



Contour Bunding Technique (CBT): Contour Bunds for Water Harvesting

The "Contour Bunding Technique (CBT)" is a farming strategy used in Africa's dry areas. It uses small walls built along field curves to collect water, reduce runoff,

and prevent soil erosion. This enhances the soil's water retention, making it a

practical solution for water scarcity in dryland farming.

✓ This technology is <u>TAAT1 validated</u>.

Gender assessment

Problem

CBT: Nurturing Crops, Conserving Soil, and Cultivating Resilience



mi-circular bunds reinforced with stones



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Technology from

ProPAS

Commodities

Sorghum/Millet

Sustainable Development Goals





Categories

Best used with



Production, Practices, Water management

Key points to design your project

• Water Scarcity: Dryland farming often faces

water shortages, making crop growth challenging.

• Soil Erosion: In dry areas, soil erosion and gully

formation degrade soil health and productivity.

The Contour Bunding Technique (CBT) promotes inclusivity and mitigates climate change impacts, contributing to several Sustainable Development Goals (SDGs). It's a valuable tool for sustainable agriculture and climate resilience projects.

8.7

Solution

Climate impact

• Water Management: CBT uses walls to capture

• Soil Conservation: CBT slows water movement,

and store rainwater, increasing crop yields.

To integrate CBT into a project:

- 1. Raise Awareness: Educate the community about CBT's benefits.
- 2. Train Stakeholders: Train agents and farmers on cost-effective bund construction techniques.
- 3. Consult Farmers: Discuss with farmers to understand water movement and determine optimal bund
- 4. Provide Resources: Ensure access to necessary resources for building and reinforcing bunds.
- 5. Monitor and Evaluate: Track the effects of CBT on crop yields and soil health for continuous improvement.
- 6. Engage Community: Involve the community to ensure project sustainability and foster ownership.

(Cost: \$\$\$) 9 USD

Drawing contour line per ha

20 %

Sediment loss dicrease

reduces soil erosion, and improves soil fertility.

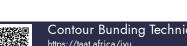
- · Millet and Sorghum Varieties for Better Nutrition and Stress Resistance >
- Precision Fertilizer Micro-Dosing for Millet and Sorghum Yield Enhancement >
- Dual-purpose Millet Varieties for Crop and Livestock Integration >



Where it can be used

This technology can be used in the colored





40 %

Runoff reduction

Open source / open access

