

- **Transit Walks**
- **Social & Resource Maps**
  - **General Overview**
- **Venn Diagram**
  - **To Understand the Local Context**
- **FGD**
  - **Getting Community Approved Conclusions**



# Logical Framework Analysis (LFA)

## □ Situational Analysis

### ▣ Existing Resources

#### ■ Land

- Cultivable & Non Cultivable, Land use pattern, Cultured / Non cultured.

#### ■ Water

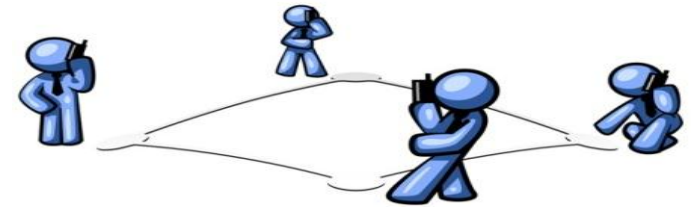
- Available Sources, Water Usage, Depleting Sources, Sanitation.

#### ■ Forest

- Forest Area, Forest Land, Available Species,

#### ■ Wild Life

- Historical Background, Prevailing Birds and Animals



# Logical Framework Analysis (LFA)

## □ Problem Analysis

### ▣ Cause and Effects

#### ■ Watershed Problems

- Flood Water Damage
- Sediment Damage
- Erosion Damage
- Problems Relating to Water Management
- Special Problems
- Socio-economic Problems



# Logical Framework Analysis (LFA)

## ■ Other Problems

- Low Farm Yields
- Migration and Unemployment
- Animal Husbandry
- Lack of Latest Techniques & Supplies for Farm Based Practices
- External Problems

## □ Objective Analysis

- Ends and Means



# Logical Framework Analysis (LFA)

Areas	Activities	Objectively Verifiable Indicators	Means of Verification
<b>Agriculture and Horticulture</b>	<ul style="list-style-type: none"> <li>• Irrigation facilities</li> <li>• Increase in Humus Content</li> <li>• Better Agri-Horti Practices</li> <li>• Value Addition - Marketing – Processing</li> <li>• Micro-irrigation Techniques</li> <li>• Agro-forestry</li> </ul>	<ul style="list-style-type: none"> <li>• Better farm practices and implementation systems</li> <li>• Non-dependence on rains</li> <li>• Soil Moisture Contents</li> <li>• Better Soil and Healthy crop</li> <li>• Less inputs</li> <li>• Sustainable environment</li> <li>• Sustainability of productivity</li> <li>• Longer life of products</li> </ul>	<ul style="list-style-type: none"> <li>• Area of newly cultivated lands</li> <li>• Increase in Output</li> <li>• Area of wasteland converted into Agriculture, Horticulture, Floriculture and pasture lands</li> <li>• Rate of sales</li> </ul>
<b>Livelihood</b>	<ul style="list-style-type: none"> <li>• Farm Based Micro enterprises</li> <li>• Non Farm based Micro enterprises</li> </ul>	<ul style="list-style-type: none"> <li>• New Income generation Programmes and activity in the Area</li> <li>• Increase in the income level of People</li> <li>• Reduced migration</li> <li>• Better services</li> <li>• Better Utilization of Resources</li> <li>• Improvement in quality and standard of life</li> <li>• Sustainability of the livelihood practice as well as environment</li> </ul>	<ul style="list-style-type: none"> <li>• Number of people newly employed in Income generation Activities</li> <li>• Survey</li> <li>• Comparison with the data of production from the preliminary survey</li> <li>• Increased income level of BPL families</li> <li>• Landless farmers engaged in Livelihood activities</li> </ul>
<b>Animal Husbandry</b>	<ul style="list-style-type: none"> <li>• Promotion of Stall Feeding</li> <li>• Development and Improvement of Pastures</li> <li>• Milk Marketing</li> <li>• Milk bye-products</li> <li>• Farmyard Manure production</li> <li>• Assessment of carrying capacity of</li> <li>• Solid waste management</li> </ul>	<ul style="list-style-type: none"> <li>• Healthy animals</li> <li>• Sanitation</li> <li>• Healthy Fodder grasses</li> <li>• Diversified Milk products</li> <li>• Better draft animals</li> <li>• Organic farming</li> <li>• Filth free environment</li> </ul>	<ul style="list-style-type: none"> <li>• Increased Milk Production</li> <li>• Decreased Animal diseases</li> <li>• Quality Milk Production</li> <li>• Adequate fodder throughout the year</li> <li>• Quantity of Marketing</li> <li>• Organic products</li> <li>• Scientific waste management leading to clean environment</li> </ul>

# Logical Framework Analysis (LFA)

Areas	Activities	Objectively Verifiable Indicators	Means of Verification
<b>Soil Conservation</b>	<ul style="list-style-type: none"> <li>• Survey for classifying soil erosion</li> <li>• Conservation of fertile top layer</li> <li>• Plantations (grasses, bushes &amp; trees)</li> </ul>	<ul style="list-style-type: none"> <li>• Classification of soil erosion in the area</li> <li>• Better soil micro-organism activity</li> <li>• Checked soil loss, reduction in the sedimentation</li> </ul>	<ul style="list-style-type: none"> <li>• Erosion control measures</li> <li>• Better soil structure</li> <li>• Sedimentation</li> <li>• <i>Universal Soil Loss Equation</i></li> <li>• Evaluation</li> </ul>
<b>Water Conservation</b>	<ul style="list-style-type: none"> <li>• Survey and classification of water bodies</li> <li>• Preservation, Maintenance &amp; improving the quality of existing water bodies</li> <li>• Recharging of water bodies</li> <li>• Nallah Training Works</li> <li>• Water Harvesting Structures</li> <li>• Rain Water Harvesting</li> <li>• Construction of Ponds</li> <li>• Improved Water application methods</li> </ul>	<ul style="list-style-type: none"> <li>• Maintained Quality Water and of the existing water bodies</li> <li>• Enhanced discharge of water</li> <li>• Rise in ground water table</li> <li>• Availability of water for diverse usages</li> <li>• Increase in surface water bodies discharge</li> <li>• Less water waste</li> </ul>	<ul style="list-style-type: none"> <li>• Water availability</li> <li>• Water testing</li> <li>• Sustainable water availability</li> <li>• Measure ground water table</li> <li>• Number of new Check dams, ponds, earthen dams, Irrigation tanks, Irrigation Channels</li> <li>• Reduced per-capita consumption of water</li> <li>• Evaluation</li> </ul>
<b>Common Property Resources</b>	<ul style="list-style-type: none"> <li>• Fruit Production in Common lands</li> <li>• Community Based Irrigation Tanks</li> <li>• Enhancing Silvopastoral Practices</li> <li>• Community Market Complex</li> </ul>	<ul style="list-style-type: none"> <li>• Marketing of fruits by user group</li> <li>• Increased water availability</li> <li>• Availability of fodder and fuel wood</li> </ul>	<ul style="list-style-type: none"> <li>• Landless farmers engaged</li> <li>• Regular water supply</li> <li>• Balanced animal fodder proportion</li> <li>• Evaluation</li> </ul>



# Action Plan

## □ Agriculture

- Analyzing the production - consumption gaps and propose solutions
- Irrigation and supplementary irrigation systems
- Farm productivity
- Organic Farming
- Value Addition – Marketing
- Community Markets
- Transportation

# Action Plan

- **Animal Husbandry**
  - **Carrying Capacity**
  - **Cattle –fodder balance through Agro-Forestry**
  - **Grazing lands & Development of Pasture Land**
  - **Balancing Cattle - Fodder Ratio**
  - **Enhanced fodder production for Cattle –Fodder Balance**

# Action Plan

## □ Farm Based Micro Enterprises

- Cultivation of seasonal and off-seasonal vegetables
- Cultivation of region specific medicinal and aromatic plants of high economic value
- Cultivation of traditional crops which are on extinct for self consumption, marketing & bio-diversity
- Nursery raising
- Dairy Farming
- Poultry
- Piggery
- Augmentation of production system of wool
- Processing of milk and wool
- Bio-gas Plant
- Vermi- Compost
- Mushroom
- Bee Keeping

# Action Plan

## □ Fish Culture

- Promoting landless people for group activities
- Local Fish Varieties
- African Catfish (Mushi)
  - 6- 9 months
  - Length upto 1 meters
  - Seeds for Rs. 6 – 10 , selling price Rs. 125 – 200 / kg

## □ Non-farm based

- Promotion of eco-tourism in the area
- Promotion of small restaurants
- Processing of Fruits, Vegetables and Cereals
- Communication centers
- Marketing of products made by different groups, i.e. SHGs

# Adoption of Micro-Planning Process

- Participatory Approach
- Sector/Area-wise Planning
  - **Common Lands**
  - **Private Lands**
  - **Drainage Lines**
  - **Vulnerable Groups**
- Year-wise Planning
- Probing the tentative solutions for priority problems
- Development of tentative Time Line
- Users Groups & Self Help Groups
- Introduction to Watershed Development Fund



# Institutional Setup

- **Projects Development Committees**
  - Selection of members through Gram Sabha
- **Users Groups**
  - Identification of the Beneficiaries under each Scheme
  - Organizing the Beneficiaries into a Group and ascribing the name of the “Scheme Specific” to the Group
  - Getting Elected the Group Leader & Secretary
  - Concept clearance of Users Charges



# Institutional Setup

## □ Self Help Groups

- Identification of the Target Groups: Women, Men with low income (BPL) / Families under IRDP, SC / ST Families, landless farmers etc. who do not get covered by the Developmental Schemes under Watershed
- Formation of the Self Help Groups and Documentation of Formation Process
- General Orientation on the SHG Concept



# Convergence

## □ Programmes

- Integration of TSC , MGREGS, BRGF, JFMC, SGSY

## □ Sectors

- Convergence with all Line Departments for Multi- Disciplinary and Multi-Sectoral Approach
- Marketing of Milk and Milk Products : **HP Milkfed**
- Capacity Building, Entrepreneurial support and skill up-gradation
- Technical Support
  - Agricultural University, Palampur
  - Horticultural University, Solen
  - Department of Agriculture
  - Department of Horticulture
  - Department of Animal Husbandry
  - Department of Fisheries
  - Department of Industry
  - Pharmaceutical Companies



# Approval of Projects Action Plan from Gram Sabha(s)

- Formulation of Projects Action Plan (PAP)
- Organizing Gram Sabha(s) within the Project Area
- Presentation of Projects Action Plan (PAP) in Comprehensive Manner
- Incorporation of New Suggestions of Gram Sabhas, if Technically Feasible.
- Getting WAP Approved from Gram Sabha(s)
- Report Production



# Documentation and Report Production

- **Comprehensive Report in Preferred Language**
- **Activity Plan** :Year-wise and component-wise description with area coverage, Cost, Users Group, Appropriate Technology to be adopted and the Time Frame
- **Special Focus on Empowerment of Vulnerable (e.g. BPL & others) Groups**



# Contents of DPR

1. **Introduction**
2. **Description of the Projects**
  1. **Location**
  2. **Size and shape**
    1. Watershed Area Maps
  3. **Climate**
  4. **Geology**
  5. **Slopes**
  6. **Surface drainage**
    1. Nature of flow
    2. Drainage
    3. Morphologic Characteristics
  7. **Soils**
  8. **Physiography**

# Contents of DPR

9. Water use and water needs
10. Land use and cover conditions
11. Socio-Economic Data
- 3. Projects Problems**
  1. Flood water damage
  2. Sediment damage
  3. Erosion damage
  4. Water Management
  5. Socio-economic Problems
  6. Agricultural Horticulture Problems
  7. Animal Husbandry
  8. BPL Families

# Contents of DPR

## 4. Proposed Management Programme

1. Agriculture, Horticulture
2. Animal Husbandry
3. Water & Soil Conservation with structure design and estimation
4. Capacity Building
5. Livelihood Programmes
  1. Farm Based Micro enterprises
  2. Non-farm Based Micro enterprises  
(with special focus on BPL Families and Landless Farmers)

# Contents of DPR

5. **Management of Common Property Resources**
6. **Formation of Groups**
  1. Projects Committees
  2. Self-Help Groups
  3. User Groups
7. **Proposed Time Line of Programme Implementation**
8. **Expected Gross Outcomes of Implementation**
9. **Budget and Cost Analysis**
10. **(Social) Cost Benefit Analysis**
11. **Conclusion**

# Key Indicators

- **Vegetation Coverage**
- **Livelihood Coverage**
- **Convergence Issues**
- **Complete Treatment of the Target Area**
- **Maintenance of Common Property Resources**
- **Demonstrative Approach**
- **Community Contribution**
- **Additional Resource Mobilization**





# Thank You

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