



सत्यमेव जयते

ANNUAL REPORT

2022-2023



**SOIL & WATER CONSERVATION
DEPARTMENT
GOVERNMENT OF MEGHALAYA**

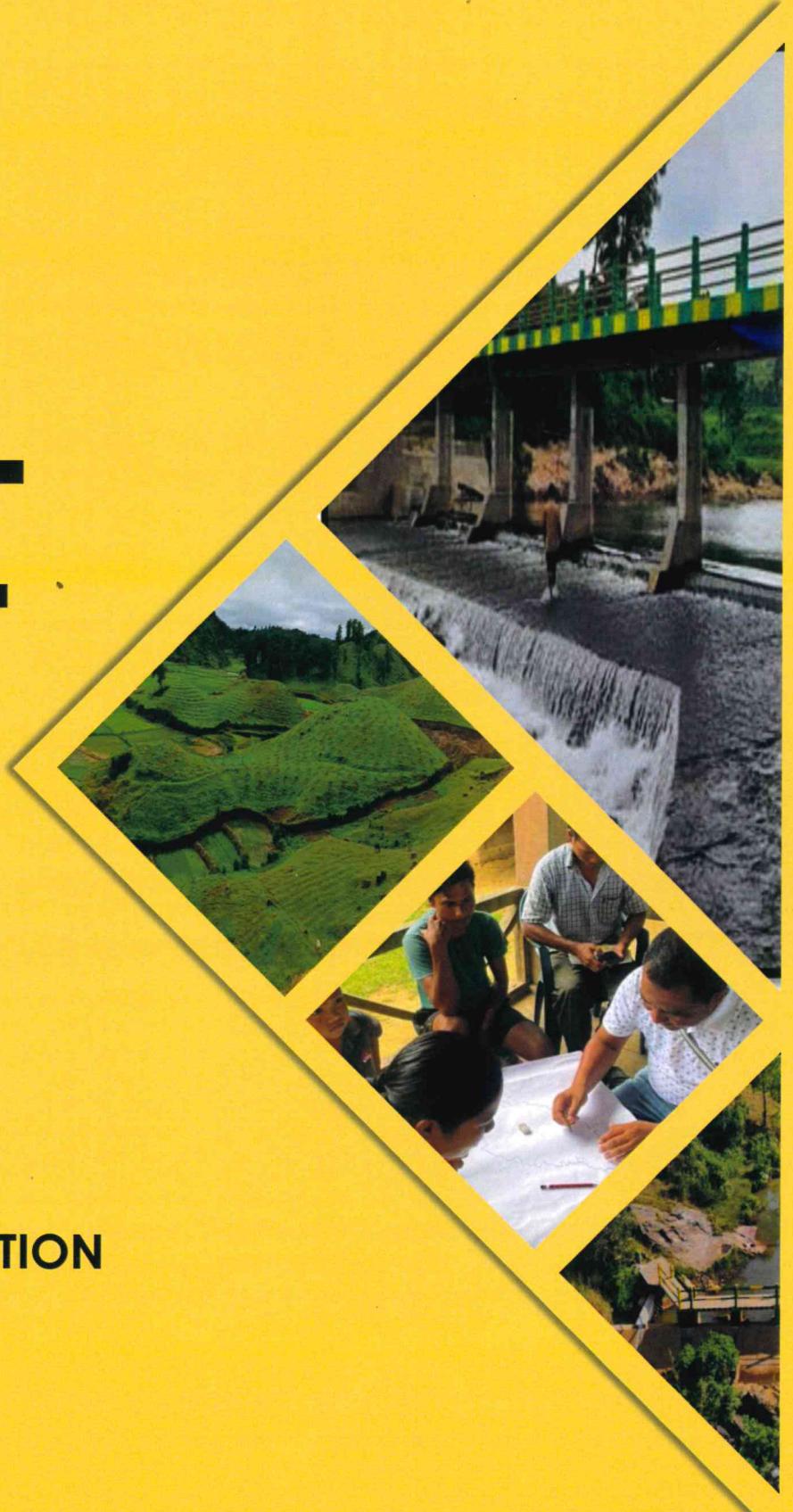


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PREFACE



(Shri. Z. D. Shira)

Director Soil & Water Conservation
Meghalaya, Shillong

As we reflect on the past year, we are reminded of the critical importance of protecting our natural resources—soil and water. Soil conservation is essential to prevent erosion and degradation, maintaining fertility and structure while also preserving water and reducing sedimentation. These efforts are foundational to supporting biodiversity and sustaining ecosystems. As finite resources, soil and water conservation is crucial to environmental sustainability, impacting climate change, food security, human health, economic development, and social well-being.

The Soil and Water Conservation Department plays a vital role in these efforts, making a meaningful difference in the lives of farmers and communities across the state. Our work is about more than policies and programs; it's about the lasting, positive impact we can make in people's lives. This mission inspires our dedication to fostering a better future for individuals, families, and communities.

We are pleased to present the Department's Annual Report for 2022-23, which highlights our achievements in promoting sustainable practices, implementing conservation measures, and collaborating with communities to protect soil and water resources. This report also outlines our challenges and the opportunities ahead as we continue to build a more resilient and sustainable future. We remain dedicated to our mission through training programs, outreach, and technological initiatives that benefit farmers and rural communities.

As we advance with dedication and purpose, I extend my heartfelt gratitude to our team for their unwavering commitment to excellence, and I am grateful for their contributions toward our shared goals. Together, we look forward to serving the state with distinction."



(Dr. Joram Beda, IAS)

Commissioner & Secretary to the Government of Meghalaya
Soil & Water Conservation Department

Message

It gives me great pleasure to learn that the Soil and Water Conservation Department is publishing its Annual Report for the year 2022-23. I am sure that the report will showcase the Department's achievements and its impact in conserving and managing the natural resources of our state in the best way possible. It is noteworthy to mention that the Department is committed to improving the lives of farmers through various soil and water conservation activities.

I am grateful to the entire team in the Soil and Water Conservation Department for their relentless efforts in the preservation and protection of our vital resources - soil and water. Their collaborative spirit, dedication, and hard work have been instrumental in the Department's progress towards the goal of a sustainable and environmentally conscious future.

I extend my heartfelt congratulations to the Department on the publication of the Annual Report. I am also confident that they will continue to have a positive impact in the lives of farmers and the environment in the days to come.

MARCUISE N. MARAK**Minister**

Housing, Public Health Engineering,
Soil & Water Conservation Departments,
Meghalaya, Shillong

Room No. 414

Yojana Bhavan,
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Shillong - 793001

**Phone Numbers****Mobile No. – 9612155597****Email – marakmarcuise@gmail.com****CHAPTER I****1.1 Introduction**

Meghalaya a hilly region blessed with abundant natural resources and biodiversity, is grappling with environmental degradation. The pressures of a growing population, inadequate resource management, and climate fluctuations have taken a toll on the land, water, and vegetation. This has led to a decline in land fertility, water scarcity, and loss of ecosystem services, ultimately threatening the food, social, and economic well-being of the community. To combat these challenges, the Soil & Water Conservation Department is rolling out a comprehensive set of programs aimed at achieving sustainable development and environmental stewardship. These initiatives focus on watershed management, area-specific solutions, technology transfer, and water conservation, all designed to promote eco-friendly practices and ensure a prosperous future for the region.

1.1.1. Mandate

Natural resource management, particularly soil, water and vegetation resources in the context of perpetual utilization and sustainable development of the said resources to improve and sustain livelihood system and to aid in income earning activities of the user communities

1.1.2. Aims

- To promote sustainable utilization of soil, water and vegetation resources
- Sustainable food support and water needs
- To promote social, economic and ecological development

1.1.3. Objectives

- Dissipating accelerated soil erosion, surface runoff and erosion of topsoil
- Enhancing water holding capacity of the soil
- Improving soil moisture regime within the soil profile/monolith
- Promoting soil health and tilth
- Providing soil cover with forest trees/fruit trees/plantation crops etc.
- Protecting stream/river bank erosion and denudation of cultivable/cultivated land
- Protecting drainage area of water sources

Message

"I am delighted to learn that the Soil & Water Conservation Department is publishing its Annual Report for the year 2022-23. I understand that the report will highlight various aspects of the Department's fieldwork, administrative initiatives, and policies designed to conserve natural resources and promote integrated development, especially within rural communities.

I commend the officers and staff for their dedicated efforts in capturing the Department's achievements in this report and extend my best wishes for continued success in all future endeavours."

- Harvesting rainwater for multipurpose utilities
- Enhancing agricultural crop productivity
- Promoting integrated farming system
- Promoting livelihood and gainful employment opportunities

1.1.4. Prerequisites

In the endeavor for natural resources management, it is important for the local partners in development, the local institutions, community, stakeholders and users to unreservedly, voluntarily and actively participate in the different phases viz. exploratory, planning phases and upward. Secondly, it is also equally required for other development Departments to willingly participate for ensuring convergence to bring about holistic and realistic development of the people. Lastly, the importance of Public-Private Partnership in up-scaling the natural resources management programmes require no emphasis.

1.1.5. Agenda of Action

- To ensure that the service-deliveries promote and meet the afore-cited aims and objectives, a mechanism to take forward the system is required. They are underlined as follows:
- Formulation of Land Use and Action Plan on a participatory mode; adoption of appropriate soil and water conservation techniques and measures preferably on a Watershed basis, which is increasingly recognized as an ideal approach for Integrated Natural Resources Management Programme.
- Strengthening the information, Education, Communication Systems, and Capacity Building & Demonstration.
- Application of science and technology and research & development inputs.
- Awareness campaign, mobilization and organization of the community, empowerment, building their capacity, up gradation of local skills.
- Promotion and encouragement of Self-Help Institutions and other promoting institutions. Designing mechanism to monitor and evaluate socio-techno-economic impacts and results.

1.2. Administrative Setup of the Department

| | | |
|-----------|---|---|
| 1. | DIRECTORATE OF SOIL & WATER CONSERVATION | |
| 2 | BRANCH DIRECTORATE | • Research & Training, Conservation Training Institute, Byrnihat. • Jhum Control, Tura |
| 3 | | 1. Project Formulation Cell 2. Soil and Water Conservation, Soil Survey Division 3. Soil and Water Conservation, Engineering Division |
| 4 | DISTRICT/FIELD DIVISIONS | |
| | In the field, the works of the Department are executed by the Territorial and the Plantation Crop Divisions supported by the Soil & Water Conservation Ranges and Soil & Water Conservation Beat offices. | |

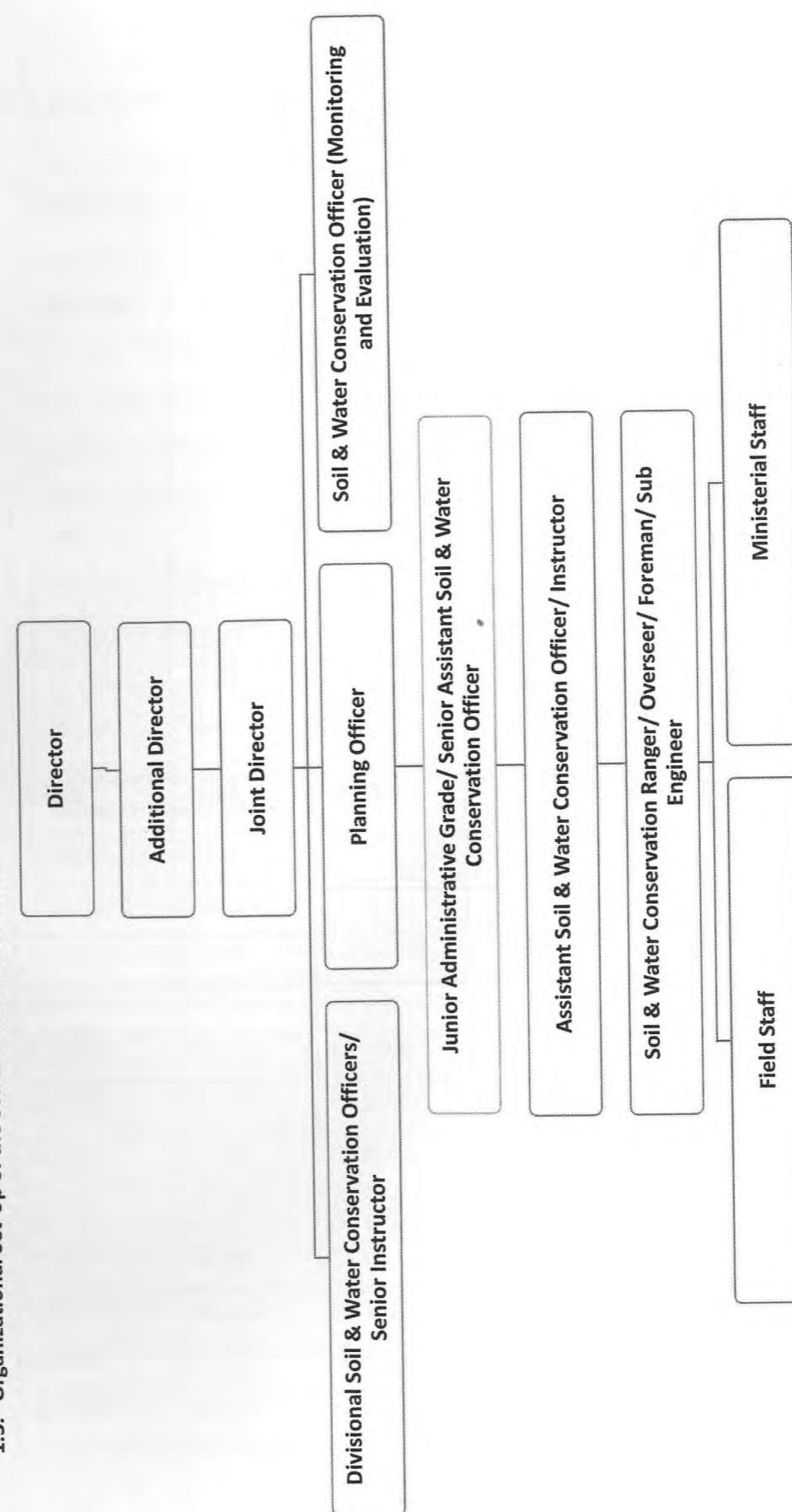
| SI No | District | Division | Range/Beat Office |
|-------|---------------------------|---|--|
| 1. | East Khasi Hills District | Shillong Soil and Water Conservation (Territorial Division) | 1. Southern Soil & Water Conservation Range, Mawphlang. 2. Shillong Soil & Water Conservation Range, Shillong. 3. Laitlyngkot Soil & Water Conservation Range, Laitlyngkot. 4. Watershed Management Soil & Water Conservation Range, Shillong. 5. Sohra Soil & Water Conservation Range, Sohra |
| | | Shillong Soil and Water Conservation (Plantation Crop Division), Shillong | 1. Mawshynrut Plantation Crop Beat Office |
| | | Beat Office | 2. Shillong Soil & Water Conservation (Plantation Crop) Range, Shillong 3. Weiloi Soil & Water Conservation Beat Office, Weiloi. 4. Margnar Soil & Water |

| | | | |
|----|---------------------------------|--|---|
| | | | Conservation (Plantation Crop) Range, Marngar. |
| 2. | West Jaintia Hills District | Jowai Soil & Water Conservation (Territorial) Division, Shillong | 1. Jowai Soil & Water Conservation Range, Thadlaskein. |
| | | | 2. Amlarem Soil & Water Conservation Range, Amlarem. |
| | | | 3. Watershed Management Soil & Water Conservation Range, Jowai. |
| | | | 4. Shangpung Soil & Water Conservation Range, Shangpung |
| | | Jowai Soil & Water Conservation (Plantation Crop) Division, Shillong | 1. Amlarem Soil & Water Conservation (Plantation Crop) Range, Amlarem |
| | | | 2. Namdong Soil & Water Conservation (Plantation Crop) Range, Namdong. |
| | | | 3. Lumshnong Soil & Water Conservation (Plantation Crop) Range, Lumshnong |
| | | East Jaintia Hills Soil and Water Conservation Division, Khliehriat | 1. Khliehriat Soil and Water Conservation Range, Khliehriat |
| 3. | East Jaintia Hills District | Ri-Bhoi Soil and Water Conservation Division, Nongpoh | 2. Lumshnong Soil and Water Conservation Division, Lumshnong |
| | | | 1. Nongpoh Soil & Water Conservation Range, Nongpoh |
| | | | 2. Patharkhmah Soil & Water Conservation Range, Patharkhmah. |
| | | Beat Office | 3. Sonidan Soil & Water Conservation Range, Sonidan |
| | | | 4. Umroi Soil & Water Conservation Beat office, Umroi. |
| 5. | West Khasi Hills District | Nongstoin Soil and Water Conservation Division, Nongstoin | 1. Riango Soil & Water Conservation Range, Riango |
| | | | 2. Mairang Soil & Water Conservation Range, Mairang. |
| | | | 3. Nongstoin Soil & Water Conservation Range, Nongstoin. |
| | | | 4. Watershed Management Soil & Water Conservation Range, Nongstoin. |
| | South West Khasi Hills District | South West Khasi Hills Soil & Water | 1. Mawkyrwat Soil & Water Conservation Range, Mawkyrwat. |

| | | | |
|-----|--------------------------------|---|---|
| | | Conservation Division, Mawkyrwat | 2. Border Areas Soil & Water Conservation Range, Ranikor. |
| 7. | West Garo Hills District | Tura Soil & Water Conservation (Territorial) Division, Tura | 1. Central Soil & Water Conservation Range, Tebronggre, West Garo Hills, Meghalaya |
| | | | 2. Western Soil & Water Conservation Range, Damjonggre, West Garo Hills, Meghalaya |
| | | | 3. Southern Soil & Water Conservation Range, Machangpani, |
| | | | 4. Anogre Soil & Water Conservation Range, Anogre, West Garo Hills, Meghalaya |
| | | | 5. Jongchipara Soil & Water Conservation Range, Jongchipara, West Garo Hills, Meghalaya |
| | | | 6. Watershed Management Soil & Water Conservation Range, Tura, West Garo Hills, Meghalaya |
| | | Tura Soil and Water Conservation (Plantation Crop) Division, Tura | 7. Danakgre Soil & Water Conservation (Planatation Crop), Danakgre. |
| | | Beat Office | 8. Dadengre Plantation Crop Soil & Water Conservation Beat Office, Dadengre. |
| 8. | South Garo Hills District | South Garo Hills District Soil and Water Conservation Division, Baghmara | 1. Baghmara Soil & Water Conservation Range, Bahgmara. |
| | | | 2. Chockpot Soil & Water Conservation Range, Chockpot. |
| | | | 3. Rongara, Soil & Water Conservation (Planatation Crop) Beat Office, Rongara. |
| 9. | South West Garo Hills District | South West Garo Hills District Soil and Water Conservation Division, Ampati | 1. Damalgre, Soil & Water Conservation Range, Damalgre. |
| | | | 2. Zikzak Soil & Water Conservation Range, Zikzak |
| | | | 3. Ampati Plantation Crop, Beat Office, Ampati. |
| 10. | East Garo Hills District | Simsanggre, Soil & Water Conservation Division, Williamnagar | 1. Eastern Soil & Water Conservation Range, Songsak Bonegre. |
| | | | 2. Watershed Management, Soil & Water Conservation Range, |

| | | | |
|-----|---|--|--|
| | | | Williamnagar. |
| 3. | Williamnagar Soil & Water Conservation Range, Williamnagar. | | |
| 4. | Rongjeng Plantation CropBeat Office, Rongjeng. | | |
| 11. | North Garo Hills District | | 1. North Garo Hills, Soil and Water Conservation Range, Mendipathar. 2. North Garo Hills Soil and Water Conservation, Resubelpara 3. North Garo Hills, Soil and Water Conservation Beat Office, Adokgre. 4. Wageasi, Soil & Water Conservation (Plantation Crop), Wageasi. 5. Bajengdoba, Plantation Crop Beat Office, Bajengdoba. 6. Kharkutta Plantation Crop Beat Office, Kharkutta. |

1.3. Organizational Set-Up of the Soil & Water Conservation



CHAPTER II
**STATEMENT INDICATING THE BUDGET AND EXPENDITURE BUDGET FOR THE FINANCIAL YEAR
 2022-23**

| Major/Minor Head of Deptt. /Scheme | Budget Outlay 2022-23 | Revised Budget 2022-23 | Expenditure 2022-23 |
|---|--|---|--------------------------------------|
| | | | |
| (1) | (2) | (2) | (2) |
| REVENUE HEAD | | | |
| SOIL & WATER CONSERVATION SECTOR | | | |
| 2216. HOUSING - STATE SCHEMES | | | |
| 07. HOUSING | | | |
| 053 MAINTENANCE AND REPAIRS | | | |
| (02). Other maintenance expenditure | 63.82 | 80.07 | 80.07 |
| (03) Maintenance of Departmental Non-Residential Building | 8.05 | 8.05 | 8.05 |
| Total 2216 | 71.87 | 88.12 | 88.12 |
| 2402. SOIL & WATER CONSERVATION | | | |
| STATE SCHEMES | | | |
| 001. DIRECTION & ADMINISTRATION | | | |
| (01) Directorate of Soil Conservation | 494.20 | 507.52 | 472.92 |
| (02) Divisional Soil Conservation Offices | 2254.34 | 2254.97 | 2045.53 |
| (03) Soil Conservation Range Offices | 2022.33 | 2026.93 | 1812.25 |
| (05) Project Formulation Cell | 333.87 | 350.03 | 305.18 |
| (06) Soil Conservation Engineering Division | 137.83 | 140.46 | 127.91 |
| (07) Establishment of Evaluation Unit | 40.27 | 40.27 | 26.42 |
| (08) Cash Crop Division | 1167.65 | 1167.65 | 1015.89 |
| (09) Watershed Management Division | 701.07 | 706.28 | 597.58 |
| (10) Soil Conservation Survey Division | 252.90 | 253.44 | 216.18 |

| | | | |
|--|----------------|----------------|----------------|
| (12) Payment due to Me.S.E.B./Municipal Board/Telephone Bills (BSNL) | 5.44 | 22.46 | 18.26 |
| TOTAL 001 | 7409.90 | 7470.00 | 6638.13 |
| 101. SOIL SURVEY & TESTING | | | |
| (01) Soil Conservation Survey Schemes | 150.47 | 150.98 | 122.34 |
| (02) Soil Testing Works | 30.18 | 30.50 | 21.38 |
| TOTAL 101 | 180.65 | 181.48 | 143.72 |
| 102. SOIL CONSERVATION SCHEME | | | |
| (04) Erosion Control Works | 33.85 | 33.85 | 17.56 |
| (06) Afforestation | 1803.92 | 3303.34 | 3302.02 |
| (08) Water Conservation & Distribution Works / Irrigation | 7.30 | 7.30 | 6.80 |
| (09) Cash Crop Development Works | 377.49 | 548.34 | 487.77 |
| (10) Construction works in Urban Areas | 27.05 | 27.05 | 0.00 |
| (11) Water Harvesting Works / Farm ponds, etc. | 12.46 | 102.25 | 99.99 |
| (12) Avenue Plantation | 0.00 | 0.00 | 0.00 |
| (14) Integrated Watershed Management Programme (IWMP) (STATE SHARE) | 1045.85 | 1045.85 | 579.78 |
| (19) Jhum Control Schemes | 455.37 | 482.32 | 386.95 |
| (20) Watershed Management | 0.00 | 0.00 | 0.00 |
| (21) Soil Conservation Scheme under NABARD Loan | 1802.06 | 1770.37 | 1742.05 |
| (23) Accelerated Irrigation Benefits Programme (AIBP) | 0.00 | 100.22 | 100.22 |
| (24) Maintenance of Roads to Works Areas | 360.45 | 189.58 | 22.57 |
| (25) Cherrapunji Eco Restoration | 500.00 | 273.29 | 0.00 |
| (26) Small Multipurpose Reservoirs | 0.00 | 0.00 | 0.00 |
| (28) Meghalaya State Watershed & Wasteland Development Agency | 543.24 | 1084.23 | 1084.23 |
| (29) Nursery | 0.00 | 55.52 | 55.52 |
| (30) Sloping Agricultural Land Technology | 0.00 | 314.51 | 314.51 |
| TOTAL 102 | 6969.04 | 9338.01 | 8199.96 |
| 109. EXTENSION & TRAINING | | | |

| | | | |
|--|-----------------|-----------------|-----------------|
| (01) Conservation Training Institute | 208.27 | 208.59 | 196.98 |
| (02) Training at Soil Conservation Centre | 323.10 | 324.53 | 302.35 |
| (03) Extension Programme & Info. Services | 16.94 | 19.97 | 14.42 |
| TOTAL 109 | 548.31 | 553.10 | 513.76 |
| 800. OTHER EXPENDITURE | | | |
| (01) Construction of Roads to work areas | 0.00 | 0.00 | 0.00 |
| (06). Meghalaya Commercial Crops Development Board | 54.00 | 55.58 | 55.58 |
| TOTAL 800 | 54.00 | 55.58 | 55.58 |
| TOTAL STATE SCHEMES | 15161.90 | 17598.17 | 15551.15 |
| CENTRALLY SPONSORED SCHEMES | | | |
| 102. SOIL CONSERVATION | | | |
| (14) Integrated Watershed Management Programme (IWMP) (CENTRAL SHARE) | 1140.34 | 5218.00 | 5218.00 |
| (23) Accelerated Irrigation Benefits Programme (AIBP) (CENTRAL SHARE) | 3608.30 | 1155.78 | 902.00 |
| (25) Cherrapunji Eco Restoration | | 0.00 | 0.00 |
| TOTAL 102 | 4748.64 | 6373.78 | 6120.00 |
| TOTAL CENTRALLY SPONSORED SCHEMES | 4748.64 | 6373.78 | 6120.00 |
| EXTERNALLY AIDED PROGRAMME | | | |
| 102. SOIL CONSERVATION | | | |
| (28) Meghalaya State Watershed & Wasteland Development Agency | 1000.00 | 1000.00 | 0.00 |
| TOTAL 102 EAP | 1000.00 | 1000.00 | 0.00 |
| TOTAL 2402 | 20910.54 | 24971.95 | 21671.15 |
| 2415. AGRICULTURAL RESEARCH & EDUCATION | | | |
| 01. Soil Conservation Research Centre | 73.50 | 73.50 | 51.13 |
| TOTAL 2415 | 73.50 | 73.50 | 51.13 |
| TOTAL REVENUE HEAD | 21055.91 | 25133.57 | 21810.39 |
| CAPITAL HEAD | | | |
| 4416 CAPITAL OUTLAY ON HOUSING | | | |

| | | | |
|--|-----------------|-----------------|-----------------|
| 01. GOVERNMENT RESIDENTIAL BUILDING | | | |
| 700. OTHER HOUSING | | | |
| (01) Construction and maintenance of Departmental Residential Building | 0.00 | 0.00 | 0.00 |
| Total (01) | 0.00 | 0.00 | 0.00 |
| TOTAL 4216 | 0.00 | 0.00 | 0.00 |
| 4402. SOIL & WATER CONSERVATION | | | |
| 102. SOIL CONSERVATION | | | |
| (01) Construction of Departmental Non-Residential Building | 645.00 | 645.00 | 113.43 |
| (02) Natural Resources Improvement Intervention | 5.00 | 5.00 | 0.00 |
| Total (02) | 650.00 | 650.00 | 113.43 |
| TOTAL 4402 | 650.00 | 650.00 | 113.43 |
| TOTAL CAPITAL HEAD | 650.00 | 650.00 | 113.43 |
| GRAND TOTAL | 21705.91 | 25783.57 | 21923.82 |

CHAPTER III

3.1. Programmes of the Department

The programmes/schemes implemented by the department include both Centrally Sponsored Schemes as well as State Plan Schemes.

3.1.1. State Plan Schemes

This scheme covers the general areas outside those not specifically covered by other packages of schemes of the Department. Its main objective is to reduce soil erosion hazards and land degradation and conservation of water, where individuals/groups of farmers are targeted. Activities taken up under this Scheme includes:

- i. Erosion Control Works
- ii. Afforestation
- iii. Water Conservation and Distribution Works
- iv. Cash Crop Development Works
- v. Conservation Works in Urban Areas
- vi. Water Harvesting Works/ Farm ponds etc.
- vii. Hi tech Nursery
- viii. Sloping Agricultural Land Technology (SALT)
- ix. Mixed Intercropping
- x. Cocoa & Black Pepper Plantation

3.1.2. Centrally Sponsored Schemes

- i. New Generation Watershed Development Projects under Pradhan Mantri Krishi Sinchayee Yojana-Watershed Development Component 2.0 (PMKSY-WDC-2.0)
- ii. Pradhan Mantri Krishi Sinchayee Yojana Har Khet Ko Pani (PMKSY-HKKP)

1.1.3. Other Schemes Implemented by the Department

- i. Soil and Water Conservation Scheme under Rural Infrastructure Development Fund (RIDF), NABARD Loan

The following schemes/programmes/projects are the currently ongoing projects implemented by the department and are discussed as follows.

3.2. State Plan Schemes/Programmes/Projects:

1. Erosion Control Works:

The scheme is meant to prevent further erosion of cultivated areas along stream bank from direct impact of stream water by construction, retaining wall, spurs, check dam, gully plugs vegetative barriers etc.

Objectives:

- To prevent erosion and degradation of top soil along the slopes.
- To reducing surface run-off.
- To protect cultivated areas along stream bank from direct impact of stream water by.

2. Afforestation:

The Scheme aims at providing vegetation cover to barren hills slopes with the objectives to protect the land from further erosion and to maintain a favourable eco-system through the protective and ameliorative effect of forest cover, to improve the aesthetic beauty of the surroundings; to serve as recreational areas and for sustainable production of fuels, fodder, fruits, fibers, etc.

Objectives:

- providing vegetation cover to barren hills slopes
- to protect the land from further erosion
- to maintain a favourable eco-system through the protective and ameliorative effect of forest cover
- to improve the aesthetic beauty of the surroundings
- to serve as recreational areas and for sustainable production of fuels, fodders, fruits, fibres, etc.,

3.3. 3. Water Conservation and Distribution Works:

The Scheme is meant for construction of Dams, Canals and Aqueduct etc; which can be utilized for irrigation, drinking water and other purposes as required by the village communities.

Objectives:

- For providing drinking water, irrigation facilities, etc.

3.3. 4. Cash Crop Development Works:

The scheme is meant for development of Plantation Crops in different Districts in the State. Cash Crop Plantations are being encouraged in areas where cultivations of other field crops are not feasible due to steep slopes condition, soil fertility status etc.

Objectives:

- Development of plantation crops will act as a cover to protect the soil from erosion and at the same time provide supplementary income to the farmers.

3.3. 5. Conservation Works in Urban Areas:

The scheme is for the construction of different soil and water conservation works in urban and semi-urban areas.

Objectives:

- to conserve water by constructing water harvesting structures, Dug out ponds, water tanks, etc.

3.3. 6. Water Harvesting Works / Farms ponds, etc:

The objective of the scheme is to conserve water by constructing water harvesting structures, dug out ponds, water tanks, etc. The scheme is also meant for prevention of downstream siltation, multi-purpose water use, water conservation dam and water harvesting dam structure will serve as footpath/footbridge. Improvement of micro-environment, ecology, recreational facilities can later be incorporated.

Objectives:

- To conserve water by constructing water harvesting structures; dug out ponds, water tanks, etc.
- Promote livelihood-based activity through the water harvesting structures.

3.3. 7. Hi Tech Nursery:

The scheme is meant for raising and maintaining of planting materials / saplings which are required for various afforestation, etc. activities carried out by the Department.

Objectives:

- Raising of planting stocks.
- Producing quality planting materials, etc.

3.3. 8. Sloping Agriculture Land Technology (SALT):

The project thus aims to introduce improved farming system in the form of **Sloping Agriculture Land Technology (SALT)** where the farmers can incorporate both the existing agriculture crops with forest trees for protection, fruit trees and agriculture crops for income generation and introduction of Nitrogen Fixing Trees & Shrubs (NFTS) for enhancement of soil fertility. The project also aims to facilitate settle farming through terrace cultivation.

Objectives:

- To facilitate Hedgerow farming by introducing Forestry, Horticulture, NFTS and agriculture.
- To facilitate income generation from different crops from a single cropping area.
- To facilitate settle farming through terrace cultivation.
- To facilitate improvement of soil fertility by introducing Nitrogen Fixing Trees and Shrubs as hedgerow.

| <u>ACHIEVEMENT DURING 2022-23</u> | | | | | | | | | | | | | | | | |
|--|---|------------------------------|----------|--------------|---------|-------------|--------|-----------|--------|-----------|--------|-------------|--------|-----------|--------|-----------|
| Name of Scheme | Physical Achievement | Financial Achievement | | | | | | | | | | | | | | |
| 102. SOIL CONSERVATION SCHEME | | | | | | | | | | | | | | | | |
| (04) Erosion Control Works | 3 Nos. | 17,55,800 | | | | | | | | | | | | | | |
| (06) Afforestation | 1st Year Planting (Afforestation) <table border="1"> <tr> <td>2261 Ha.</td> <td>29,38,84,780</td> </tr> </table> 2nd Year Planting (Afforestation) <table border="1"> <tr> <td>672 Ha.</td> <td>3,60,55,488</td> </tr> </table> 2nd Year Planting (Miyawaki Method) <table border="1"> <tr> <td>6 Ha.</td> <td>2,62,200</td> </tr> </table> | | 2261 Ha. | 29,38,84,780 | 672 Ha. | 3,60,55,488 | 6 Ha. | 2,62,200 | | | | | | | | |
| 2261 Ha. | 29,38,84,780 | | | | | | | | | | | | | | | |
| 672 Ha. | 3,60,55,488 | | | | | | | | | | | | | | | |
| 6 Ha. | 2,62,200 | | | | | | | | | | | | | | | |
| (08) Water Conservation & Distribution Works | | | | | | | | | | | | | | | | |
| (09) Cash Crop Development Works | Cash Crop Development Works (Old Ongoing Scheme) (Maintenance only) <table border="1"> <tr> <td>974 Ha.</td> <td>1,89,49,734</td> </tr> </table> 1st year Planting (Cocoa & Black Pepper Plantation) <table border="1"> <tr> <td>30 Ha.</td> <td>53,60,970</td> </tr> </table> 2nd year Planting (Cocoa & Black Pepper Plantation) <table border="1"> <tr> <td>40 Ha.</td> <td>73,56,153</td> </tr> </table> 3rd year Planting (Cocoa & Black Pepper Plantation) <table border="1"> <tr> <td>60 Ha.</td> <td>43,74,204</td> </tr> </table> 1st year Planting (Mixed Intercropping) <table border="1"> <tr> <td>60 Ha.</td> <td>1,04,00,000</td> </tr> </table> 2nd year Planting (Mixed Intercropping) <table border="1"> <tr> <td>30 Ha.</td> <td>10,11,750</td> </tr> </table> 1st year Planting (Packing Leaf) <table border="1"> <tr> <td>10 Ha.</td> <td>13,24,300</td> </tr> </table> | | 974 Ha. | 1,89,49,734 | 30 Ha. | 53,60,970 | 40 Ha. | 73,56,153 | 60 Ha. | 43,74,204 | 60 Ha. | 1,04,00,000 | 30 Ha. | 10,11,750 | 10 Ha. | 13,24,300 |
| 974 Ha. | 1,89,49,734 | | | | | | | | | | | | | | | |
| 30 Ha. | 53,60,970 | | | | | | | | | | | | | | | |
| 40 Ha. | 73,56,153 | | | | | | | | | | | | | | | |
| 60 Ha. | 43,74,204 | | | | | | | | | | | | | | | |
| 60 Ha. | 1,04,00,000 | | | | | | | | | | | | | | | |
| 30 Ha. | 10,11,750 | | | | | | | | | | | | | | | |
| 10 Ha. | 13,24,300 | | | | | | | | | | | | | | | |
| (10) Conservation Works in Urban Areas | | | | | | | | | | | | | | | | |
| (11) Water Harvesting Works / Farm ponds, etc. | 7 Nos. | 99,98,800 | | | | | | | | | | | | | | |
| (12) Avenue Plantation | | | | | | | | | | | | | | | | |
| (19) Jhum Control Scheme | | | | | | | | | | | | | | | | |

| | | |
|---|---|-------------|
| (24) Maintenance of Roads to Works Areas | 1 No Foot Bridge & Black Topping of 295 Meter | 22,57,000 |
| (29) Nursery | 3,00,000 Nos. | 55,51,725 |
| (30) Sloping Agriculture Land Technology (SALT) | 1st Year Planting SALT 120 Ha. Land Development 150 Ha. Check Dam 7 Nos. | 3,14,50,750 |

3.3. Centrally Sponsored Schemes

3.3.1. New Generation Watershed Development Projects under Pradhan Mantri Krishi Sinchayee Yojana – Watershed Development Component 2.0 (PMKSY-WDC-2.0). Funded by Dept. of Land Resources, Ministry of Rural Development; Government of India

Key features:

- Focus on agro-ecology, rejuvenation of natural springs, livelihood opportunities, risk management, and institutional development.

Objectives:

- To treat degraded lands and develop rainfed areas through watershed management practices.
- To improve water use efficiency and enhance agricultural productivity in rainfed regions.
- To reduce dependence on groundwater and promote sustainable water resource management.
- To create sustainable livelihood opportunities for rural communities, particularly women and marginalized groups.
- To contribute to climate change mitigation and adaptation by restoring ecological balance and promoting sustainable land use practices.

Pradhan Mantri Krishi Sinchayee Yojana - Watershed Development Component 2.0 (PMKSY-WDC 2.0) focuses on soil and water conservation through land management in rural areas of country.

- Natural Resource Management: Proper management of nature helps to conserve it and in turn, offer benefits such as the maintenance of soil health, restored water levels thus encouraging sustained productivity with Agriculture.
- Improved Agricultural Production: Water conservation and irrigation, soil fertility management leads to improved agricultural production.
- Training Programmes: WDC 2.0 provides training programs to skill the rural populace on topics related to sustainable agriculture, water management and micro entrepreneurship.
- Self-Help Groups (SHG): The programme facilitates the formation of Self-Help Groups (SHG) which undertake different income generating activities like vermi-composting, bee-keeping or small-scale food processing enterprises. Financial assistance is also given, which helps them start or expand their business that will further make beneficial changes into their life.
- Focus on Gender Equality: The programme emphasizes on gender equality by ensuring that women have equal access to resources, benefits in the watershed activities, providing them with income-generating livelihood opportunities and roles in decision-making within their communities.

Implementation:

- The program is implemented by the Department of Land Resources under the Ministry of Rural Development.
- Central financial assistance is provided to states and union territories for implementing watershed development projects.
- State governments play a crucial role in identifying suitable watersheds, preparing project proposals, and overseeing the implementation of activities.
- Local communities are actively involved in the planning, implementation, and management of watershed projects, ensuring their ownership and sustainability.

Expected outcomes:

- Increased agricultural productivity and income for farmers in rainfed regions.
- Improved water security and reduced dependence on groundwater.
- Enhanced ecological resilience and biodiversity conservation.

- Improved livelihoods and quality of life for rural communities.
- Contribution to achieving the Sustainable Development Goals related to poverty, hunger, water, and climate action.

A total of 28 projects has been sanctioned all throughout the state during the year 2021-22 for a period of five (5) years amounting total project cost of Rs.15324.4 Lakh. Additionally, 4 Nos. of project sanctioned in the year 2022-23 with a total cost of Rs.2240 Lakh.

List of projects under New Generation Watershed Development Project (WDC-PMKSY 2.0)

| Sl. No. | Name of District | Name of Project | Total Project Cost (Rs. in crores) | Expenditure during the Year 2022-2023 | Cummulative Expenditure upto 2022-23 | Balance |
|----------------|-------------------------|----------------------------------|---|--|---|-------------------|
| a | b | c | d | e | f | g |
| 1 | West Khasi Hills | West Khasi Hills-WDC-1/2021-22 | 3.50 | 0.8798992 | 0.8798992 | 2.6201008 |
| | | West Khasi Hills-WDC-2/2021-22 | 3.50 | 0.9156746 | 0.9156746 | 2.5843254 |
| 2 | Eastern Khasi Hills | West Khasi Hills-WDC-3/2021-22 | 3.50 | 1.1507585 | 1.1507585 | 2.3492415 |
| | | West Khasi Hills-WDC-4/2021-22 | 3.50 | 1.0890504 | 1.0890504 | 2.4109496 |
| | | Sub Total | 14 | 4.0353827 | 4.0353827 | 9.9646173 |
| 3 | East Jaintia Hills | East Jaintia Hills-WDC-1/2021-22 | 9.66 | 0.8095113 | 0.8095113 | 8.8504887 |
| | | East Jaintia Hills-WDC-2/2021-22 | 4.20 | 0.5428324 | 0.5428324 | 3.6571676 |
| | | Sub Total | 13.86 | 1.3523437 | 1.3523437 | 12.5076563 |
| 4 | East Garo Hills | East Garo Hills-WDC-1/2021-22 | 5.04 | 1.292161 | 1.292161 | 3.7478390 |
| | | East Garo Hills-WDC-2/2021-22 | 4.20 | 1.0665727 | 1.0665727 | 3.1334273 |
| | | East Garo Hills-WDC-3/2021-22 | 4.76 | 1.2164362 | 1.2164362 | 3.5435638 |
| | | Sub Total | 14 | 3.5751699 | 3.5751699 | 10.4248301 |
| 5 | West Jaintia Hills | West Jaintia Hills-WDC-1/2021-22 | 6.72 | 1.2131652 | 1.2131652 | 5.5068348 |
| | | West Jaintia Hills-WDC-2/2021-22 | 7.28 | 1.194898 | 1.194898 | 6.0851020 |
| | | West Jaintia Hills-WDC-3/2022-23 | 5.6 | 0 | 0 | 5.6000000 |
| | | Sub Total | 19.6 | 2.4080632 | 2.4080632 | 17.1919368 |

| | | | | | | |
|----|------------------------|--------------------------------------|---------------|------------------|------------------|-------------------|
| 6 | North Garo Hills | North Garo Hills-WDC-1/2021-22 | 4.48 | 1.3723929 | 1.3723929 | 3.1076071 |
| | | North Garo Hills-WDC-2/2021-22 | 4.76 | 1.46211 | 1.46211 | 3.2978900 |
| | | North Garo Hills-WDC-3/2021-22 | 4.76 | 0.9470779 | 0.9470779 | 3.8129221 |
| | | Sub Total | 14 | 3.7815808 | 3.7815808 | 10.2184192 |
| 7 | South West Khasi Hills | South West Khasi Hills-WDC-1/2021-22 | 6.58 | 1.9856864 | 1.9856864 | 4.5943136 |
| | | South West Khasi Hills-WDC-2/2021-22 | 6.86 | 1.4967661 | 1.4967661 | 5.3632339 |
| | | South West Khasi Hills-WDC-3/2022-23 | 5.6 | 0 | 0 | 5.6000000 |
| | | Sub Total | 19.04 | 3.4824525 | 3.4824525 | 15.5575475 |
| 8 | West Garo Hills | West Garo Hills-WDC-1/2021-22 | 8.12 | 2.9159587 | 2.9159587 | 5.2040413 |
| | | West Garo Hills-WDC-2/2021-22 | 5.88 | 2.1406833 | 2.1406833 | 3.7393167 |
| | | West Garo Hills-WDC-3/2022-23 | 5.6 | 0 | 0 | 5.6000000 |
| | | Sub Total | 19.6 | 5.056642 | 5.056642 | 14.5433580 |
| 9 | East Khasi Hills | East Khasi Hills-WDC-1/2021-2022 | 4.76 | 0.6382416 | 0.6382416 | 4.1217584 |
| | | East Khasi Hills-WDC-2/2021-2022 | 4.70 | 0.8742132 | 0.8742132 | 3.8297868 |
| | | East Khasi Hills-WDC-3/2021-2022 | 4.48 | 0.6748282 | 0.6748282 | 3.8051718 |
| | | Sub Total | 13.944 | 2.187283 | 2.187283 | 11.7567170 |
| 10 | South Garo Hills | South Garo Hills-WDC-1/2021-22 | 7.28 | 3.0400429 | 3.0400429 | 4.2399571 |
| | | South Garo Hills-WDC-2/2021-22 | 6.72 | 2.2622613 | 2.2622613 | 4.4577387 |

| | | | | | | |
|----|-----------------------|-------------------------------------|---------------|------------------|-------------------|--------------------|
| | | South Garo Hills-WDC-3/2022-23 | 5.6 | 0 | 0 | 5.6000000 |
| | | Sub Total | 19.6 | 5.3023042 | 5.3023042 | 14.2976958 |
| 11 | Ri Bhoi | Ri Bhoi-WDC-1/2021-22 | 8.40 | 0.6792631 | 0.6792631 | 7.7207369 |
| | | Ri Bhoi-WDC-2/2021-22 | 5.60 | 0.5322811 | 0.5322811 | 5.0677189 |
| | | Sub Total | 14 | 1.2115442 | 1.2115442 | 12.7884558 |
| 12 | South West Garo Hills | South West Garo Hills-WDC-1/2021-22 | 5.60 | 1.7950915 | 1.7950915 | 3.8049085 |
| | | South West Garo Hills-WDC-2/2021-22 | 3.92 | 1.320085 | 1.320085 | 2.5999150 |
| | | South West Garo Hills-WDC-3/2021-22 | 4.48 | 1.3969737 | 1.3969737 | 3.0830263 |
| | | Sub Total | 14 | 4.5121502 | 4.5121502 | 9.4878498 |
| | | Grand Total | 32 Nos | 175.644 | 36.9049164 | 138.7390836 |

Meghalaya State Watershed and Wasteland Development Authority (MSWWDA)

For the state of Meghalaya and the implementation of watershed Development projects, the SLNA was constituted on 25th June 2009, called the Meghalaya State Watershed & Wasteland Development Agency (MSWWDA) which has been registered under the Meghalaya Societies Registration Act, XII of 1983.

The main functions of the MSWWDA are:

- Prepare the State Perspective and Strategic Plan of watershed development of the state
- Establish and maintain a State Level Data Cell from funds sanctioned by the Government of India
- Provide technical support to the Watershed Cell cum Data Centre
- Approve independent institutions for capacity building and work out the overall capacity building strategy
- Approve Project Implementing Agencies (PIAs) identified/selected by District Level Committee by adopting appropriate objective selection criteria and transparent system
- Establish monitoring, evaluation and learning systems at various levels
- Ensure regular and quality online monitoring of watershed projects in the state
- Prepare State Specific Process Guidelines, Technology Manuals, etc. in coordination with the Nodal Ministry/NRAA and operationalize the same.

3.3.2. Pradhan Mantri Krishi Sinchayee Yojana Har Khet Ko Pani (PMKSY-HKKP)

The Surface Minor Irrigation (SMI) schemes with irrigation potential less than 2000 Hectare were included under Accelerated Irrigation Benefit Programme (AIBP) for providing Central Assistance (CA) since 1999-2000 for Special Category States including Meghalaya with Central Assistance of 90% and 10% State Share.

The aims and objectives of this scheme are: -

- To provide assured water availability all year round for agriculture and allied activities.
- Enhance the productivity level of land and water resources in the context of irrigated agriculture and its allied activities.

- Improve the socio-economic set up of the people within the Project Area.

However, since the Financial Year 2015-16, the SMI Schemes were brought under the umbrella of Pradhan Mantri Krishi Sinchayee Yojana – Har Khet Ko Pani (PMKSY-HKKP).

The project components include the following works

- Irrigation Dams / Water Distribution Structures.
 - Irrigation Channels, Aqueducts, etc.
 - Water Harvesting Structures.
 - Protection Walls / Retaining Walls of cultivated fields, i.e., of Stone Masonry, Gabion Structure, Spurs, etc.

map showing the location of 42 ongoing projects under the Pradhan Mantri Krishi Sinchayee Yojana that will receive accelerated mitigation benefits from 2018 onwards.

| STATEMENT SHOWING THE PROGRESS OF THE 42 NOS. ONGOING SMI SCHEMES UNDER PMKSY-HKKP | | | | | | | | | | | | | | | | | | | |
|--|--------------------|-------------------------------|-------|--------|---|-------|-------|-------------------------------------|----|--------|---------------|--------|-------|---------------------------------|---------------|-----------|------------------------|--------------|-------------------|
| Name of District & Project | Name of C&RD Block | Total Project Cost Sanctioned | | | Total Potential Irrigation Area to be created | | | Expenditure Incurred during 2022-23 | | | UPTO 2022-23 | | | Cumulative Expenditure Incurred | | | Potential created upto | BALANCE FUND | Balance Potential |
| | | CS | SS | Total | CS | SS | Total | CS | SS | Total | CS | SS | Total | (Rs. in Lakh) | (Rs. in Lakh) | (Hectare) | (Rs. in Lakh) | (Hectare) | (Rs. in Lakh) |
| | | (Rs. in Lakh) | | | (Hectare) | | | (Rs. in Lakh) | | | (Rs. in Lakh) | | | (Hectare) | | | (Rs. in Lakh) | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| East Khasi Hills | | | | | | | | | | | | | | | | | | | |
| Umladew | Mawryngkneng | 113.28 | 12.59 | 125.87 | 260 | 5.08 | 0.56 | 5.64 | 12 | 58.43 | 6.49 | 64.92 | 134 | 54.85 | 6.1 | 60.95 | 126 | | |
| Wah Khimmurah | Mawphlang | 204.13 | 22.68 | 226.81 | 151.2 | 9.14 | 1.02 | 10.16 | 7 | 105.27 | 11.7 | 116.97 | 78 | 98.86 | 10.98 | 109.84 | 73.2 | | |
| Wahlyrkhang | Mawphlang | 246.41 | 27.38 | 273.79 | 184 | 11.04 | 1.23 | 12.27 | 8 | 127.08 | 14.13 | 141.21 | 95 | 119.33 | 13.25 | 132.58 | 89 | | |
| Umrangshim-Umjapieh | Mawkynrew | 571.55 | 63.51 | 635.06 | 431 | 25.61 | 2.84 | 28.45 | 19 | 294.78 | 32.75 | 327.53 | 222 | 276.77 | 30.76 | 307.53 | 209 | | |
| Umphaliang-Wah Jarot | Mawryngkneng | 368.03 | 40.89 | 408.92 | 280 | 16.49 | 1.83 | 18.32 | 13 | 189.82 | 21.1 | 210.92 | 145 | 178.21 | 19.79 | 198 | 135 | | |
| West Khasi Hills | | | | | | | | | | | | | | | | | | | |
| Upper Khri | Mairang | 502.59 | 55.84 | 558.43 | 367 | 22.52 | 2.5 | 25.02 | 16 | 259.22 | 28.8 | 288.02 | 188 | 243.37 | 27.04 | 270.41 | 179 | | |
| Langdongdai | Mawsyrrut | 176.44 | 19.6 | 196.05 | 136 | 7.9 | 0.88 | 8.78 | 6 | 91 | 10.11 | 101.11 | 69 | 85.44 | 9.49 | 94.94 | 67 | | |
| South West Khasi Hills | | | | | | | | | | | | | | | | | | | |
| Umkyntia | Mawkyr wat | 349.97 | 38.89 | 388.86 | 374 | 15.68 | 1.74 | 17.42 | 17 | 180.51 | 20.05 | 200.56 | 194 | 169.46 | 18.84 | 188.3 | 180 | | |

| | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|--------|-------|--------|--------|-------|------|-------|----|--------|-------|--------|-----|--------|-------|--------|--------|
| Upper Umriang | Nawkywat | 815.37 | 90.6 | 905.97 | 607 | 36.53 | 4.06 | 40.59 | 27 | 420.54 | 46.72 | 467.26 | 312 | 394.83 | 43.88 | 438.71 | 295 |
| <i>Ri-Bhoi</i> | | | | | | | | | | | | | | | | | |
| Umsaw | Umling | 403.2 | 44.8 | 448 | 500 | 18.06 | 2.01 | 20.07 | 22 | 207.96 | 23.1 | 231.06 | 258 | 195.24 | 21.7 | 216.94 | 242 |
| Middle Umrar | Umsning | 401.49 | 44.61 | 446.1 | 260 | 17.99 | 2 | 19.99 | 12 | 207.08 | 23.01 | 230.09 | 134 | 194.41 | 21.6 | 216.01 | 126 |
| Umkei | Umsning | 300.4 | 33.38 | 334.78 | 219 | 13.46 | 1.49 | 14.95 | 10 | 154.94 | 17.2 | 172.14 | 114 | 145.46 | 16.18 | 161.64 | 105 |
| Amparling | Umling | 812.8 | 90.31 | 903.11 | 590 | 36.41 | 4.05 | 40.46 | 26 | 419.2 | 46.59 | 465.79 | 304 | 393.6 | 43.72 | 437.32 | 286 |
| <i>North Garo Hills</i> | | | | | | | | | | | | | | | | | |
| Middle Ildekk | Kharkutta | 354.38 | 39.37 | 393.75 | 262.5 | 15.88 | 1.76 | 17.64 | 12 | 182.78 | 20.3 | 203.08 | 135 | 171.6 | 19.07 | 190.67 | 127.5 |
| Middle Chil | Kharkutta | 440.85 | 48.98 | 489.83 | 326.55 | 19.75 | 2.2 | 21.95 | 15 | 227.37 | 25.26 | 252.63 | 168 | 213.48 | 23.72 | 237.2 | 158.55 |
| Rajing | Resubelpara | 567 | 63 | 630 | 420 | 25.41 | 2.82 | 28.23 | 19 | 292.45 | 32.49 | 324.94 | 216 | 274.55 | 30.51 | 305.06 | 204 |
| <i>West Garo Hills</i> | | | | | | | | | | | | | | | | | |
| Mongaligre-Dichinggre | Dadenggre | 240.97 | 26.78 | 267.75 | 178.5 | 10.8 | 1.2 | 12 | 8 | 124.29 | 13.81 | 138.1 | 93 | 116.68 | 12.97 | 129.65 | 85.5 |
| Middle Grim | Dalu | 418.17 | 46.46 | 464.63 | 310 | 18.74 | 2.08 | 20.82 | 14 | 215.67 | 23.97 | 239.64 | 160 | 202.5 | 22.49 | 224.99 | 150 |
| Bakla | Dalu | 862.74 | 95.86 | 958.6 | 638.4 | 38.65 | 4.3 | 42.95 | 29 | 444.96 | 49.45 | 494.41 | 329 | 417.78 | 46.41 | 464.19 | 309.4 |
| Dongdonga | Selsella | 878.85 | 97.65 | 976.5 | 651 | 39.38 | 4.37 | 43.75 | 29 | 453.28 | 50.37 | 503.65 | 335 | 425.57 | 47.28 | 472.85 | 316 |
| Lower Pilgi | Selsella | 576 | 64 | 640 | 426.7 | 25.8 | 2.87 | 28.67 | 19 | 297.08 | 33.01 | 330.09 | 220 | 278.92 | 30.99 | 309.91 | 206.7 |
| Roni-Dabong | Tikrikilla | 708.75 | 78.75 | 787.5 | 525 | 31.75 | 3.53 | 35.28 | 24 | 365.54 | 40.62 | 406.16 | 272 | 343.21 | 38.13 | 381.34 | 253 |

| | | | | | | | | | | | | | | | | | |
|---------------------------|--------------|---------|--------|---------|-----|-------|------|-------|----|--------|-------|--------|-----|--------|-------|--------|-----|
| South West Garo Hills | | | | | | | | | | | | | | | | | |
| Muji | Betasing | 1034.53 | 114.95 | 1149.48 | 728 | 46.35 | 5.15 | 51.5 | 33 | 533.57 | 59.29 | 592.86 | 375 | 500.96 | 55.66 | 556.62 | 353 |
| <i>South Garo Hills</i> | | | | | | | | | | | | | | | | | |
| Nengkong Rengdik | Baghmara | 305.27 | 33.92 | 339.19 | 700 | 15.52 | 1.72 | 17.24 | 31 | 137.59 | 15.29 | 152.88 | 311 | 167.68 | 18.63 | 186.31 | 389 |
| Dareng Warima | Chokpot | 1367.56 | 151.95 | 1519.51 | 965 | 58.14 | 6.46 | 64.6 | 43 | 739.18 | 82.14 | 821.32 | 522 | 628.38 | 69.81 | 698.2 | 443 |
| Lower Bugi | Gasuapara | 1267.37 | 140.82 | 1408.19 | 894 | 53.48 | 5.94 | 59.42 | 40 | 689.44 | 76.6 | 766.05 | 486 | 577.93 | 64.22 | 642.14 | 408 |
| Rongai | Rongara | 764.76 | 84.97 | 849.73 | 540 | 38.87 | 4.32 | 43.19 | 24 | 344.68 | 38.3 | 382.98 | 240 | 420.08 | 46.67 | 466.75 | 300 |
| <i>East Jaintia Hills</i> | | | | | | | | | | | | | | | | | |
| Lower Myntdu | Khlehnat | 512.37 | 56.93 | 569.3 | 449 | 22.96 | 2.55 | 25.51 | 20 | 264.27 | 29.37 | 293.64 | 232 | 248.1 | 27.56 | 275.66 | 217 |
| <i>West Jaintia Hills</i> | | | | | | | | | | | | | | | | | |
| Upper Umplu | Thadlaschein | 413.14 | 45.9 | 459.04 | 310 | 18.27 | 2.03 | 20.3 | 14 | 215.73 | 23.96 | 239.7 | 163 | 197.41 | 21.94 | 219.34 | 147 |
| Middle Myntdu | Thadlaschein | 889.15 | 98.8 | 987.95 | 660 | 40.44 | 4.5 | 44.94 | 30 | 452.03 | 50.23 | 502.25 | 342 | 437.12 | 48.57 | 485.7 | 318 |
| | Khliehriat | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|----------------|---------------|--------------|----------------|------------|---------------|----------------|------------|----------------|----------------|----------------|-------------|----------------|-----------------|----------------|----------------|
| Amrayang Umshyru | Amlarem | 359.36 | 39.93 | 399.29 | 290 | 15.97 | 1.77 | 17.74 | 13 | 186.83 | 20.76 | 207.58 | 151 | 172.53 | 19.18 | 191.71 | 139 |
| Parmpuijang Cluster | Thadlaskein | 322.75 | 35.86 | 358.62 | 292 | 13.61 | 1.51 | 15.12 | 13 | 175.66 | 19.5 | 195.16 | 154 | 147.1 | 16.36 | 163.45 | 138 |
| Wah Synshar Cluster | Thadlaskein | 242.94 | 26.99 | 265.94 | 216 | 12.35 | 1.37 | 13.72 | 10 | 109.5 | 12.16 | 121.66 | 96 | 133.44 | 14.83 | 148.28 | 120 |
| Thlu Ummulong Cluster | Thadlaskein | 406.02 | 45.11 | 451.14 | 371 | 17.23 | 1.91 | 19.14 | 17 | 219.91 | 24.43 | 244.34 | 196 | 186.11 | 20.68 | 206.79 | 175 |
| Umpawai Cluster | Thadlaskein | 522.9 | 58.1 | 581 | 441 | 23.96 | 2.66 | 26.62 | 20 | 263.99 | 29.33 | 293.31 | 225 | 258.91 | 28.77 | 287.69 | 216 |
| Nariang Cluster | Thadlaskein | 190.82 | 21.2 | 212.02 | 170 | 7.48 | 0.83 | 8.31 | 8 | 109.94 | 12.22 | 122.16 | 93 | 80.87 | 8.99 | 89.86 | 77 |
| Nongngi Cluster | Thadlaskein | 92.65 | 10.29 | 102.95 | 83 | 3.99 | 0.45 | 4.44 | 4 | 49.43 | 5.5 | 54.93 | 44 | 43.22 | 4.79 | 48.01 | 39 |
| Wah Sabkhat Cluster | Thadlaskein | 412.03 | 45.78 | 457.81 | 528 | 20.14 | 2.24 | 22.38 | 24 | 194.29 | 21.6 | 215.89 | 256 | 217.74 | 24.18 | 241.93 | 272 |
| Sasam Cluster | Thadlaskein | 264.64 | 29.4 | 294.05 | 236 | 11.38 | 1.27 | 12.65 | 11 | 141.59 | 15.74 | 157.33 | 125 | 123.05 | 13.67 | 136.72 | 111 |
| Myntwa Cluster | Laskein | 217.93 | 24.21 | 242.15 | 175 | 9.37 | 1.04 | 10.41 | 8 | 116.72 | 12.96 | 129.69 | 94 | 101.21 | 11.25 | 112.46 | 81 |
| Wai Yiangkar Cluster | Laskein | 182.69 | 20.3 | 202.99 | 149 | 7.89 | 0.88 | 8.77 | 7 | 97.37 | 10.81 | 108.18 | 80 | 85.33 | 9.49 | 94.81 | 69 |
| Wai Sawian Cluster | Laskein | 49.77 | 5.53 | 55.3 | 42 | 2.53 | 0.28 | 2.81 | 2 | 22.43 | 2.49 | 24.92 | 18 | 27.34 | 3.04 | 30.38 | 24 |
| Grand Total : 42 Nos. | | 20132.1 | 2236.9 | 22369 | 16336.9 | 902 | 100.22 | 1002.22 | 736 | 10383.4 | 1153.71 | 11537.1 | 8378 | 9748.65 | 10831.19 | 10831.8 | 7958.85 |

3.4 Other Schemes Implemented by the Department

3.4.1 Soil & Water Conservation Schemes under NABARD:

The main objective of the National Bank for Agriculture and Rural Development (NABARD) projects is for promoting sustainable and equitable agriculture and rural development through effective credit support, related services, institution building and other innovative initiatives.

Aims and Objectives

- To reduce land degradation through soil and moisture conservation works.
- To provide assured water availability to the agriculture lands.
- To protect agriculture lands from stream bank erosion.
- To enhance the overall productivity of arable land.

Project Intervention

To achieve the above aims and objectives, construction of the following Soil & Water Conservation Structures is taken up: -

- Small Multipurpose Reservoirs / Water Harvesting Structures / Farm Ponds.
- Head Water Dam / Diversion Dam, etc.
- Irrigation Channel
- Protection Wall / Retaining Wall / Gabion Structure.
- Bench Terraces / Contour Bund.
- Improvement of existing paddy fields, etc.

As, it is not financially viable to continue with the schemes with the current prevailing rates of the essential raw materials used in the construction process and it may be mentioned that the cost and inflation it is not possible at all to implement the balance works under these circumstances.

In this regard and as per the advice of the State Government that since the projects are beyond 10 (ten) years, it would be prudent to inform that the projects be foreclosed.

Remarks:

Hence, this office has written to the Office of the Chief Engineer, Barak & Other Basins Organization, Central Water Commission, Bark Point, Shillong for the foreclosure of the 42 nos. Projects vide letter No.Meg/Soil-12/474(Pt.IV)/2805, dated 27th July, 2023.

STATEMENT SHOWING THE PROGRESS OF THE 12 NOS. PROJECTS UNDER RIDF-XXV

Year of Commencement: 2020-21.

| Sl. No. | Name of Project | Name of District | Name of Block | Total Project Cost | | | Area to be treated (Hectare) | Expenditure incurred during (₹. In Lakhs) | 2022-23 Treated during (Hectare) | Cumulative incurred (₹. In Lakhs) | 2022-23 Expenditure (₹. In Lakhs) | Area Treated upto 2022-23 (Hectare) | | | |
|------------|---|---------------------------------|---|--------------------|----------------|--------|---------------------------------------|--|---|---|---|---|-------|--------|--------|
| | | | | NABARD Loan | State Share | Total | | | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| 1 | Lyngdoh Nongbri Catchment Protection Works cum Eco-Tourism Development, Laitryngew | East Khasi Hills | 1.Shella- Bholaganj 2.Khatarshmong- Laitkroh | 33.54 | 1.77 | 35.31 | 15.00 | 13.41 | 0.71 | 14.12 | 5.00 | 33.54 | 1.77 | 35.31 | 15.00 |
| 2 | Upper Phodpyntho | South West Khasi Hills | Mawkyrwat | 84.86 | 4.47 | 89.33 | 44.60 | 33.94 | 1.78 | 35.72 | 18.60 | 84.86 | 4.47 | 89.33 | 44.60 |
| 3 | Kyrshai Cluster II | West Khasi Hills | Nongstoin | 24.38 | 1.28 | 25.66 | 25.70 | 9.75 | 0.52 | 10.27 | 9.70 | 24.38 | 1.28 | 25.66 | 25.70 |
| 4 | Umdap | Ri-Bhoi | Umling | 85.50 | 4.50 | 90.00 | 39.00 | 34.18 | 1.80 | 35.98 | 15.00 | 85.50 | 4.50 | 90.00 | 39.00 |
| 5 | Upper Umpyoid | East Jaintia Hills | Saibung | 24.39 | 1.28 | 25.67 | 10.50 | 9.75 | 0.50 | 10.25 | 4.50 | 24.39 | 1.28 | 25.67 | 10.50 |
| 6 | Moolatyab | West Jaintia Hills | Thadlaskein | 201.49 | 10.60 | 212.09 | 145.00 | 80.55 | 4.24 | 84.79 | 57.00 | 201.49 | 10.60 | 212.09 | 145.00 |
| 7 | Wahshangpet | West Jaintia Hills | Thadlaskein | 189.94 | 10.00 | 199.94 | 84.00 | 75.94 | 4.00 | 79.94 | 34.00 | 189.94 | 10.00 | 199.94 | 84.00 |
| 8 | Dalbot | East Garo Hills | Samanda | 85.50 | 4.50 | 90.00 | 90.00 | 34.18 | 1.80 | 35.98 | 36.00 | 85.50 | 4.50 | 90.00 | 90.00 |
| 9 | Drong Rompa | South Garo Hills | Gasuapara | 85.50 | 4.50 | 90.00 | 80.38 | 34.18 | 1.80 | 35.98 | 32.38 | 85.50 | 4.50 | 90.00 | 80.38 |
| 10 | Chibonga | North Garo Hills | Kharkutta | 24.38 | 1.28 | 25.66 | 20.00 | 9.75 | 0.52 | 10.27 | 8.00 | 24.38 | 1.28 | 25.66 | 20.00 |
| 11 | Masugrong | West Garo Hills | Rongram | 24.39 | 1.28 | 25.67 | 15.66 | 9.75 | 0.50 | 10.25 | 5.66 | 24.39 | 1.28 | 25.67 | 15.66 |
| 12 | Tewali | South West Garo Hills | Zikzak | 85.50 | 4.50 | 90.00 | 65.40 | 34.18 | 1.80 | 35.98 | 25.40 | 85.50 | 4.50 | 90.00 | 65.40 |
| | Grand Total : 12 nos. | | | 949.37 | 49.96 | 999.33 | 635.24 | 379.56 | 19.97 | 399.53 | 251.24 | 949.37 | 49.96 | 999.33 | 635.24 |
| | Note: All the above 12 projects are ongoing and will be completed during FY 2022-23. | | | | | | | | | | | | | | |

| Sl. No. | Name of District | Name of Block | Area to be treated (Hectare) | | | NABARD Loan | State Share | Total (Hectare) | 2022-23 NABARD Loan | State Share | Total (Hectare) | 2022-23 Treated upto (Hectare) | | | |
|------------|---|--------------------------------|---------------------------------------|----------------|--------|----------------|----------------|--------------------|---------------------------|----------------|--------------------|---|--------|--------|------|
| | | | NABARD Loan | State Share | Total | | | | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| 6 | Thadlaskein | West Jaintia Hills | 201.49 | 10.60 | 212.09 | 145.00 | 80.55 | 4.24 | 84.79 | 57.00 | 201.49 | 10.60 | 212.09 | 145.00 | |
| 7 | Thadlaskein | West Jaintia Hills | 189.94 | 10.00 | 199.94 | 84.00 | 75.94 | 4.00 | 79.94 | 34.00 | 189.94 | 10.00 | 199.94 | 84.00 | |
| 8 | Samanda | East Garo Hills | 85.50 | 4.50 | 90.00 | 90.00 | 34.18 | 1.80 | 35.98 | 36.00 | 85.50 | 4.50 | 90.00 | 90.00 | |
| 9 | Gasuapara | South Garo Hills | 85.50 | 4.50 | 90.00 | 80.38 | 34.18 | 1.80 | 35.98 | 32.38 | 85.50 | 4.50 | 90.00 | 80.38 | |
| 10 | Kharkutta | North Garo Hills | 24.38 | 1.28 | 25.66 | 20.00 | 9.75 | 0.52 | 10.27 | 8.00 | 24.38 | 1.28 | 25.66 | 20.00 | |
| 11 | Rongram | South Zikzak | 24.39 | 1.28 | 25.67 | 15.66 | 9.75 | 0.50 | 10.25 | 5.66 | 24.39 | 1.28 | 25.67 | 15.66 | |
| 12 | Tewali | South West Garo Hills | 85.50 | 4.50 | 90.00 | 65.40 | 34.18 | 1.80 | 35.98 | 25.40 | 85.50 | 4.50 | 90.00 | 65.40 | |
| | Grand Total : 12 nos. | | 949.37 | 49.96 | 999.33 | 635.24 | 379.56 | 19.97 | 399.53 | 251.24 | 949.37 | 49.96 | 999.33 | 635.24 | |
| | Note: All the above 12 projects are ongoing and will be completed during FY 2022-23. | | | | | | | | | | | | | | |

STATEMENT SHOWING THE PROGRESS OF THE 21 NOS. RVPs UNDER SOIL CONSERVATION SCHEMES UNDER NABARD

RIDE-XXVI

Year of Commencement: 2020-21.

| Sl. No. | Name of Project | Name of District | C&RD Block | Total Project Cost (`. In Lakhs) | | | Area to be treated (Hectare) | Expenditure incurred during 2022-23 (`. In Lakhs) | | | Area to be treated during 2022-23 (Hectare) | Cumulative Expenditure incurred UPTO 2022-23 (`. In Lakhs) | | | Area treated 2022-23 (Hectare) |
|---------|----------------------------------|------------------|--|-------------------------------------|----------------|----------------|---------------------------------|---|----------------|---------------|---|--|----------------|----------------|--------------------------------------|
| | | | | NABARD Loan | State Share | Total | | NABARD Loan | State Share | Total | | NABARD Loan | State Share | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | Asil RVP | EGH | Songsak | 24.00 | 1.26 | 25.26 | 12.00 | 6.19 | 0.70 | 6.89 | 4.00 | 24.00 | 1.26 | 25.26 | 12.00 |
| 2 | Bolkingre RVP | EGH | Samanda | 58.33 | 3.07 | 61.40 | 27.50 | 15.04 | 1.71 | 16.75 | 7.50 | 58.33 | 3.07 | 61.40 | 27.50 |
| 3 | Gabil Danningka RVP | EGH | Rongtieng | 22.17 | 1.17 | 23.34 | 10.00 | 5.72 | 0.65 | 6.37 | 3.00 | 22.17 | 1.17 | 23.34 | 10.00 |
| 4 | Old Musiang Lamare RVP | EIH | Khliehriat | 47.50 | 2.50 | 50.00 | 20.00 | 12.25 | 1.39 | 13.64 | 5.00 | 47.50 | 2.50 | 50.00 | 20.00 |
| 5 | Umpaitmau-Sangmein RVP | EKH | Myliem | 47.50 | 2.50 | 50.00 | 21.00 | 12.35 | 1.40 | 13.75 | 6.00 | 47.50 | 2.50 | 50.00 | 21.00 |
| 6 | Umtongsyiem-Umjiilieng RVP | EKH | Myliem | 142.50 | 7.50 | 150.00 | 74.00 | 37.05 | 4.20 | 41.25 | 20.00 | 142.50 | 7.50 | 150.00 | 74.00 |
| 7 | Umlynter-Sonatola RVP | EKH | Mawsynram | 95.00 | 5.00 | 100.00 | 13.00 | 24.08 | 2.77 | 26.85 | 36.00 | 95.00 | 5.00 | 100.00 | 132.00 |
| 8 | Chilchora RVP | NGH | Resubelpara | 33.25 | 1.75 | 35.00 | 20.00 | 0.00 | 0.75 | 0.75 | 5.00 | 33.25 | 1.75 | 35.00 | 20.00 |
| 9 | Rongbu RVP | NGH | Kharkutta | 33.25 | 1.75 | 35.00 | 25.00 | 17.16 | 1.19 | 18.35 | 7.00 | 33.25 | 1.75 | 35.00 | 25.00 |
| 10 | Umsha RVP | RB | Umsning | 95.00 | 5.00 | 100.00 | 59.00 | 24.49 | 2.80 | 27.29 | 16.00 | 95.00 | 5.00 | 100.00 | 59.00 |
| 11 | Chitmany Chaiwat RVP | SGH | Baghmara | 120.65 | 6.35 | 127.00 | 70.00 | 31.11 | 3.55 | 34.66 | 19.00 | 120.65 | 6.35 | 127.00 | 70.00 |
| 12 | Malchapara RVP | SWGH | Betasing | 76.00 | 4.00 | 80.00 | 32.00 | 19.60 | 2.23 | 21.83 | 9.00 | 76.00 | 4.00 | 80.00 | 32.00 |
| 13 | Sngelmitnah RVP | SWKH | Mawkyrwat | 66.50 | 3.50 | 70.00 | 55.00 | 17.15 | 1.95 | 19.10 | 15.00 | 66.50 | 3.50 | 70.00 | 55.00 |
| 14 | Sakal RVP | WGH | Rongram | 47.50 | 2.50 | 50.00 | 25.00 | 17.25 | 1.69 | 18.94 | 7.00 | 47.50 | 2.50 | 50.00 | 25.00 |
| 15 | Dakura RVP | WGH | Rongram | 23.75 | 1.25 | 25.00 | 12.50 | 3.62 | 0.55 | 4.17 | 2.50 | 23.75 | 1.25 | 25.00 | 12.50 |
| 16 | Sanjeng RVP | WGH | Rongram | 23.75 | 1.25 | 25.00 | 12.50 | 3.62 | 0.55 | 4.17 | 2.50 | 23.75 | 1.25 | 25.00 | 12.50 |
| 17 | Thwallaroi RVP | WJH | Thadlaiksein | 83.82 | 4.41 | 88.23 | 17.00 | 4.55 | 2.38 | 6.92 | 4.00 | 83.82 | 4.41 | 88.23 | 17.00 |
| 18 | Amlamar RVP | WJH | Amlarem | 51.25 | 2.70 | 53.94 | 43.00 | 11.54 | 0.61 | 12.15 | 24.00 | 51.25 | 2.70 | 53.94 | 43.00 |
| 19 | Thangsniang RVP | WJH | Laskein | 68.18 | 3.59 | 71.77 | 14.00 | 30.95 | 2.71 | 33.65 | 4.00 | 68.18 | 3.59 | 71.77 | 14.00 |
| 20 | Dkhen RVP | WJH | Amlarem | 53.26 | 2.80 | 56.06 | 97.00 | 19.10 | 1.85 | 20.94 | 26.00 | 53.26 | 2.80 | 56.06 | 97.00 |
| 21 | RVP in West Khasi Hills District | WKH | Mawshynrut, Mairang and Mawthadraishan | 76.00 | 4.00 | 80.00 | 44.50 | 19.60 | 2.23 | 21.83 | 11.50 | 76.00 | 4.00 | 80.00 | 44.50 |
| | Grand Total : 21 nos. | | | 1289.15 | 67.85 | 1357.00 | 1493.00 | 332.41 | 37.85 | 370.26 | 417.00 | 1289.15 | 67.85 | 1357.00 | 1493.00 |

Note: All the above 21 nos. projects have been completed during FY 2022-23.

STATEMENT SHOWING THE PROGRESS OF THE 17 NOS. SMRs UNDER SOIL CONSERVATION SCHEMES UNDER NABARD

RIDE-XXVI (ADDITIONAL)

Year of Commencement: 2020-21.

| Sl. No. | Name of Project | District | C&RD Block | Total Project Cost (`. In Lakhs) | | | Cost Area to be treated (Hectare) | Expenditure incurred during 2022-23 (`. In Lakhs) | | | Area treated during 2022-23 (Hectare) | Cumulative Expenditure incurred upto 2022-23 (`. In Lakhs) | | | Area treated 2022-23 (Hectare) |
|---------|--------------------------------|----------|----------------------|-------------------------------------|----------------|--------|---|---|----------------|-------|---|--|----------------|--------|--------------------------------------|
| | | | | NABARD Loan | State Share | Total | | NABARD Loan | State Share | Total | | NABARD Loan | State Share | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | Bolmoram Dochokgre SMR | EGH | Songsak | 38.00 | 2.00 | 40.00 | 17.00 | 6.77 | 0.96 | 7.73 | 3.00 | 38.00 | 2.00 | 40.00 | 17.00 |
| 2 | Khahnar SMR | EIH | Sailnung | 66.50 | 3.50 | 70.00 | 38.10 | 11.86 | 1.67 | 13.53 | 7.10 | 66.50 | 3.50 | 70.00 | 38.10 |
| 3 | Mawrah (Lauhun-Sahsel) SMR | EKH | Khatarsnong-Laitkroh | 142.50 | 7.50 | 150.00 | 112.50 | 25.23 | 3.58 | 28.80 | 21.50 | 142.50 | 7.50 | 150.00 | 112.50 |
| 4 | Nongpylur-Nongkseh Cluster SMR | EKH | Myliem | 95.00 | 5.00 | 100.00 | 51.00 | 17.10 | 2.40 | 19.50 | 9.00 | 95.00 | 5.00 | 100.00 | 51.00 |
| 5 | Mawngap SMR | EKH | Mawphlang | 9.50 | 0.50 | 10.00 | 7.50 | 1.71 | 0.24 | 1.95 | 1.50 | 9.50 | 0.50 | 10.00 | 7.50 |
| 6 | Myliem SMR | EGH | Myliem | 275.50 | 14.50 | 290.00 | 558.00 | 49.12 | 6.94 | 56.05 | 108.00 | 275.50 | 14.50 | 290.00 | 558.00 |
| 7 | Dumisi SMR | NGH | Resubelpara | 47.50 | 2.50 | 50.00 | 25.00 | 8.46 | 1.20 | 9.66 | 5.00 | 47.50 | 2.50 | 50.00 | 25.00 |
| 8 | Umlew SMR | RB | Bhoirymbong | 41.94 | 2.21 | 44.15 | 20.00 | 7.48 | 1.06 | 8.54 | 4.00 | 41.94 | 2.21 | 44.15 | 20.00 |
| 9 | Sohkhwai SMR | RB | Umling | 53.06 | 2.79 | 55.85 | 24.00 | 9.46 | 1.33 | 10.79 | 4.00 | 53.06 | 2.79 | 55.85 | 24.00 |
| 10 | Rongdong Nala SMR | SGH | Baghmara | 47.50 | 2.50 | 50.00 | 34.00 | 8.46 | 1.20 | 9.66 | 6.00 | 47.50 | 2.50 | 50.00 | 34.00 |
| 11 | Paglapara SMR | SWGH | Zlkzak | 28.50 | 1.50 | 30.00 | 12.00 | 5.08 | 0.72 | 5.80 | 3.00 | 28.50 | 1.50 | 30.00 | 12.00 |
| 12 | Phodkroh SMR | SWKH | Ranikor | 38.00 | 2.00 | 40.00 | 34. | | | | | | | | |

Year of Commencement: 2022-23.

STATEMENT SHOWING THE PROGRESS OF THE 39 NOS. PROJECTS UNDER RIDF-XXVII

| Sl. No. | Name of Project | Name of District | Name of C&RD Block | Total Project Cost (₹ in Lakh) | | | Area to be treated (Hectare) | Expenditure Incurred during 2022-23 (₹ in Lakh) | | | Area treated during 2022-23 (Hectare) | Cumulative Expenditure upto 2022-23 (₹ in Lakh) | | | Area treated upto 2022-23 (Hectare) |
|---------|------------------------|------------------------|--------------------|--------------------------------|-------------|---------|------------------------------|---|-------------|--------|---------------------------------------|---|-------------|--------|-------------------------------------|
| | | | | NABARD Loan | State Share | Total | | NABARD Loan | State Share | Total | | NABARD Loan | State Share | Total | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| 1 | Rangkoi RVP | East Garo Hills | Rongieng | 47.50 | 2.50 | 50.00 | 23.50 | 14.25 | 0.75 | 15.00 | 7.00 | 14.25 | 0.75 | 15.00 | 7.00 |
| 2 | Nengmandalgre RVP | East Garo Hills | Samanda | 95.00 | 5.00 | 100.00 | 43.00 | 28.50 | 1.50 | 30.00 | 13.00 | 28.50 | 1.50 | 30.00 | 13.00 |
| 3 | Umthning RVP | East Jaintia Hills | Khliehriat | 19.00 | 1.00 | 20.00 | 9.00 | 5.70 | 0.30 | 6.00 | 3.00 | 5.70 | 0.30 | 6.00 | 3.00 |
| 4 | Wahsakbu RVP | East Jaintia Hills | Khliehriat | 76.00 | 4.00 | 80.00 | 45.00 | 22.80 | 1.20 | 24.00 | 14.00 | 22.80 | 1.20 | 24.00 | 14.00 |
| 5 | Hali Kseh RVP | East Jaintia Hills | Saipung | 9.50 | 0.50 | 10.00 | 5.00 | 2.85 | 0.15 | 3.00 | 2.00 | 2.85 | 0.15 | 3.00 | 2.00 |
| 6 | Thlu Kriang RVP | East Jaintia Hills | Saipung | 38.00 | 2.00 | 40.00 | 20.00 | 11.40 | 0.60 | 12.00 | 6.00 | 11.40 | 0.60 | 12.00 | 6.00 |
| 7 | Umlhung RVP | East Khasi Hills | Mawkyneew | 9.50 | 0.50 | 10.00 | 5.80 | 2.85 | 0.15 | 3.00 | 2.00 | 2.85 | 0.15 | 3.00 | 2.00 |
| 8 | Wah Rynkon RVP | East Khasi Hills | Mawkyneew | 47.50 | 2.50 | 50.00 | 22.40 | 14.25 | 0.75 | 15.00 | 7.00 | 14.25 | 0.75 | 15.00 | 7.00 |
| 9 | Umkyntrem RVP | East Khasi Hills | Mawsynram | 47.50 | 2.50 | 50.00 | 23.00 | 14.25 | 0.75 | 15.00 | 7.00 | 14.25 | 0.75 | 15.00 | 7.00 |
| 10 | Wah Dholai RVP | East Khasi Hills | Mawsynram | 47.50 | 2.50 | 50.00 | 31.00 | 14.25 | 0.75 | 15.00 | 9.00 | 14.25 | 0.75 | 15.00 | 9.00 |
| 11 | Umphrup RVP | East Khasi Hills | Myliem | 38.00 | 2.00 | 40.00 | 16.80 | 11.40 | 0.60 | 12.00 | 5.00 | 11.40 | 0.60 | 12.00 | 5.00 |
| 12 | Wah Mawpun RVP | East Khasi Hills | Myliem | 95.00 | 5.00 | 100.00 | 46.50 | 28.50 | 1.50 | 30.00 | 14.00 | 28.50 | 1.50 | 30.00 | 14.00 |
| 13 | Wah Nongbet RVP | East Khasi Hills | Myliem | 85.50 | 4.50 | 90.00 | 41.00 | 25.65 | 1.35 | 27.00 | 12.00 | 25.65 | 1.35 | 27.00 | 12.00 |
| 14 | Wah Nongumlong RVP | East Khasi Hills | Myliem | 95.00 | 5.00 | 100.00 | 42.60 | 28.50 | 1.50 | 30.00 | 13.00 | 28.50 | 1.50 | 30.00 | 13.00 |
| 15 | Wah Pdengbri RVP | East Khasi Hills | Myliem | 57.00 | 3.00 | 60.00 | 28.50 | 17.10 | 0.90 | 18.00 | 9.00 | 17.10 | 0.90 | 18.00 | 9.00 |
| 16 | Wah Umiang RVP | East Khasi Hills | Myliem | 47.50 | 2.50 | 50.00 | 21.80 | 14.25 | 0.75 | 15.00 | 7.00 | 14.25 | 0.75 | 15.00 | 7.00 |
| 17 | Chilchora Phase-II RVP | North Garo Hills | Resubelpara | 23.75 | 1.25 | 25.00 | 20.00 | 7.13 | 0.37 | 7.50 | 6.00 | 7.13 | 0.37 | 7.50 | 6.00 |
| 18 | Dumisi Phase-II RVP | North Garo Hills | Resubelpara | 23.75 | 1.25 | 25.00 | 25.00 | 7.13 | 0.37 | 7.50 | 8.00 | 7.13 | 0.37 | 7.50 | 8.00 |
| 19 | Rongkamminchi RVP | North Garo Hills | Resubelpara | 38.00 | 2.00 | 40.00 | 38.00 | 11.40 | 0.60 | 12.00 | 11.00 | 11.40 | 0.60 | 12.00 | 11.00 |
| 20 | Sambrak RVP | North Garo Hills | Kharkutta | 57.00 | 3.00 | 60.00 | 35.00 | 17.09 | 0.91 | 18.00 | 11.00 | 17.09 | 0.91 | 18.00 | 11.00 |
| 21 | Shakolkuna RVP | Ri-Bhoi | Umling | 95.00 | 5.00 | 100.00 | 41.00 | 28.50 | 1.50 | 30.00 | 12.00 | 28.50 | 1.50 | 30.00 | 12.00 |
| 22 | Umtliang-Umle RVP | Ri-Bhoi | Umling | 142.50 | 7.50 | 150.00 | 61.00 | 42.75 | 2.25 | 45.00 | 18.00 | 42.75 | 2.25 | 45.00 | 18.00 |
| 23 | Chiganggrot RVP | South Garo Hills | Chokpot | 138.85 | 7.31 | 146.16 | 58.46 | 41.65 | 2.20 | 43.85 | 18.00 | 41.65 | 2.20 | 43.85 | 18.00 |
| 24 | Dangsila RVP | South Garo Hills | Gasuapara | 146.15 | 7.69 | 153.84 | 61.53 | 43.85 | 2.30 | 46.15 | 18.00 | 43.85 | 2.30 | 46.15 | 18.00 |
| 25 | Bokman RVP | South West Garo Hills | Betasing | 133.00 | 7.00 | 140.00 | 56.00 | 39.90 | 2.10 | 42.00 | 17.00 | 39.90 | 2.10 | 42.00 | 17.00 |
| 26 | Naogati RVP | South West Garo Hills | Betasing | 57.00 | 3.00 | 60.00 | 24.00 | 17.10 | 0.90 | 18.00 | 7.00 | 17.10 | 0.90 | 18.00 | 7.00 |
| 27 | Kakubari RVP | South West Garo Hills | Zikzak | 47.50 | 2.50 | 50.00 | 20.00 | 14.25 | 0.75 | 15.00 | 6.00 | 14.25 | 0.75 | 15.00 | 6.00 |
| 28 | Photkylla RVP | South West Khasi Hills | Ranikor | 47.50 | 2.50 | 50.00 | 20.00 | 14.25 | 0.75 | 15.00 | 6.00 | 14.25 | 0.75 | 15.00 | 6.00 |
| 29 | Upper Umjiarain RVP | South West Khasi Hills | Mawkyrwat | 95.00 | 5.00 | 100.00 | 62.43 | 28.50 | 1.50 | 30.00 | 19.00 | 28.50 | 1.50 | 30.00 | 19.00 |
| 30 | Basulpara RVP | West Garo Hills | Dalu | 28.50 | 1.50 | 30.00 | 12.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | Marapara RVP | West Garo Hills | Dalu | 47.50 | 2.50 | 50.00 | 20.00 | 14.79 | 1.83 | 16.00 | 6.00 | 14.79 | 1.83 | 16.00 | 6.00 |
| 32 | Mibonpara RVP | West Garo Hills | Dalu | 38.00 | 2.00 | 40.00 | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | Badupara RVP | West Garo Hills | Gambegre | 38.00 | 2.00 | 40.00 | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | Dilnigre RVP | West Garo Hills | Gambegre | 38.00 | 2.00 | 40.00 | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | Shekapara RVP | West Garo Hills | Selsella | 47.50 | 2.50 | 50.00 | 20.00 | 16.46 | 1.92 | 18.38 | 6.00 | 16.46 | 1.92 | 18.38 | 6.00 |
| 36 | Umlabar RVP | West Laintia Hills | Thadla skein | 95.00 | 5.00 | 100.00 | 42.00 | 28.50 | 1.50 | 30.00 | 13.00 | 28.50 | 1.50 | 30.00 | 13.00 |
| 37 | Wah Lumsohpi RVP | West Khasi Hills | Mairang | 47.50 | 2.50 | 50.00 | 33.70 | 14.25 | 0.75 | 15.00 | 10.00 | 14.25 | 0.75 | 15.00 | 10.00 |
| 38 | Diengiri RVP | West Khasi Hills | Nongstoin | 11.48 | 0.60 | 12.08 | 4.20 | 3.44 | 0.19 | 3.63 | 1.00 | 3.44 | 0.19 | 3.63 | 1.00 |
| 39 | Nongspung-Kyrshai RVP | West Khasi Hills | Nongstoin | 83.52 | 4.40 | 87.92 | 67.00 | 25.06 | 1.31 | 26.37 | 20.00 | 25.06 | 1.31 | 26.37 | 20.00 |
| | Grand Total: (39 nos.) | | | 2375.00 | 125.00 | 2500.00 | 1194.22 | 712.50 | 37.50 | 750.00 | 343.00 | 712.50 | 37.50 | 750.00 | 343.00 |

Remarks: All the above 39 nos. projects are ongoing projects.

The Conservation Training Institute (CTI) is one of the oldest Institutes in the North Eastern Region of India. It has immensely and consistently contributed to soil and water conservation in the region since its establishment in 15th October, 1973, by meeting the training requirements of the Department and allied organizations of the state as well as the region as a whole both at the Soil and Water Conservation Demonstrator/ Forester Level and Range Officer Level.

The Conservation Training Institute mainly conducts two long term training programmes, namely:

- **Field Assistant Training Programme:** - The Field Assistant Training Programme is designed for Field Executives in the Rank of Soil & Water Conservation Demonstrator Junior-I and equivalent. During the year 2022-2023, the 49th Batch of the 11 Months F.A. Training Course which commenced on 4th May, 2022, consist of 34 nos. of Trainees.
- **Middle Level Technician Training Programme:** - During the year 2022-2023, the 33rd and 34th Batch of the 5½ Months MLTPP Training Course which commenced on 1st April, 2022 and 1st November, 2022 respectively has a total of 25 trainees.

3.6. Meghalaya Commercial Crops Development Board (MCCDB)

The Meghalaya Commercial Crops Development Board (MCCDB) came into being vide an Act called the Meghalaya Commercial Crops Development Board Act, 1996 effected from 1st June, 1997. However, the MCCDB actually formally inaugurated its office at Dhankheti, Shillong on the 3rd August, 2001 and its nucleus Branch at Tura was inaugurated on the 21st May, 2002. The activities of the Board include the promotion of commercial crops cultivation, processing and marketing in the State.

1. E-GOVERNANCE

Initiatives taken under e-governance by the Department:

1. Departmental website – www.megsoil.gov.in
 - Main Content
 - Why Soil and Water Conservation
 - Basic Information
 - Major Programmes
 - Guidelines for Central Schemes
 - Training Institute
 - Achievements
 - Annual Report
 - Citizens' Charter
 - Right to Information - Suo Moto Disclosure under RTI Act.
 - IWMP (Integrated Watershed Management Programme)- Detailed Project Report
 - MCCDB (Meghalaya Commercial Crops Development Board)
 - Others
 - Notice Board
 - Picture Gallery
2. Management Information System (MIS) IWMP.
3. Management Information System (MIS) NBM.
4. Public Financial Management System (PFMS).
5. BHUVAN - Drishti-Srishti.

4.2. Education and Training 2022– 2023 (April 2022 up to March 2023)

A. Various Training of Gazetted Officers and Staff for the year ending 2022-23:

1. The Department deputed (i) Smti. I. Rynjah – Director Soil & Water Conservation, Meghalaya, Shillong, (ii) Shri. ABS Swer – Joint Director Soil & Water Conservation (Headquarter), Meghalaya, Shillong, (iii) Shri. L Shabong – Divisional Soil & Water Conservation Officer, Project Formulation Cell, Shillong and (iv) Shri. NJS Kharmalki Planning Officer, to attend the training for ICC North East Water Conclave on 26th August 2022, Shillong, Meghalaya.
2. The Department deputed (i) Shri. A. Bhattacharjee - Divisional Soil & Water Conservation Officer (Soil Survey Division) and (ii) Shri. E. Nongrum – Assistant Soil & Water Conservation Officer (Soil Survey Division), to attend the training on improvement of soil and productivity of land on the 21st & 22nd November 2022 at Asian Confluence, Laitumkhrah, Shillong.
3. The Department deputed (i)Shri. R. Lanong – Assistant Soil & Water Conservation Officer (Project Formulation Cell Division) and (ii)Shri. M. Syiem - Assistant Soil & Water Conservation Officer (Soil Survey Division), to attend the training on Bio-Diversity & Conservation cum Workshop on traditional medicine on the 14th & 15th December 2022 at Anthony's College, Auditorium Shillong.

CHAPTER V

5.1 Success Stories

5.1.1. SUCCESS STORY ON DKHEN RVP UNDER NABARD RIDF - XXVI

The Office of the Divisional Soil & Water Conservation Officer, Jowai Territorial Division Jowai, under the Scheme RIDF-NABARD 2022-2023 had implemented nine numbers of Small Multipurpose Reservoir in the whole District, two number of projects under RIDF XXV, seven number under RIDF XXVI, namely Dkhen RVP, Tken SMR, and Amlamar RVP under Amlarem Block, Thwailaroit RVP, Wahshangpet RVP, Moolatyab RVP and Pohsahkhab SMR under Thadlaskein block, Thangsniang RVP and Wah Tyngkla SMR

RIDF Scheme under NABARD had played a very crucial role in uplifting the rural economy be it agriculture, tourism, etc. not to mention the benefits it provides in Soil and water conservation and Natural Resource Management. One such scheme that the Division had implemented is the Dkhen RVP at Shkenpyrsit Village which falls under Amlarem block, having a project cost of¹ 56,05,825.00 (Fifty-six lakhs five thousand eight hundred and twenty-five only). Shkenpyrsit village is situated at a distance of about 17 Kms. from Jowai the District Head quarter, and its located midway between Jowai and Dawki village, where Umngot river famous for its crystal-clear water, fish and various tourist spot is located. The Soil and Water Conservation Department through NABARD-RIDF project had constructed the Dkhen Small Multipurpose Reservoir in the village with an aim:

1. To provide irrigation.
2. Rain water Harvesting and reservoir for ground water recharge, etc.
3. Eco-Tourism and
4. Fishery Development.

After the construction of the SMR a remarkable transformation has been noticed among the beneficiaries as they are found to be very enthusiastic and cooperative with the Department be it awareness programme, meetings or any other official related matter unlike before, the transformation happens because the beneficiaries had realized the various benefits the scheme had brought to their village.

The various benefits of the project and its effect on the rural community that has help in bringing about behavioural changes are:

| Sl. No | Benefits Derived | Remarks |
|--------|--|---|
| 1 | 2 | 3 |
| 1 | Command Area(23Ha) | 23 Ha of the agricultural land is brought under assured irrigation ensuring increase in production and productivity besides increasing the Gross command area. |
| 2 | Fishery Development(1.4Ha) | The SMR after construction has a water spread of about 1.4 Ha. Which means that 1.4 Ha of water bodies is available for fish production. |
| 3 | Tourism Development | Taking into consideration that the village is located at the epicentre of most of the popular tourist spot of the district, its closeness towards Jowai the District Head Quarter (17 Kms. Approx.) and its proximity to Amlarem village (8.8 kms approx.) where the office of the Civil Sub Divisional officer is located the its vicinity to the main road the project had drawn a good number of tourists even at its nascent stage. Realising the potential other tourism development activities such as Children Cum open Gym Park and Shkenpyrsit Serene Eco Resort had been proposed for construction in the project site. |
| 4 | Rainwater Harvesting and reservoir for ground water recharge, etc. | The SMR helps in recharging of ground water besides controlling floods and soil erosion. |

RCC Headwork



Footpath



Command Area



5.1.2 RIDF-XXVI Chitmong Chaiwat & RIDF-XXVI (Additional) Rongdong Nala

RIDF-XXVI Chitmong Chaiwat and RIDF-XXVI (Additional) Rongdong Nala funded by NABARD, Govt. of India was initiated in the year 2021 under Siju C&RD Block of South Garo Hills, Baghmara. The total project cost of Chitmong Chaiwat is Rs. 127 Lakhs and that of Rongdong Nala is Rs. 50 Lakhs, covering 70 Hectares of treatable area. These projects benefits 1 no. of village i.e. Badri Rongdong having 65 nos. of household/beneficiaries.

These projects has been handed over to the community in the year 2023 and is now being managed by Chitmong Chaiwat Managing Committee of Badri Rongdong Village.

Problem Statement & Analysis

| Sl. No. | Problem | Solution |
|---------|-------------------------|---|
| 1 | Jhummed and Dry Area | Creation of Water Body (RCC Weir) |
| 2 | Water for Domestic Use | Construction of RCC Weir |
| 3 | Maximum Surface Run off | Water retention measures (Trenches, terracing) |
| 4 | Soil Erosion | Construction of Embankment with Boulder Sausage, Stone pitching, Retaining wall |

| | | |
|---|----------------------------|--|
| 5 | Income generation | Livelihood Activities (Pisciculture, Tourism Sector, Park) |
| 6 | Infrastructure Development | Approach road, Boundary Fencing, Footpaths, etc. |

Implementation: -

- Constructed 1 (one) RCC Weir with an Embankment with Boulder Sausage.
- Under Infrastructure Development: -
 - Boundary fencing
 - Steel Gate
 - Approach road (Jeepable) with Interlocking paver block
 - Footpath
 - Toilet
 - Loghouse
 - Beautification

Output Outcome

| Direct Benefits/ Expected Benefits | Indirect Benefits |
|---|--|
| ▪ Potential Area created = 70 Ha. | ▪ Employment Generation |
| ▪ Employment generation (non-recurring) in Lakh Mandays = 21240 | ▪ Increase in impounding area and ground water storage |
| ▪ No. of Benefitted Village = 1 (one) | ▪ Soil and Moisture conservation |
| ▪ Population Benefitted = 65 Nos. of Households | ▪ Livelihood activity |
| ▪ Increase in Forest Cover | ▪ Increase in Tourism activities |

Impact

- The beneficiaries are very elated and contented as their agricultural production has been increased due to assured irrigation.
- Source of income has also been increased due to employment generation and establishment of commercial hubs.
- The involvement of the beneficiaries/ Chitmong Chaiwat Managing Committee as a participatory approach has instilled in them the sense of ownership and responsibility towards the assets created.
- Since the project has been implemented on the roadside, there is an imminent attraction of tourists from the neighbouring districts.





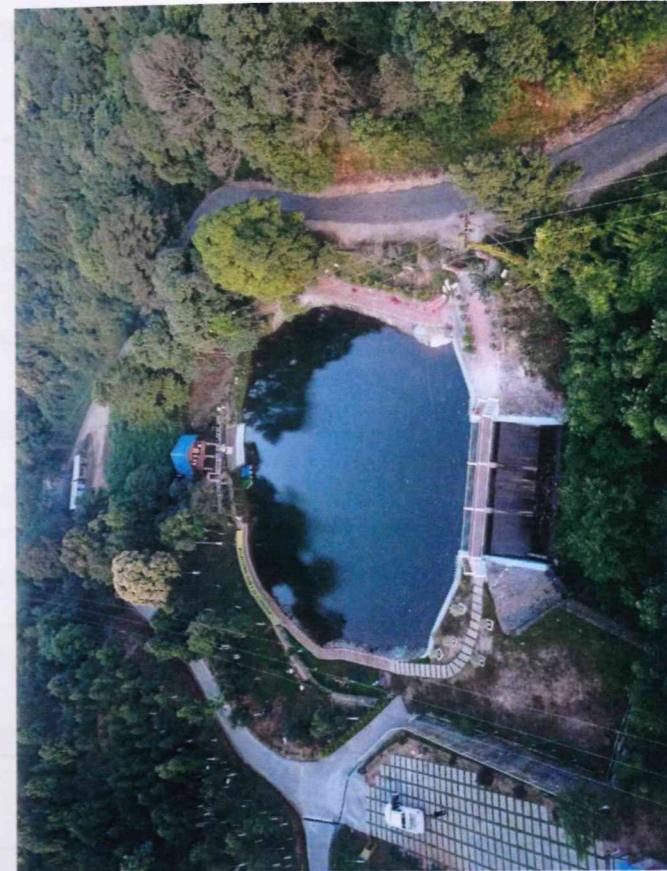
BEFORE



AFTER



AFTER



BEFORE

5.1.3 SUCCESS STORY ON THWAILAROIT SMALL MULTI – PURPOSE RESERVOIR UNDER NABARD RIDF – XXVI

| Brief of the Project |
|--|
| Name of the District -West Jaintia Hills |
| Name of Project- Thwailaroit RVP RIDF – XXVI |
| Name of structure: Small Multi-Purpose Reservoir |
| Location: Thwailaroit |
| Name of Office under which project executed-Divisional Soil & Water Conservation Officer Jowai Territorial Division, Jowai |
| Date of start of the Project- March 2021 |
| Status of the Project- Ongoing |
| Project funding: R.I.D.F –XXVI NABARD |
| Cost of Construction (in lakhs)- Rs8823025/- (<i>Eighty-eight Lakhs twenty-three thousand twenty-five) Only</i> |
| Number of Household benefitted: 14 Nos. |
| Benefitted area: 17 Ha. |

DESCRIPTION: The Thwailaroit Small Multi – Purpose Reservoir is located at Wahajer Village, West Jaintia Hills District and lies between Latitude: N 25.55926°; Longitude: E 92.18499° and falls under the jurisdiction of Thadlaskein C&RD Block at a distance of 22 km away from district headquarter Jowai. There are about 1004 households approximately in Wahajer village. Ummulong is the major centre for all economic activities for all the inhabitants of Wahajer village. Thwailaroit being perennial in nature can provide irrigation water to the agriculture field throughout the year.

The Soil and Water Conservation Department through NABARD-RIDF project had constructed a Small Multipurpose Reservoir in the village with an aim:

- To meet the ever-increasing demand for irrigation water.
- Harvesting of rain water and ground water Recharge.
- Conservation and sustainable management of natural resources and their uses.
- Enhancement of agriculture productivity and production in a sustainable manner.
- To raise the ground water table by recharging ground water.
- To reduce the ground water pollution.
- Economic upliftment of the people through tourism activities.
- Fishery Development.

Pre Project-Status

- Before the construction of the reservoir the farmers depend only on rainfall for irrigation purposes reducing production and productivity of the crop in the process.
- Unavailability of sustained water sources means the farmers could not take up other livelihood activities such as livestock, pasture development, etc. meaning that the farmers would have to depend on external sources for their crop nutrient requirement, increasing their production cost in the process.
- The farmers could not carry out double cropping due to unavailability of water for irrigation and nutrient deficiency of the soil as the farmers could not carried out compost preparation due to unavailability of resources.
- Absence of a water harvesting structure means more run-off and this leads to more erosion and soil degradation.
- Absence of an embankment leads to more surface flow, minimising infiltration and percolation resulting to low ground water recharge.
- The farmers at present are not taking active part in catchment protection, however,

construction of the reservoir will expose the farmers on the importance of it as training and awareness will be provided to them.

- The people in general are ignorant and mostly economically poor and are unaware about the economic benefits, a reservoir can bring to them in terms of tourism, fish production, high crop yield and overall economic upliftment, etc. hoping with the completion of the project the people will become aware of these and replicate the activities in other potential location.

| | | |
|--------------------------------|---|------------------|
| Name of Project | Thwailarot SMR, RIDF – XXVI | |
| Type of Structure | 1. RCC Headwater Dam 2. Command Area Protection Wall | |
| Total Project Cost | Rs. 88,23,025.00 | |
| Cost of Structure | RCC Headwater Dam | Rs. 32,36,350.00 |
| | Command Area Protection Wall | Rs. 8,15,400.00 |
| Catchment Area | 2301 Ha (approx.) | |
| Benefitted Area | 17 Ha (approx.) | |
| Command Area | 18 Ha (approx.) | |
| Number of Benefitted Household | 14 | |

Details of Structures Constructed at Thwailarot, Wahajer

Multipurpose Reservoirs can harvest and store water throughout the year and cater to the multifarious needs of the populace such as irrigation, domestic requirement, fishery development, aesthetics and recreational purposes like tourism, parks, etc. thus providing employment to the youth besides mitigating the water stressed related issues of the locals. Cascading MRs of various sizes and designs can also be constructed along the Thwailarot stream to meet the other water requirements, such as ground water recharge, fish farming etc.

Tremendous impact has been achieved in terms of Natural Resource Management and improving the overall economic condition of the people such as increasing in agricultural productivity, gross irrigated area, and benefitted other farm related activities such as livestock farming, fish farming, etc. due to round the year availability of water stored in the SMR. Besides, Scientific and judicious utilization of this created resource is the way forward to make it a complete, wholesome and successful approach. Several water conservation efforts, employment generation activities are possible if various State Government Department and government agencies can come in consortium. Soil and water conservatio

Department with the Small Multipurpose Reservoir constructed through RIDF-NABARD had paved the way for other line department to work in tandem to achieve a shared aim.

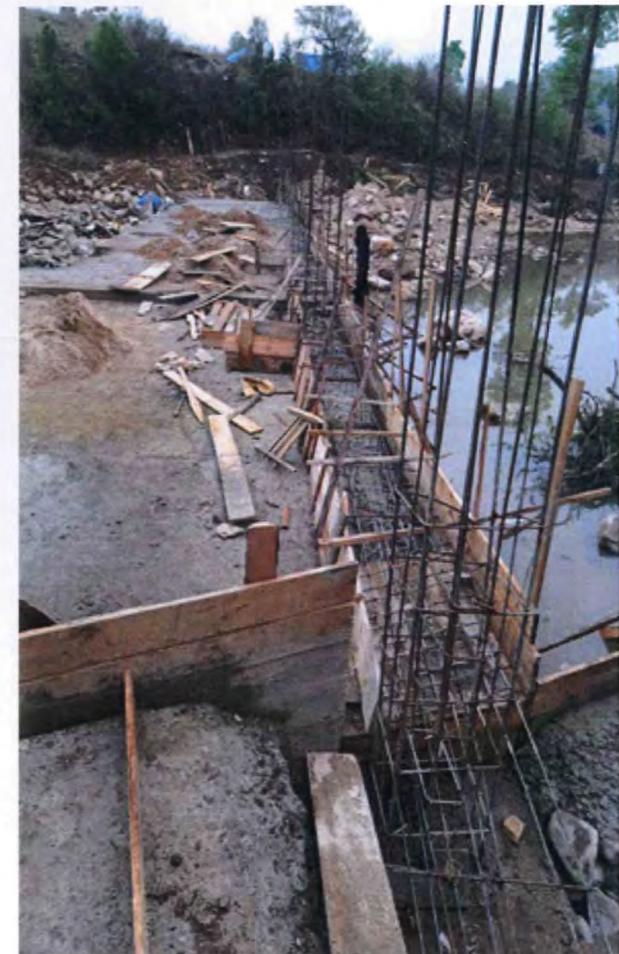
Benefits/Outcomes of project:

The community as a whole is benefitted directly through tourism, fish culture, livestock rearing, creating an aesthetic and serene beauty to the area, etc. In addition to providing lifesaving irrigation to fourteen families having agricultural and downstream of the project area resulting in improving overall socio-economic condition of the community, besides providing indirect benefit such as ground water recharge. Also, the RCC footbridge constructed across Thwailarot has benefitted various villages viz Mupliang, Sohphoh, Nartiang located adjacent to the Project area as it becomes easily accessible to the nearby market i.e., Ummulong.

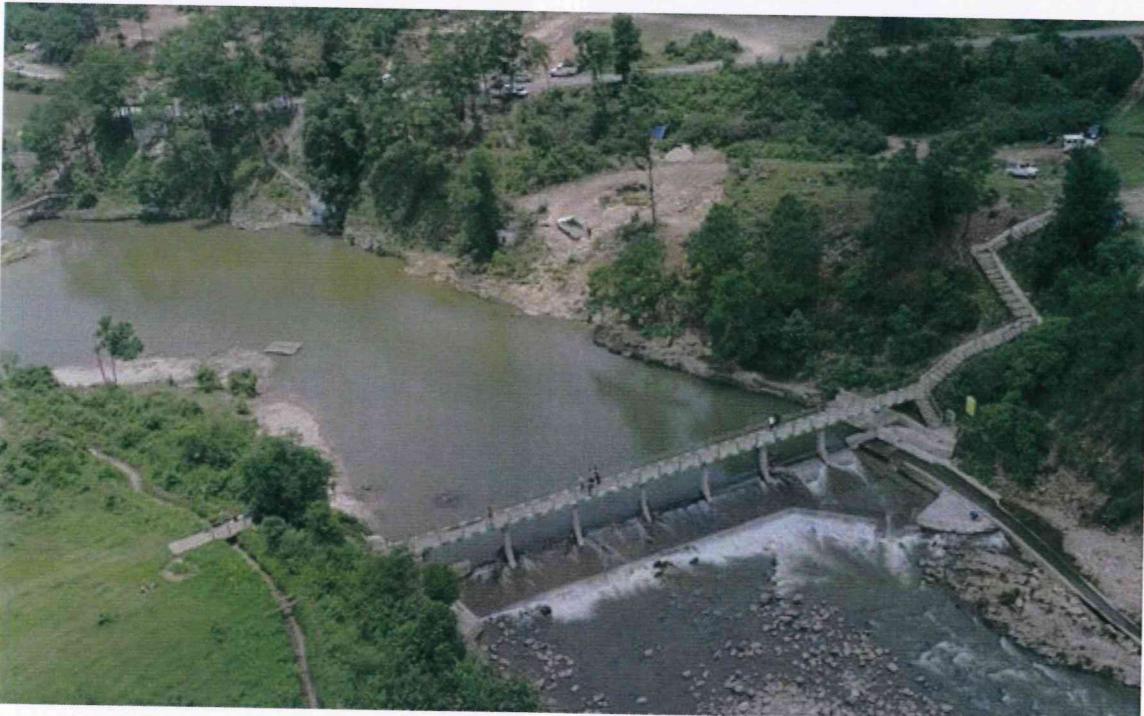
PHOTOGRAPHS OF THWAILAROT SMR



BEFORE CONSTRUCTION



DURING CONSTRUCTION



After Construction: R.C.C Dam cum Footbridge

52



After Construction: Irrigation Canal

53

5.1.4 SUCCESS STORIES UNDER PMKSY- WDC 2.0 (2022-23)

1. Name of the project. : Wah Umrisang Watershed WDC – 2.
2. Name of the activity whether individual/ organisational. : Construction of Cold Storage at Pomkaniew Village.
3. Objective of the project/ activity. :
 - (i) The storage is primarily used for storing potatoes, cabbages and radishes benefiting the entire community.
 - (ii) Cold Storage extends the shelf life of these vegetables allowing farmers to preserve their produce for longer periods.
 - (iii) Improved food security and livelihood opportunity.
 - (iv) One of the key features of this cold storage its unique mechanism that does not require electricity or machinery.
4. Implementing/ facilitating agency. : Office of the Divisional Soil & Water Conservation Shillong (T) Division, Shillong.
5. Nature of the organization (NGO, CSR- of corporate, Govt agency). : Government Agency.
6. Whether project implementation involves partnership with. : Community base with peoples' participation/ cooperation of Wah Umrisang watershed
7. Project area- district/ block, village etc. : East Khasi Hills District, Mylliem C&RD Block, Pomkaniew.
8. Implementation of project. : 1- 5 years.
9. Initiatives taken under the project (Process undertaken under the project). : Awareness Campaign, Capacity Building of the farmers, beneficiaries & people of the community as a whole.
10. Number of people impacted. : Beneficiaries, Farmers & the whole community as a whole.
11. Whether impacted people belong to disadvantagedGroup like tribal or LWE areas or area covered under. : BPL.

12. Anticipated Outcome (previous and now) :

| SI No. | CROPS | PRE – PROJECT YIED (QTLS) | ANTICIPATED – PROJECT YIED (QTLS) |
|--------|-------------|---------------------------|-----------------------------------|
| 1 | Paddy | 875 | 1200 |
| 2 | Potato | 1110 | 1554 |
| 3 | Cauliflower | 2664 | 3374.40 |
| 4 | Radish | 1674 | 2206.40 |
| 5 | Cabbage | 988 | 1630.20 |

13. A brief description below:

The success story of the EPA Cold Storage is a testament to the innovative solutions that can be achieved through collaboration and community involvement. This low-cost cold storage facility was conceptualized by the PIA and Mylliem Lum Farmers Association with input from the Watershed Committee to address the storage needs of farmers within the Watershed.

Situated in Pomkaniew the EPA Cold Storage boasts specific dimensions and specifications that ensure its functionality and effectiveness. The outer wall measures 13 feet on all four sides while the inner wall is slightly smaller at 12 feet. The height of the storage is 8 feet complete with a dyna roof and cement sheet ceiling. The design also incorporates small spaces for wind inlet and outlet.

One of the key features of this cold storage is its unique mechanism that does not require electricity or machinery. Instead, it utilizes a gravity-based system with a pipeline and drip facilities. Water from a storage tank positioned at a higher elevation than the cold storage flows through the pipeline and drips at regular intervals. As the water passes through layers of pebbles and river sand it creates a cooling effect inside the storage.

This innovative approach to cold storage has proven effective in reducing the rate of respiration for vegetables. By slowing down the respiration process, the EPA Cold Storage extends the shelf life of these vegetables, allowing farmers to preserve their produce for longer periods. It also eliminates the use of ACs, which includes health concerns, environmental impacts, and high energy bills. Prolonged exposure to ACs can cause health issues like dry eyes, headaches, respiratory issues, allergies, and asthma. The cold air can dry out your skin and eyes, and the dry air can make it harder to breathe. ACs can also be a source of air contamination, which can lead to respiratory ailments and other problems like colds and fevers. ACs use a lot of electricity, which can contribute to environmental pollution because much of the world's electricity comes from coal-burning plants.

The success of the EPA Cold Storage can be attributed to the active involvement of the village community who are responsible for operating the facility under the supervision of the Watershed Committee. The storage is primarily used for storing potatoes, cabbages and radishes benefiting the entire community.



BEFORE



DURING

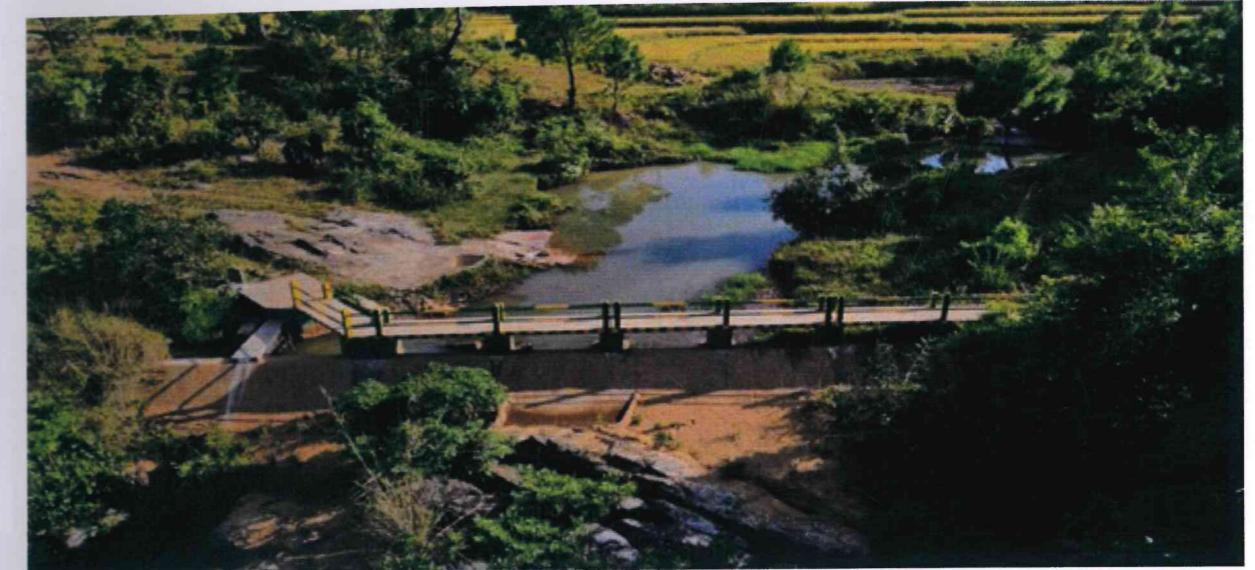


AFTER

Cold Storage at Pomkaniew, No. of Benefitted Household – 10 + Nos of HH

5.2. Photo Gallery

Watershed Development Component of the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY-WDC) [erstwhile Integrated Watershed Management Programme, IWMP]



RCC Dam with Footbridge at Wah Sohlaper, Benefitted Area- 13.6 Ha.



Water Harvesting Structure at Tangmang, Benefitted Area- 2 Ha

Thwailarot RVP RIDF – XXVI



BEFORE



DURING



AFTER



Paddy Cultivation in Command Area

CC Check Dam

District: North Garo Hills District

Project: Lower Bolmedang Watershed & Upper Bolmedang

Geo - Coordinates: 25.899635, 90.806983



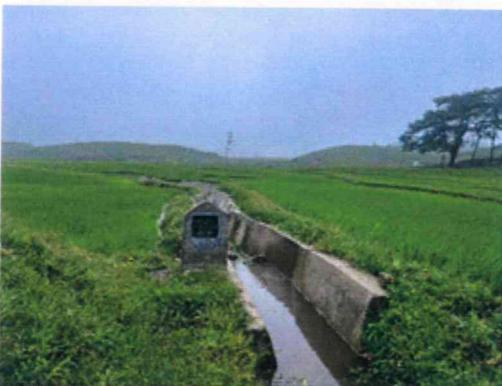
PMKSY WDC 2.0: Kucholsan Self Help Group



RCC Diversion Dam at Musniang Rim



CC Canal at Lumshken



CC Canal at Musniang Rim



Farmpond at Lumputhoi



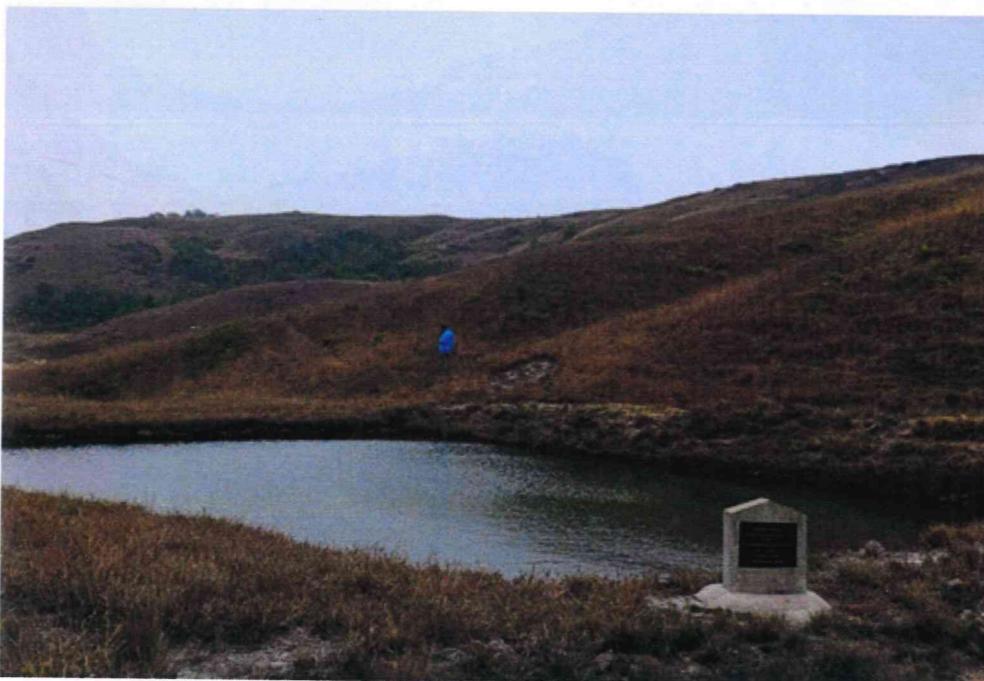
Conservation Pond with CC Core Wall

District: North Garo Hills District

Project: Lower Bolmededang Watershed & Mendima Rabha

Geo - Coordinates: 25.943667, 90.802457

Powered by NoteCam



WDC PMKSY 2.0 - WAH TANGNUB KHAPIABA WATERSHED

District: East Jaintia Hills District

Project: (PMKSY) WDC 2.0



C.C. Check Dam

District: North Garo Hills District

Project: Lower Dame Watershed & Lower Wakso Nengsa

Geo - Coordinates: 25.861786, 90.514436



C. C. Check Dam

District: North Garo Hills District

Project: Lower Dame Watershed & Wakso Todam

Geo - Coordinates: 25.84103,90.518987



Before



After

Spring Tap Chamber

District: Ri Bhoi District

Project: Umket Watershed

Village: Nongtarain



Before



After

Spring Tap Chamber

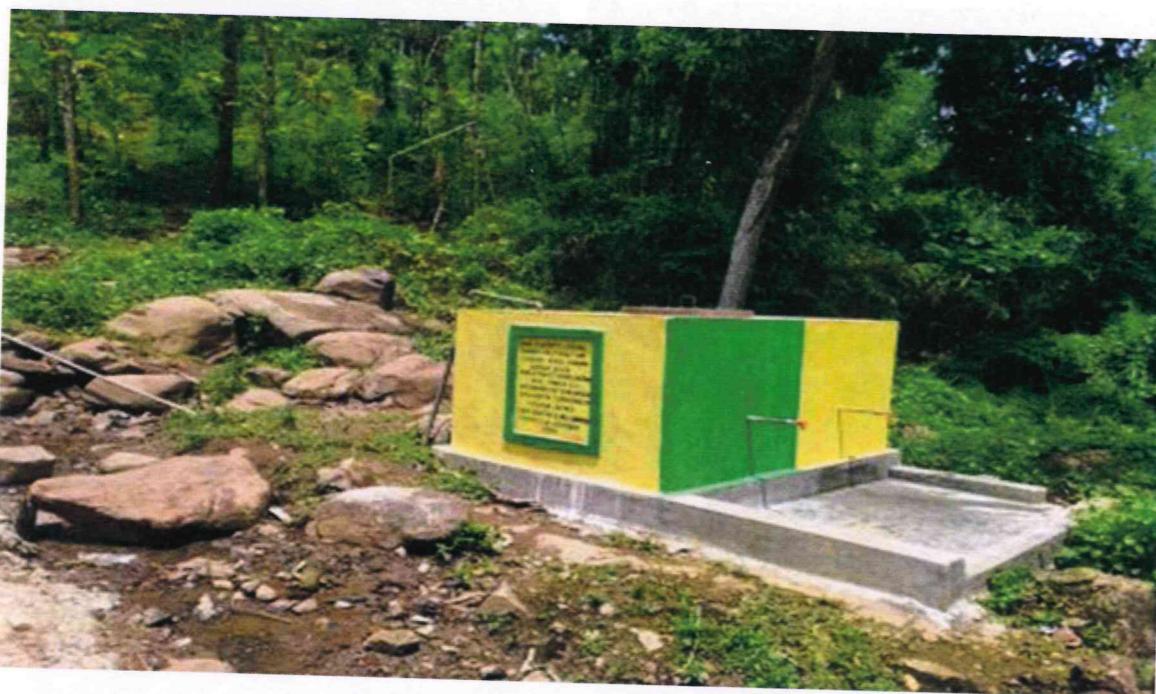
District: Ri Bhoi District

Project: Umthawa-Umbi Watershed

Village: Lamalong



WATER HARVESTING STRUCTURE AT KOKSI RONGKONG UNDER WDC PMKSY-2.0



Spring Chamber at Koksi Songma

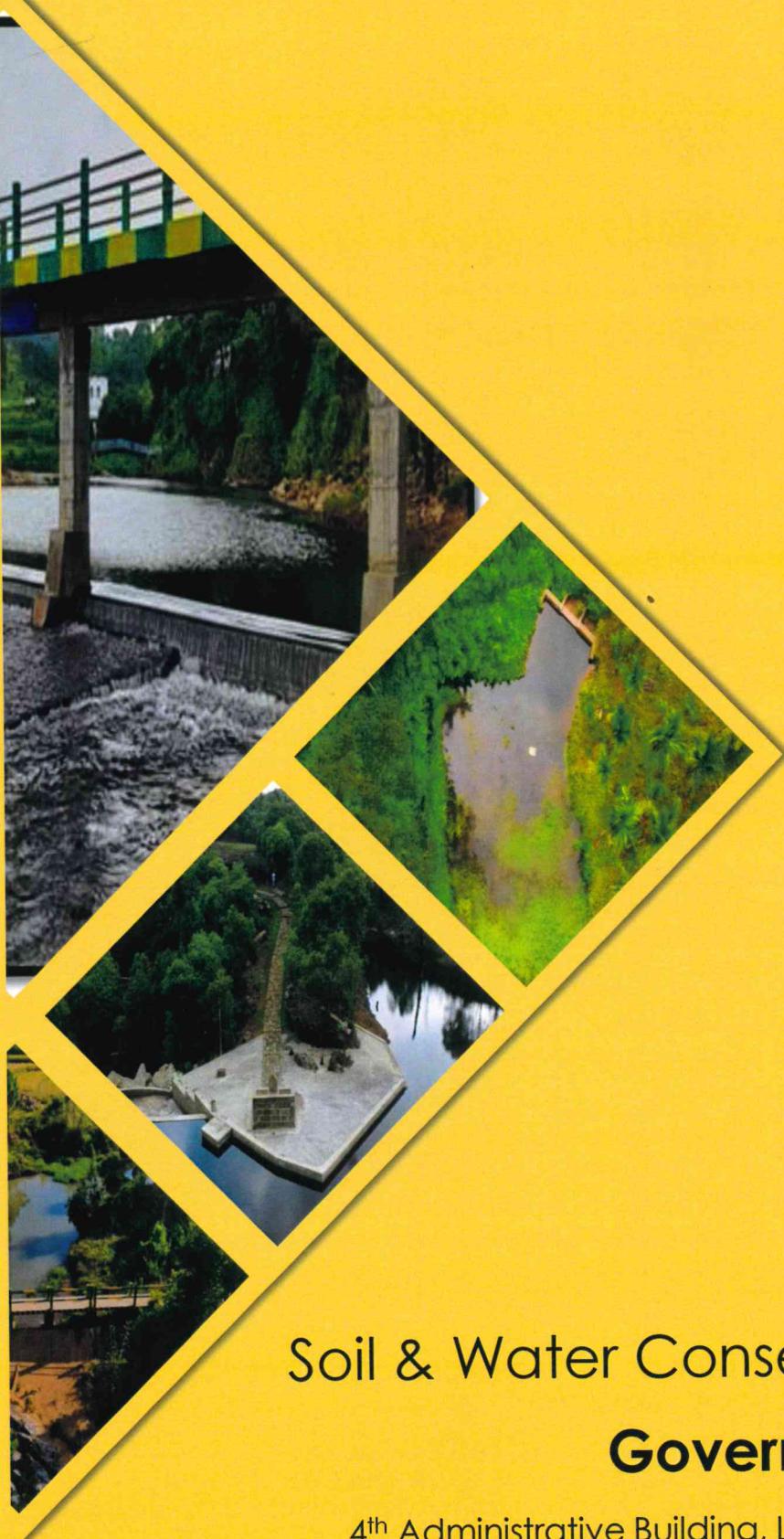


Bench Terrace at Rongbang

Agro- horti good Storage



Village: Nongdhar
District: West Jaintia Hills District
Project: Middle Mynrud Watershed Project
FY: 2021-22
FPS Co-ordinates: 25.639659° N, 92.195190° E



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