

**Annex E  
FINAL REPORT**

**Contractor**

Name of the Local Organization providing the report:	Pastoral Livelihood Support and Empowerment Program (PALISEP)
Address:	Email: palisep.ngorongoror@hotmail.com/255757000600
Person in charge of the final report:	Robert Kamakia

**Identification of the project**

Name of the project:	Engagement and empowerment of women, Indigenous Peoples, youth, and local communities in biodiversity conservation for resilient livelihood.
MOA/Agreement number:	TAN/SGP/OP7/Y4/STAR/BD/2023/33
Type of project:	Biodiversity Thematic Area
Location:	Magaiduru Oloirien and Oldonyowas, Ngorongoro District Arusha Region
Start-up Date: 21 February 2024	Completion Date: 20 December 2025

Please provide results on specific project indicators on mandatory global environmental and socio-economic benefits as well as optional project indicators:

- Freshwater ecosystem protection:** A total of 1.5 acres of the Ormekeke water catchment was effectively protected through the installation of a perimeter fence, restricting uncontrolled human and livestock access. This intervention significantly reduced physical degradation, soil erosion, and contamination of the water source. Complementary restoration measures, including the planting of indigenous tree species, strengthened the ecological integrity of the catchment, enhanced natural recharge, and contributed to the long-term sustainability and resilience of this critical freshwater ecosystem for both pastoralist communities and their livestock.
- Improved Livelihoods through Enhanced Water Access:** The project successfully secured reliable and safer water access for approximately 15,000 pastoralists and their livestock, significantly improving their daily livelihoods. With the construction of a modern concrete cattle trough, the project alleviated longstanding water access issues, enhancing livestock productivity by ensuring a consistent supply of clean water. This infrastructure directly addressed overcrowding at water points, reducing competition and conflicts among pastoralists. By streamlining water access, the project fostered a more harmonious community environment, while bolstering the resilience of local livelihoods, especially those dependent on livestock for their income and sustenance.
- Biodiversity Conservation and Sustainable Land Use:** The beekeeping activities contribute significantly to the preservation of local ecosystems by supporting plant pollination, essential for agriculture and natural habitats. This effort helps protect critical habitats for large carnivores, prey species, and livestock. Additionally, the installation of beehives near water sources promotes sustainable land use practices, ensuring both honey production and access to water for bee colonies, enhancing the local ecosystem's resilience and overall environmental health.
- Women's Empowerment, Youth Inclusion, and Sustainable Livelihoods:** The beekeeping initiative has empowered 45 participants (25 women and 20 men) by equipping them with technical beekeeping skills, thereby enabling them to diversify their income sources through honey production and processing. By training both women and youth, the project addressed unemployment while fostering financial autonomy. The development of action plans and leadership skills within the groups ensures that they can sustain their beekeeping activities long-term, ensuring continued economic growth and community-driven success.

GEF SGP OP7 Core Global Environmental Indicators <b>(at least one is required)</b>		
Please checkmark applicable ones	GEF OP7 Core Global Environmental Indicators	Please provide results achieved (in numbers)
<input type="checkbox"/>	Marine protected areas under improved management effectiveness (hectares)	=

<input type="checkbox"/>	Area of degraded agricultural lands restored (hectares)	=
<input checked="" type="checkbox"/>	Area of landscapes under improved management to benefit biodiversity (hectares)	=683 hectares
<input type="checkbox"/>	Area of landscapes under sustainable land management in production systems (hectares)	=
<input type="checkbox"/>	Area of marine habitat under improved practices to benefit biodiversity (hectares; excluding protected areas)	=
<input type="checkbox"/>	Solid and liquid Persistent Organic Pollutants (POPs) and POPs containing materials and products removed or disposed (tons)	=
<input type="checkbox"/>	Number of direct beneficiaries of SGP intervention (total)	=1200
	Number of Women	=850
	Number of Men	=350

**GEF SGP OP7 Socio Economic Indicators**

Please checkmark applicable ones	Socio- Economic Indicators	Please provide results achieved
<input type="checkbox"/>	Number of direct beneficiaries with improved livelihoods and well-being	=1200
<input type="checkbox"/>	Does the project develop capacities of organizations (CSOs/CBOs) or people?	No
<input type="checkbox"/>	If Yes, number of organizations with improved capacities (CSOs/ CBOs)?	=
<input type="checkbox"/>	If Yes, number of people with improved capacities?	=
Please checkmark applicable ones	Gender Indicators	Please provide results achieved (Indicate YES or NO)
<input checked="" type="checkbox"/>	Was the project led by women?	Yes
<input type="checkbox"/>	Did the project contribute to equal access to and control of natural resources of women and men?	Yes
<input type="checkbox"/>	Did the project improve the participation and decision-making of women in natural resource governance?	Yes
<input type="checkbox"/>	Did the project target socio-economic benefits and services for women	Yes/

**Budget and finance**

Total Project Cost:	USD: 31,975
Amount received under this Agreement:	<b>USD: 31,975</b>
Amount received from other sources of funding:	USD = 0
Contribution of the Local Organization or the recipient community: [Please estimate cash and in-kind contribution in USD]	Total cash and in-kind contribution in USD = 4000
	Cash contribution only (in USD) =2,000
	In-kind contribution only (value in USD) =2,000

Key activities performed by the project (as per your final proposal/amendment)	Output achieved
Support Water Source protection at the Sariani Community Forest by fencing Sariani Water Source and Ormelelek	The Ormekeke water source plays an integral role in sustaining the livelihoods of pastoralist communities residing

<p>Springs</p>	<p>in the Magaiduru area, Ngorongoro District. Serving approximately 15,000 residents within the Oloirien ward, this critical water point has experienced significant degradation in recent years, resulting in acute water shortages that have adversely impacted both the local population and their livestock.</p> <p>To mitigate this challenge, the intervention sought to protect and restore the water source by implementing sustainable conservation measures. A key component of this initiative involved the installation of a protective fence, covering an area of 1.5 hectares, to restrict access by both humans and livestock. In addition, the local community actively engaged in the restoration process by planting indigenous trees around the water source, fostering long-term water retention and ecosystem resilience.</p> <p><b>Impact and Results:</b>  <b>Water Conservation:</b>        The installation of the protective fence, coupled with the planting of indigenous vegetation, has resulted in a notable reduction in the degradation of the water source. This intervention has directly contributed to ensuring continued access to clean water for both the community and their livestock, thus improving overall water security in the region.</p> <p><b>Sustainability:</b>        This initiative has laid a solid foundation for sustainable water resource management, with long-term benefits for the local population. By safeguarding the water source and promoting the growth of native flora, the project has created an enduring ecological balance that will serve the community's needs for years to come.</p> <p>The commitment to conserving this vital resource aligns with broader objectives of environmental stewardship and community resilience, ensuring that both people and livestock have reliable access to water while maintaining the integrity of the surrounding ecosystem.</p>
<p>Facilitating the construction of a Cattle trough</p>	<p>The pastoralist community of Oloirien Village, located in the Ngorongoro District, heavily relies on livestock as a primary source of livelihood. Access to clean and adequate water for cattle is essential for maintaining livestock health and productivity. In response to growing demand and challenges associated with limited watering infrastructure, a new cattle trough was constructed to improve livestock access to water</p> <p>The project involved the construction of a modern concrete cattle trough adjacent to an existing water source. The trough was designed with durability, capacity, and ease of access in mind. Local community members participated actively in the project through site preparation, material transport, and supervision</p> <p><b>Results /Impact</b></p> <ul style="list-style-type: none"> <li>•The trough is currently in full use, significantly easing the burden on herders and minimizing conflicts caused by overcrowding at the water source.</li> <li>•Approximately 1,800 livestock have benefited from this infrastructure, which now provides a cleaner and more</li> </ul>

	<p>organized access point for drinking water, enhancing overall animal welfare.</p> <p>•Approximately 200 households in the area are directly benefiting from the infrastructure, with potential to support more during peak seasons.</p>
<p>Training of 100 (60 women, (40) youth, and people with disabilities inclusive on Beekeeping and Honey Value chain development</p>	<p>A three-day beekeeping training workshop was successfully conducted in the Loliondo Division, aimed at equipping unemployed women and youth with foundational knowledge and practical skills in beekeeping development. The training, facilitated by the Maasai Beekeeping Initiatives, targeted participants from the project villages, with a total of 45 attendees (25 women and 20 men).</p> <p>The workshop covered a range of essential topics designed to build a comprehensive understanding of beekeeping and its associated activities, including:</p> <ul style="list-style-type: none"> <li>✓ The biology and life cycle of bees</li> <li>✓ Bees' role in the natural environment</li> <li>✓ Best practices in apiary management</li> <li>✓ Types of beehives</li> <li>✓ Techniques for processing and packaging honey, candles, and soap</li> </ul> <p><b>Training Methodology:</b> The training methodology was interactive and participatory, utilizing PowerPoint presentations, facilitated discussions, and experience-sharing sessions. Participants were encouraged to engage in discussions, raise questions, and share experiences. These sessions allowed for in-depth exploration of each topic, ensuring that the participants gained both theoretical knowledge and practical insights.</p> <p><b>Key Outcomes:</b></p> <p><b>Capacity Building:</b> Participants acquired essential technical knowledge and skills in beekeeping through hands-on demonstrations and collaborative discussions. This participatory approach facilitated deeper understanding and skill-building, particularly in apiary management and the processing of bee products.</p> <p><b>Action Planning and Leadership Development:</b> Following the training, each group developed work plans to guide their beekeeping activities. These plans, combined with the leadership skills gained during the training, will enable participants to effectively coordinate their activities, particularly in collaboration with PALISEP's ongoing initiatives.</p> <p><b>Knowledge Transfer:</b> Each participant was provided with technical fact sheets and beekeeping manuals, including a guide for trainers focused on small-scale beekeeping development. These materials serve as valuable resources for continued learning and capacity-building in the community.</p> <p><b>Recommendations from Participants:</b> Given that PALISEP introduced beekeeping to beginners, participants emphasized the importance of consistent, on-site monitoring and regular supervision by extension staff and local experts. This will be vital to ensure the sustainability and</p>

	<p>success of the beekeeping initiatives.</p> <p><b>Development of Action Plans at Village Level:</b> It was recommended that youth and women groups receive assistance in developing actionable plans at the village level. These plans should outline specific beekeeping activities tailored to the needs of each group, fostering ownership and accountability.</p> <p><b>Follow-up and Technical Support:</b> Participants suggested that district forestry officers provide regular follow-up and technical support to youth and women groups, ensuring that the activities outlined in their action plans are effectively implemented and supported.</p> <p><b>PALISEP's Continued Support:</b> It was further recommended that PALISEP provide ongoing support to the youth and women groups in collaboration with the Office of Forestry and other relevant government departments. This partnership will be crucial for the continued success of the beekeeping initiative and to ensure that the groups are equipped with the necessary resources and guidance.</p>
<p>Support Beehives to 120 (80 women, 40 men, youth, and people with disabilities inclusive).</p>	<p>The beekeeping initiative serves a dual purpose: enhancing the economic empowerment and autonomy of women, while simultaneously contributing to the conservation of vital ecosystems, including habitats critical to large carnivores, prey species, and livestock. This intervention aimed to equip groups of women and youth with the resources necessary for honey production through the provision of beehives. During the reporting period, a total of 60 beehives were distributed to beneficiaries in the project villages, fostering sustainable livelihoods and environmental stewardship.</p> <p><b>Key Outcomes and Results:</b></p> <p><b>Enhanced Capacity for Beekeeping Management:</b> Beneficiaries have demonstrated significant progress in establishing effective management practices for the beehives. A strategic care plan has been developed, which involves a rotational system where four individuals are assigned to manage the beehives each week. This ensures continuous oversight and the sustainable maintenance of the hives, contributing to the long-term success of the initiative.</p> <p><b>Partnership with Local Authorities for Resource Allocation:</b> The Village Government has actively supported the initiative by designating an area near the water source for the installation of the beehives. This strategic location will allow the bees to access water more easily, thereby supporting the honey production process. The proximity to water is vital for ensuring the health and productivity of the bee colonies, which in turn will improve the quality and quantity of honey produced.</p>
<p>Procurement of 2 honey processing machines, packaging material, and Protective gears</p>	<p>The primary objective of this initiative is to empower women with access to high-quality equipment essential for honey production, alongside supplementary resources to ensure the availability of fresh honey. During the reporting period, PALISEP successfully distributed the following equipment to women:</p> <ul style="list-style-type: none"> <li>• 5 pairs of gloves</li> </ul>

	<ul style="list-style-type: none"> <li>• 5 bee suits and jackets to protect against bee stings</li> <li>• 5 pairs of boots for foot and ankle protection</li> <li>• 2 manual processing machines</li> </ul> <p><b>Outcome:</b> The beneficiaries have successfully implemented their long-term strategies for honey production. Their interim plan includes bi-weekly processing sessions on Mondays and Thursdays, while other days are dedicated to marketing and production activities. A rotating schedule already in place to manage sales and production. Weekly meetings are held to monitor production, sales, and marketing efforts, with a leadership structure established for the next 12 months. An annual meeting will be convened to elect new leadership, creating opportunities for beneficiaries to share progress and gain valuable insights.</p>
Project Monitoring	<p>The PALISEP Board oversees the implementation of the Global Environment Facility (GEF) Small Grants Programme (SGP) to ensure alignment with organizational objectives. Monitoring is mandatory under PALISEP's operational guidelines, ensuring compliance with both internal regulations and GEF/SGP terms.</p> <p><b>Objectives of Monitoring:</b></p> <ul style="list-style-type: none"> <li>• Assess progress against goals and milestones</li> <li>• Ensure financial accountability</li> <li>• Evaluate community impact, especially in environmental conservation and livelihoods</li> <li>• Identify challenges and recommend improvements</li> </ul> <p><b>Monitoring Process:</b></p> <ul style="list-style-type: none"> <li>• <b>Quarterly Board Meetings</b> to review reports and financial statements</li> <li>• <b>Field Visits</b> to assess on-the-ground progress and engage with beneficiaries</li> <li>• <b>Project Reports</b> from coordinators</li> <li>• <b>Stakeholder Feedback</b> to evaluate community impact</li> </ul> <p><b>Key Findings:</b></p> <ul style="list-style-type: none"> <li>• The project is progressing as planned with achievements in water management, resource conservation, and improved livelihoods.</li> <li>• Financial expenditures are within budget, but a more detailed breakdown is recommended.</li> <li>• Positive community impact, particularly in water access and sustainable farming.</li> <li>• Challenges include delays due to climatic conditions and logistical issues, and a need for more training in resource management.</li> </ul> <p><b>Recommendations:</b></p> <ul style="list-style-type: none"> <li>• Strengthen community engagement for greater project ownership.</li> <li>• Address delays by adjusting the timeline.</li> <li>• Expand capacity-building sustainable environmental conservation.</li> </ul>

**Results:**

Describe to what extent the project has met its objectives in reference to the key results achieved under the GEF SGP OP7 Mandatory Global Environment Indicators and Socio-economic indicators above:

Project objective	Extent to which the project has met its objectives
<b>Freshwater ecosystem protection</b>	Protected 1.5 acres of the Ormekeke water catchment through fencing and restoration, significantly reducing degradation, erosion, and contamination while strengthening ecosystem resilience and long-term water sustainability.
<b>Improved livelihoods and water access (Socio-economic)</b>	Secured reliable and safe water access for approximately 15,000 pastoralists and their livestock through improved infrastructure, reducing overcrowding and conflicts, and enhancing livestock productivity and livelihood resilience.
<b>Biodiversity conservation and sustainable land use:</b>	Promoted biodiversity and ecosystem health through beekeeping, supporting pollination, protecting critical habitats, and encouraging traditional sustainable land use practices around water sources.
<b>Women's empowerment and youth inclusion (Socio-economic):</b>	Empowered 115 women and 45 youth with beekeeping skills, enabling income diversification, strengthening leadership and self-reliance, and supporting sustainable, community-driven livelihoods.

**Describe the immediate benefits received by the participants and/or the recipient communities:**

- Enhanced skills and knowledge:** Women and youth gained immediate practical and theoretical skills in beekeeping, including apiary management, hive types, and processing of honey and other bee products, increasing their readiness to engage in income-generating activities.
- Improved livelihood opportunities:** Participants are now equipped to initiate beekeeping as a viable livelihood option, creating short-term income prospects and reducing unemployment among women and youth.
- Strengthened environmental awareness:** Training on the role of bees in ecosystems increased participants' understanding of biodiversity conservation and the importance of protecting natural resources.
- Improved community collaboration:** The participatory training approach strengthened networks among women, youth, PALISEP, and local technical actors, laying the foundation for ongoing support, supervision, and sustainability of the beekeeping initiative.
- Group organization and action planning:** Beneficiaries developed group work plans and basic leadership skills, enabling coordinated implementation of beekeeping activities and immediate ownership of project initiatives.
- Access to technical resources:** Distribution of manuals and fact sheets provided participants with reference materials for continued learning and immediate application of best practices within their communities.

**Describe long-term environment and socio-economic benefits that were achieved by the project or would potentially be achieved if the project is sustained:**

- Sustained freshwater ecosystem resilience:** Continued protection and restoration of the Ormekeke water catchment will ensure long-term availability of clean and reliable water by reducing erosion, contamination, and ecosystem degradation. The regeneration of indigenous vegetation will enhance groundwater recharge, stabilize soils, and strengthen climate resilience, securing this critical freshwater resource for pastoralist communities and their livestock over time.
- Improved and resilient pastoral livelihoods:** Reliable access to safe water will sustain livestock health and productivity, reducing losses during dry periods and improving household income and food security. Reduced congestion and conflicts at water points will promote long-term social cohesion, while enhanced water infrastructure will lower time and labor burdens, particularly for women and youth.
- Enhanced biodiversity conservation and sustainable land use:** Sustained beekeeping activities will continue to support pollination, strengthening agricultural productivity and the regeneration of natural vegetation. By promoting environmentally friendly land-use practices around water sources, the project contributes to the protection of critical habitats for wildlife and livestock, reinforcing ecosystem balance and long-term environmental health.
- Long-term women and youth empowerment through diversified livelihoods:** The continued application of beekeeping skills and group action plans will enable women and youth to generate stable, climate-resilient income from honey and related products. Strengthened leadership, entrepreneurship, and collective organization will enhance financial autonomy, reduce dependency on livestock alone, and foster inclusive, community-led economic development.

**Challenges and Opportunities:**

Describe challenges/difficulties faced and new opportunities during the implementation of the project

Challenges/difficulties faced	Describe actions taken to solve challenges/difficulties faced
<i>Tanzania General Election Campaigns</i> - Project activities experienced temporary delays as community members, leaders, and key stakeholders shifted their attention to election-related campaigns and civic responsibilities, reducing availability for meetings, trainings, and field activities.	Implementation timelines were adjusted to accommodate the election period, with activities rescheduled to non-peak political periods.
<i>Prolonged Drought</i> -Prolonged drought conditions limited community availability for project activities as pastoralists prioritized livestock Mobility leading to delays in implementation.	Project schedules were adjusted to align with seasonal conditions and community movements, ensuring activities were implemented when participants were available.

**New opportunities during the implementation of the project**

1. Through this project, PALISEP successfully secured financial support from the Global Green grants Fund. This support enabled the delivery of biodiversity trainings in neighboring villages and significantly expanded the number of beneficiaries engaged in beekeeping initiatives, thereby strengthening community livelihoods while promoting environmental conservation.

**Key lesson learned:**

1. ***Integrated ecosystem protection delivers sustainable results:*** Physical protection of freshwater catchments, combined with ecological restoration (e.g., fencing and indigenous tree planting), is highly effective in reducing degradation and ensuring long-term water source sustainability.
2. ***Community-centered water infrastructure reduces conflict:*** Investing in appropriate, durable water infrastructure improves access for people and livestock, reduces overcrowding and resource-based conflicts, and strengthens pastoral livelihoods.
3. ***Linking livelihoods to conservation enhances impact:*** Nature-based livelihood options such as beekeeping can simultaneously improve household incomes and promote biodiversity conservation and sustainable land use.
4. ***Women and youth inclusion strengthens resilience:*** Actively engaging women and youth in income-generating activities builds skills, promotes economic independence, addresses unemployment, and enhances long-term community ownership.

Please upload up to 5 different high-quality, best photos from your project sites. [Please click here to upload photos in Google drive](#) or [share a link to your drive by pasting it here:](#)

**Date submitted:5/1/2026**
**Submitted by: Robert Kamakia**

**Annex F:  
Final Financial Report**

<b>Date</b>	7 <sup>TH</sup> January 2026
<b>Project Number:</b>	TAN/SGP/OP7/Y4/STAR/BD/2023/33

<b>Project Name:</b>	Engagement and empowerment of women, Indigenous Peoples, youth, and local communities in biodiversity conservation for resilient livelihood.
<b>Name of the Local Organization/Grantee</b>	Pastoral Livelihood Support and Empowerment Program (PALISEP)
<b>Total Amount of Funds Under the Agreement (In USD)</b>	31,975
<b>Date of signature of the Agreement</b>	21 February 2024

**FOR THE ENTIRE PERIOD OF THE GRANT**

<b>Column 1: Project Activities/budget line</b>	<b>Column 2: Global Budget - TSH (Approved amount for each activity/budget line listed under column 1 including any reallocation made)</b>	<b>Column 3: Total Expenditure – TSH (during the life of the project for each activity/budget line listed under column 1)</b>	<b>Column 4: Remaining Balance-TSH (Column 2 – Column 3 = Column 4)</b>
ACTIVITY ONE;			
SUB-ACTIVITY 1: Inception Workshop/ Project Launch.	6,300,000	6,300,000	
ACTIVITY TWO;			
SUB-ACTIVITY 1: Support 80 Beehives to 120 (80 women, 40 men, youth, and people with disabilities inclusive.	14,120,000	14,120,000	
SUB-ACTIVITY 2: Procurement of 2 honey processing machines, packaging material, and Protective gears	7,400,000	7,400,000	
SUB-ACTIVITY 3: Training of 100 (60 women, (40) youth, and people with disabilities inclusive on Beekeeping and Honey Value chain development	8,670,000	8,668,200	1,800
SUB-ACTIVITY 2: Support Water Source protection at the Sariani Community Forest by fencing Sariani Water Source and Ormelelek Springs and construction of water point	18,400,000	18,385,000	15,000
ACTIVITY FOUR.			
SUB-ACTIVITY 1: Learning Event	3,000,000	3,000,000	
Project Management and Administration	15,600,000	15,600,000	
Project Monitoring	7,010,000	7,010,000	
<b>TOTAL</b>	<b>80,500,000</b>	<b>80,500,000</b>	
ACTIVITY ONE;			
SUB-ACTIVITY 1: Inception Workshop/ Project Launch.	6,300,000	6,300,000	
ACTIVITY TWO;			
SUB-ACTIVITY 1: Support 80 Beehives to 120 (80 women, 40 men,	14,120,000	14,120,000	

**GRANT MANAGEMENT SERVICES (GMS)**

youth, and people with disabilities inclusive.			
SUB-ACTIVITY 2: Procurement of 2 honey processing machines, packaging material, and Protective gears	7,400,000	7,400,000	
SUB-ACTIVITY 3: Training of 100 (60 women, (40) youth, and people with disabilities inclusive on Beekeeping and Honey Value chain development	8,670,000	8,670,000	
SUB-ACTIVITY 2: Support Water Source protection at the Sariani Community Forest by fencing Sariani Water Source and Ormelelek Springs and construction of water point	18,400,000	18,400,000	
ACTIVITY FOUR.			
SUB-ACTIVITY 1: Learning Event	3,000,000	3,000,000	
Project Management and Administration	15,600,000	15,508,700	91,300
Project Monitoring	7,010,000	7,010,000	
<b>Total</b>	<b>80,500,000</b>	<b>80,391,900</b>	<b>108,100</b>

**Summary:**

Total Budget approved: [USD amount as per MOA] **USD: 31,975**

Funds advanced by end of the project [Write total in USD as per MOA disbursement schedule, if you have received all disbursements the figure here should be the same as Total Budget approved]: **USD: 31,975**

Total Amount of expenditures in TZS: 80,391,900/=, equivalent to USD 31,931.

Remaining Balance (if any exists, see total of column 4): **TZS 108,100/=**

**Certified by:**

Name: Robert Kamakia

Signature:

Stamp:

The Local Organization is responsible for compiling and providing all supporting documentation or information related to this report at the request of UNOPS.