



# REPORT ON TECHNICAL WORKING GROUP: **INFRASTRUCTURE**



## A REPORT BY

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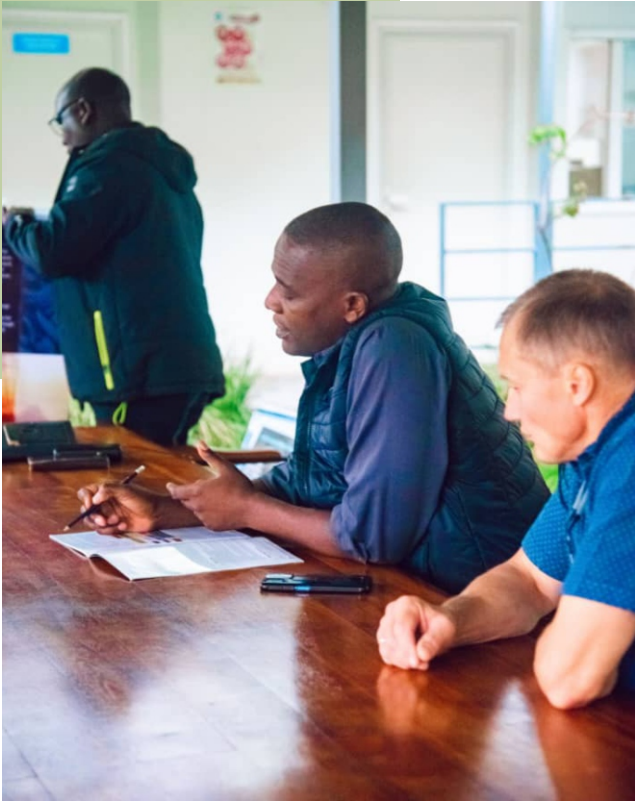
# OVERVIEW

Schweizer Agriculture Ltd, in partnership with the Government of Zambia through the Department of Resettlement under the Office of the Vice President, has established the Technical Working Group on Infrastructure (TWG-I).

This initiative aims to address the gap in supporting infrastructure, thereby boosting productivity, agricultural mechanization, and agribusiness opportunities in the Kanakantapa Resettlement Scheme.

## BACKGROUND

The Kanakantapa Resettlement Scheme, located in Chongwe District of Lusaka Province, Zambia, faces significant challenges in accessing essential infrastructure, hindering agricultural development and economic growth.



# MEMBERSHIP CRITERIA

1. Hard work and dedication to the cause.
2. Basic knowledge of infrastructure development and management.
3. Membership in local cooperatives or farming associations within the Kanakantapa Resettlement Scheme.

## OBJECTIVES

- Improve access to infrastructure for farmers in the Kanakantapa Resettlement Scheme, including roads, water, electricity, and storage facilities.
- Enhance agricultural productivity and value addition through better infrastructure.
- Promote sustainable agricultural practices and contribute to the achievement of the Sustainable Development Goals (SDGs).



## LEADERSHIP

1. **Chairperson:** Ms. Colida Mwanda, Ministry of Community Development and Social Services.
2. **Co-Chairperson:** Mr. Lwiindi, Scheme Manager, Kanakantapa Resettlement Scheme.

# ROLES AND RESPONSIBILITIES



1. Conduct needs assessments and identify priority infrastructure projects.
2. Develop and implement infrastructure development plans.
3. Engage with government agencies and stakeholders to allocate land to farmers.
4. Promote public-private partnerships for infrastructure development.
5. Monitor and evaluate the impact of infrastructure projects.





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# SOLAR-DRIVEN CENTER PIVOT IRRIGATION UNIT (50-60Ha)

FOR MAIZE AND WHEAT IRRIGATION



## SOLAR INSTALLATION SOLUTION

- 50Ha Center Pivot Irrigation System
- 105kW Solar PV Park
- 75kW Solar Pump Inverter
- 12kW Driver Inverter & 15kW Li-ion Battery
- 483kW/h/day generation

**Project:** 40 Units/2,000Ha for Seed Multiplication

**Carbon Credits:** 7,040/annum

**Direct Impact:** 800 Farmers

**Indirect Impact:** 4,000 Seasonal Jobs

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## KEY AREAS OF FOCUS

- **Road Infrastructure Development:** Improve road access to markets and agricultural facilities.
- **Water Infrastructure Development:** Develop irrigation systems and water storage facilities.
- **Electricity Infrastructure Development:** Provide electricity for agricultural value addition and domestic use.
- **Storage Infrastructure Development:** Develop storage facilities for crops and agricultural products.
- **Irrigation Tools and Equipment Provision:** Provide irrigation tools and equipment to support agricultural production.



## SOLAR IRRIGATION, CROPPING, & INSTALLATION UNIT



### SOLAR INSTALLATION SOLUTION

- 11.5kW Water Pump Inverter.
- 15Kw Solar Panels (550W/German brand).
- Ground-fixed, Solar Mount.
- Pivot Operation Time: 9-12h/day.
- Land Required - 0.01 Ha.

**Project:** 240 Units/1200Ha of Legumes Seed Multiplication, Landscaping, and Forestry.

**Carbon Credits:** 6,000/annum

**Direct Impact:** 4,800 Farmers

**Indirect Impact:** 24,000 Indirect Jobs

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## CHALLENGES

1. Limited funding for infrastructure development.
2. Inadequate technical capacity for infrastructure management.
3. Insufficient stakeholder engagement and coordination.
4. Limited access to markets and agricultural facilities.





## NEXT STEPS

1. Conduct a baseline survey to assess existing infrastructure and identify gaps.
2. Develop a comprehensive infrastructure development plan.
3. Establish partnerships with government agencies, private sector companies, and NGOs.
4. Implement priority infrastructure projects.
5. Monitor and evaluate progress and impact

## SOLAR POWERED DRIP IRRIGATION UNIT



### SOLAR INSTALLATION SOLUTION

- 7.5kW solar pump inverter (water pumping)
- 12kW solar panels (550W/German brand)
- Ground-fixed, solar mount.
- Drip irrigation operation time: 24h/day,
- Land Required - 0.1 Ha

**Project:** 600 Units/19,710Kwh p/annum Solar Irrigation

**Carbon Credits:** 11,628/annum

**Direct Impact:** 12,000 Farmers

**Indirect Impact:** 60,000 Indirect Opportunities

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## CONCLUSION

The Technical Working Group on Infrastructure (TWG-I) is a critical initiative aimed at improving access to infrastructure for farmers in the Kanakantapa Resettlement Scheme. By working together with government agencies, private sector companies, and NGOs, we can enhance agricultural productivity, promote sustainable agricultural practices, and contribute to the achievement of the SDGs. The TWG-I is committed to addressing the challenges facing the scheme and ensuring that the next steps are implemented effectively to achieve the desired outcomes.





## AGRICULTURE, AGRI BUSINESS, HORTICULTURE & FORESTRY

### **SECTORS**



**Inputs**



**Agricultural Mechanization**



**Financial Inclusion**



**Access To Markets**



**Capacity Building Through Technical Assistance and Support.**