DONOR PACKAGE SUITE

Maasai Mara Community Borehole Development Project

Isintin Olkinyei Village, Siana Ward, Narok West Sub-County, Narok County, Kenya

Prepared By

InsytH2O Community Based Organization

Contents

SECTION 1 — DONOR BRIEF

Climate-Resilient Community Water Infrastructure Initiative

1. Executive Overview

Project Snapshot

Item	Details
Project Name	Maasai Mara Community Borehole Development Project
Location	Isintin Olkinyei Village, Siana Ward, Narok West Sub-County, Narok County, Kenya
Implementing Organization	InsytH2O Community Based Organization
Target Beneficiaries	Approximately 800–1,500 people
Estimated Daily Water Output	Approximately 80,000–150,000 liters per day
Infrastructure Type	Solar-Powered Community Borehole System
Estimated Implementation Period	10–12 Weeks
Total Funding Requirement	KES 14,194,763 (Approx. USD 109,265)
Project Status	Advanced Pre-Implementation Stage (Approximately 85–90% Readiness)

Project Summary

The Maasai Mara Community Borehole Development Project is a climate-resilient water infrastructure initiative designed to provide long-term, sustainable access to safe and reliable water for underserved rural communities within Narok County, Kenya.

The project proposes the development of a deep solar-powered borehole system integrated with elevated storage infrastructure, gravity-fed community distribution points, livestock watering facilities, and operational monitoring systems.

Communities within the project area currently depend on unreliable seasonal streams, shallow wells, and shared wildlife water sources, exposing households to water insecurity, waterborne diseases, prolonged

walking distances, and increased human-wildlife conflict during drought periods.

The proposed intervention seeks to establish a sustainable long-term water supply system capable of strengthening public health, climate resilience, education outcomes, livelihood sustainability, and community welfare.

The project is implementation-ready upon confirmation of funding and completion of final regulatory approvals.

2. Problem Statement & Community Need

Water Insecurity in the Maasai Mara Region

Communities within the Maasai Mara ecosystem in Narok County continue to experience chronic lack of reliable, safe water access driven by prolonged drought conditions, limited water infrastructure, and dependence on unreliable seasonal water sources.

Most households currently rely on:

- Seasonal streams
- Open water pans
- Shallow hand-dug wells
- Shared livestock and wildlife water sources

These water sources are frequently:

- Unsafe and contaminated
- Unreliable during drought periods
- Located several kilometers from households
- Shared between communities, livestock, and wildlife

Key Community Challenges

Public Health Risks

Unsafe water access contributes to:

- Waterborne diseases
- Poor sanitation and hygiene conditions
- Increased healthcare burdens
- Reduced household wellbeing

Gender & Education Impact

Women and children spend significant time each day collecting water, resulting in:

- Reduced school attendance
- Lower household productivity
- Increased physical burden
- Reduced economic participation opportunities

Livelihood & Economic Impact

Water scarcity negatively affects:

- Livestock productivity
- Household income stability
- Pastoralist livelihoods
- Climate resilience capacity

Human-Wildlife Conflict

Competition for limited water resources increases interaction between communities and wildlife during dry seasons, creating safety risks and environmental pressure.

3. Proposed Technical Solution

Integrated Solar-Powered Water Infrastructure System

The project proposes implementation of an integrated community water supply system comprising:

- Deep borehole drilling and development
- Solar photovoltaic pumping system
- Elevated water storage infrastructure
- Community water distribution points
- Livestock watering facilities
- Water treatment and safety systems
- Monitoring and operational control systems
- Protective fencing and security infrastructure

Expected Project Impact

The project is expected to:

- Provide sustainable water access to approximately 800–1,500 people
- Deliver an estimated 80,000–150,000 liters of water daily
- Reduce household water collection time significantly
- Improve public health and sanitation conditions
- Support livestock water access and pastoral livelihoods
- Strengthen climate resilience and drought adaptation capacity
- Reduce dependence on unsafe seasonal water sources

Why Solar Infrastructure?

The proposed solar-powered system offers:

- Reduced operational and maintenance costs
- Elimination of fuel dependency and long-term operational cost volatility
- Long-term operational sustainability
- Environmentally sustainable infrastructure
- Improved resilience during drought periods
- Lower long-term community operational expenses

4. Sustainability & Implementation Framework

Sustainability Strategy

The project incorporates a long-term sustainability framework through community ownership,

operational accountability, and preventive maintenance planning.

Community Governance

A Community Water Management Committee will oversee:

- System operations
- Maintenance coordination
- Financial oversight
- Accountability and reporting
- Community engagement

Financial Sustainability

Affordable, community-managed water tariffs will support:

- Routine maintenance
- Minor system repairs
- Equipment servicing
- Operational continuity

Technical Sustainability

The project includes:

- Preventive maintenance planning
- Local caretaker training
- Spare parts management
- Operational monitoring systems

Estimated Implementation Timeline

Phase	Estimated Duration
Community Mobilization & Engagement	1–2 Weeks
Hydrogeological Surveys & Site Confirmation	1–2 Weeks
Regulatory Approvals	2–4 Weeks
Borehole Drilling & Construction	2–3 Weeks
Solar & Pump Installation	1–2 Weeks
Training & Commissioning	1 Week

Total Estimated Implementation Period: 10–12 Weeks

5. Funding Request & Partnership Opportunity

Total Funding Requirement

KES 14,194,763

(Approximately USD 109,265)

Partnership Opportunities

Full Project Sponsorship

Support complete implementation of the proposed community borehole infrastructure system.

Co-Funding Components

Development partners may support:

- Borehole drilling activities
- Solar energy infrastructure
- Water storage systems
- Community distribution networks
- Monitoring systems
- Community training and governance

In-Kind Contributions

Accepted support may include:

- Solar equipment and panels
- Pumps and electrical controls
- Monitoring technology
- Water treatment systems
- Technical expertise and advisory support

Rationale for Partnership Support

This initiative offers:

- Measurable and high-impact community outcomes
- Strong ESG and SDG alignment
- Climate-resilient infrastructure investment
- Scalable and replicable implementation model
- Community-centered governance framework
- Long-term sustainability potential

Sustainable Development Goal (SDG) Alignment

The project directly advances the following Sustainable Development Goals:

- SDG 6 — Clean Water & Sanitation
- SDG 3 — Good Health & Wellbeing
- SDG 5 — Gender Equality
- SDG 13 — Climate Action
- SDG 15 — Life on Land

Partnership Invitation

InsytH2O Community Based Organization welcomes collaboration with development partners, foundations, institutional donors, CSR programs, NGOs, and climate resilience stakeholders interested in supporting sustainable community water infrastructure initiatives in underserved regions of Kenya.

The organization remains committed to transparency, accountability, sustainability, and long-term community impact throughout project implementation and operational phases.

SECTION 2 — CONCEPT NOTE

Maasai Mara Community Borehole Development Project

1. Background

Communities within the Maasai Mara ecosystem in Narok County continue to experience chronic water insecurity driven by prolonged drought conditions, limited water infrastructure, and dependence on unreliable seasonal water sources.

Households frequently travel long distances to access water from rivers, shallow wells, and open water pans shared with livestock and wildlife. These conditions contribute to poor health outcomes, waterborne diseases, reduced school attendance, economic hardship, and increased human-wildlife conflict.

The proposed project seeks to establish a solar-powered community borehole system to provide sustainable and reliable water access to underserved households and livestock populations in Isintin Olkinyei Village, Siana Ward, Narok West Sub-County.

2. Project Goal

To establish sustainable access to safe and reliable water for households and livestock through development of a climate-resilient solar-powered borehole system.

3. Specific Objectives

- Drill and equip one deep community borehole.
- Install a solar-powered pumping system.
- Construct water storage and distribution infrastructure.
- Establish and train a Community Water Management Committee.
- Reduce household water collection burdens and improve safe water access.

4. Key Outputs

- Fully operational borehole system
- Solar pumping infrastructure installed
- Elevated water storage infrastructure established
- Community standpipes operational
- Livestock watering points constructed
- Community governance structures established

5. Expected Outcomes

The project is expected to:

- Serve approximately 800–1,500 beneficiaries
- Deliver 80,000–150,000 liters of water daily
- Improve public health outcomes
- Reduce water collection burdens on women and children
- Improve drought resilience capacity
- Support livestock productivity and livelihoods

6. Estimated Implementation Timeline

Activity	Timeline
Surveys & Community Mobilization	Weeks 1–2

Permitting & Regulatory Approvals	Weeks 2–4
Borehole Drilling & Construction	Weeks 5–7
Solar & Infrastructure Installation	Weeks 8–9
Training & Commissioning	Weeks 10–12

7. Budget Summary

Component	Estimated Cost (KES)
Site Identification & Assessment	210,000
Borehole Setup	3,285,330
Water Storage Infrastructure	2,365,000
Water Distribution System	7,044,000
Contingency	1,290,433
Total Project Cost	14,194,763

8. Funding Request

The project seeks full or partial funding support amounting to:

KES 14,194,763 (Approximately USD 109,265)

Support may be provided through:

- Grant funding
- CSR partnerships
- Equipment contributions
- Technical collaboration
- Co-financing arrangements

9. Organization

The project is coordinated by InsytH2O Community Based Organization, a registered Community Based Organization focused on sustainable water infrastructure, climate resilience, and community-centered development initiatives in Kenya.

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SECTION 4 — BUDGET SUMMARY SHEET

Financial Overview

The following summary presents the estimated capital requirements for implementation of the Maasai Mara Community Borehole Development Project. All costs are preliminary estimates subject to final technical assessments, procurement processes, and regulatory requirements.

Budget Category	Amount (KES)	Amount (USD)
Site Identification & Assessment	210,000	1,617
Borehole Setup	3,285,330	25,289
Water Storage Infrastructure	2,365,000	18,206
Water Distribution System	7,044,000	54,220
Subtotal	12,904,330	99,332
Contingency (10%)	1,290,433	9,933
Total Project Cost	14,194,763	109,265

Key Financial Indicators

Indicator	Value
Estimated Beneficiaries	800–1,500 People
Daily Water Output	80,000–150,000 Liters
Estimated Cost Per Beneficiary	Approx. KES 7,200
Estimated Implementation Period	10–12 Weeks
Primary Energy Source	Solar PV

Funding Opportunities

The project welcomes:

- Full funding partnerships
- Component sponsorships
- Equipment and technology donations
- CSR partnerships
- Technical support collaborations

SECTION 5 — IMPLEMENTATION SCHEDULE & PROJECT DELIVERY FRAMEWORK

12-Week Implementation Schedule

Activity	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
Community Engagement & Mobilization	■	■										
Land Confirmation & Agreements	■	■										
Hydrogeological Surveys		■	■									
Geophysical Assessment		■	■									
WRA & NEMA Approvals		■	■	■	■							
Procurement & Contractor Mobilization			■	■								
Borehole Drilling				■	■	■						
Casing & Borehole Development					■	■						
Test Pumping & Yield Testing						■	■					

Water Quality Testing												
Solar Installation												
Pump & Electrical Installation												
Tank Construction & Storage Setup												
Distribution Pipeline Installation												
Community Standpipe Installation												
Livestock Water Point Construction												
Monitoring System Integration												
Community Training												
Commissioning & Handover												
Final Reporting & Donor Closeout												

Key Project Milestones

Milestone	Target Week
Site Confirmation Completed	Week 2
Regulatory Approvals Secured	Week 5
Borehole Drilling Completed	Week 7
Solar Infrastructure Installed	Week 9
Distribution Network Completed	Week 10
Community Training Completed	Week 11
Final Commissioning & Handover	Week 12

Project Delivery Outcome

Upon successful implementation, the project is expected to provide:

- Sustainable water access to approximately 800–1,500 people
- 80,000–150,000 liters of water daily
- Reduced household water collection burdens
- Improved public health and sanitation outcomes
- Drought-resilient community infrastructure
- Long-term climate adaptation and resilience benefits