

Jaarverslag 2024

GEEF DE KINDEREN VAN MPONGWE EEN TOEKOMST (GKMT)



Stichting GKMT

Adres: Pastoor Wichersstraat 4U, 6525TN Nijmegen – KvK nr. 14074683 conform 2012

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Voorwoord

Het jaar 2024 ligt achter ons en we presenteren daarom met plezier in dit jaarverslag hoe de stichting 'Geef de Kinderen van Mpongwe een Toekomst' (GKMT) haar doelstellingen gedurende dat jaar heeft nagestreefd.

Dit verslag zal aanmerkelijk korter zijn dan het vorige omdat het voor de stichting een relatief rustig jaar was. De school draait volop en onze verantwoordelijkheden zijn beperkt tot het leveren van financiële ondersteuning op deelprojecten van de school. We blijven uiteraard de ontwikkelingen goed volgen en vragen daarom aan het management van de school om ons via jaarverslagen, toekomstplannen en updates over lopende projecten op de hoogte te houden.

In dit jaarverslag maken we gebruik van die rapportages door ze als bijlages toe te voegen. Het geeft een goed detailbeeld van de ontwikkelingen, de financiële stand van zaken én de uitdagingen voor de toekomst. GKMT zal ook in 2025 en hopelijk nog de jaren erna bijdrages leveren aan die ontwikkelingen. Hier bieden we transparantie van onze eigen financiële administratie en leggen daarmee verantwoording af aan onze donateurs. We hopen van harte dat onze donateurs de stichting ook in de toekomst financieel blijven ondersteunen, zodat daarmee de doelen van de stichting worden behaald. We bedanken eenieder en wensen jullie veel leesplezier, namens de stichting 'Geef de Kinderen van Mpongwe een Toekomst'.

Met warme groeten,

Het bestuur Stichting Geef de kinderen van Mpongwe een toekomst

Ton Korsten-Korenromp
Voorzitter

Michael van Zinnicq Bergmann
Secretaris

Marcel Didden
Penningmeester

Leon Weijs
Lid



Inhoudsopgave

1.	Het Zambia College of Agriculture Mpongwe (ZCA).....	3
1.1	<i>Ontwikkeling studentenaantallen</i>	3
1.2	<i>Ontwikkeling infrastructuur van de school</i>	3
1.3	<i>Ontwikkeling van het onderwijs</i>	4
2.	Stichting GKMT	4
2.1	<i>Algemeen</i>	4
2.2	<i>Financiën</i>	4
	Bijlages	8
	Bijlage 1 Annual performance report 2024 (ZCA Mpongwe)	9
	Bijlage 2: Drip Irrigation Report.....	21

1. Het Zambia College of Agriculture Mpongwe (ZCA)

De school is inmiddels een volwaardig onderdeel van het Zambiaanse agrarisch opleidingsprogramma en één van de 7 Zambiaanse Colleges of Agriculture. De organisatie ontwikkelt zich op allerlei gebied steeds verder, zoals curriculum, organisatiestructuur, onderwijsfaciliteiten en positionering binnen de Copper Belt regio. In bijlage 1 vindt u het jaarverslag met detailinformatie. In onderstaande paragrafen gaan we slechts kort in op enkele onderdelen.

1.1 Ontwikkeling studentenaantallen

In het kalenderjaar 2024 waren er 295 studenten ingeschreven voor de twee opleidingsniveaus die de school aanbood: Een drie-jarig 'Diploma in General Agriculture' (full-time and distance learning) en een 2-jarig 'Certificate in General Agriculture' (full-time and distance learning). Daarmee groeit de school gestaag door in aantallen wat ook wel voor uitdagingen zorgt op het gebied van onderwijsvoorzieningen en onderwijspersoneel.

Op 14 november 2024 organiseerde de school haar inmiddels 3^{de} 'graduation ceremony' waar 130 studenten een Certificate in General Agriculture in ontvangst nam: 92 jonge Zambiaanse mannen en 38 jonge Zambiaanse vrouwen (zie ook <https://youtu.be/EEWII9Y14Fk?si=VKbM-mz054hVxufP>)

Een feestelijke gebeurtenis waar lokale en regionale bestuurders bij aanwezig waren. Kortom, de studentenaantallen laten een groei zien de laatste jaren en ook het aantal afgestudeerden neemt daarmee toe. Toekomstperspectieven voor jonge Zambianen in de regio rond Mpongwe vanwege een goede ontwikkeling van hun competenties in de land- en tuinbouw en dierlijke productie.

1.2 Ontwikkeling infrastructuur van de school

Met de beperkte voorradige middelen die de school heeft, werd ook in het jaar 2024 verder gebouwd aan de infrastructuur van de school. Dit betekent investeringen in de onderkomens van de 295 studenten die op de campus verblijven, in de lokalen, laboratoria en andere onderwijsvoorzieningen. Met name het praktische gedeelte van het onderwijs heeft aandacht gekregen zodat de studenten de agrarische kennis en kunde in de praktijk verder kunnen ontwikkelen.

Naast de noodzakelijke beschikbaarheid van praktijkonderwijsvoorzieningen, heeft de school ook behoefte aan inkomsten die voortkomen uit agrarische (en andere) activiteiten. Dit betekent dat er geïnvesteerd is in akker- en tuinbouw en dierlijke productie. Opbrengsten worden gebruikt voor de maaltijden van de studenten en als inkomstenbron voor de school. GKMT heeft op verzoek van de school bijgedragen aan het 'drip-irrigation project' wat voor betere opbrengsten heeft gezorgd in de tuinbouw activiteiten.

1.3 Ontwikkeling van het onderwijs

Naast regulier ‘Certificate-’ en ‘Diploma-onderwijs’, wordt ook cursorisch onderwijs verzorgd en wordt ZCA Mpongwe erkend als partner voor de uitvoering van landelijke projectmatige opleidingsprogramma’s. Omdat ZCA Mpongwe 100% onder de aansturing van het Zambiaanse Ministerie van Landbouw valt, is GKMT niet meer inhoudelijk betrokken bij de ontwikkeling van de curricula en de diversiteit in onderwijsaanbod. Gezien de ontwikkeling van het aantal studenten op de campus én het constante aanbod van cursorisch onderwijs, is er een groot vertrouwen in de gekozen koers van de school.

2. Stichting GKMT

2.1 Algemeen

Voor GKMT was 2024 een uitgesproken rustig jaar. Er zijn door de leden van het bestuur geen bezoeken gebracht aan Mpongwe. Alle contacten met de school in Mpongwe verliepen via WhatsApp, telefonisch of via de mail. Intern bestuurlijk overleg was dan ook enkel sporadisch nodig. Slechts over de gevraagde investeringen in de drip-irrigation is overleg geweest. Voor meer info hierover, zie bijlage 2. Wel is via Zoom bijeenkomsten gesproken over de toekomstige rol van GKMT in de ontwikkelingen van de school in Mpongwe. Omdat we geen inhoudelijke of financiële verantwoordelijkheid meer hebben over de gang van zaken, zijn we gestart met het herzien van de positie en rol van de stichting. Hiervoor gaan we het jaar 2025 en 2026 gebruiken, waarbij we ook aan ZCA Mpongwe duidelijkheid kunnen verschaffen over welke bijdrages men kan vragen en verwachten vanuit de stichting. Een van de aandachtspunten hierbij is een van de oorspronkelijke doelen van GKMT, namelijk de positie van OVC’s (Orphans and Vulnerable Children). Hierover is GKMT in gesprek met het management van de school.

2.2 Financiën

De jaarrekening is opgesteld in overeenstemming met de richtlijn voor fondsenwervende instellingen zoals die door de Raad voor de Jaarverslaggeving is gepubliceerd (richtlijn 650). In dit boekjaar hebben geen aanpassingen plaatsgevonden.

BALANS PER 31 DECEMBER 2024

			Ref.	31/12/2024	31/12/2023
ACTIVA				€	€
Banksaldo				11.001	7.293
Saldo spaarrekeningen				8.722	8.711
Effecten (aandelen, obligaties)				0	0
Kassaldo				0	0
Totaal liquide middelen				19.723	16.004
Totaal Activa				19.723	16.004
PASSIVA					
Reserves en Fondsen					
Bestemmingsfonds project:	OVC-programma		1	75	75
	ZCA Mpongwe Education		1	0	0
	ZCA Mpongwe Construction		1	0	0
	YPO		1	0	0
	Guest House		1	0	0
Overige reserves				19.648	15.929
Totaal reserves en fondsen				19.723	16.004
Totaal Passiva				19.723	16.004

STAAT VAN BATEN EN LASTEN OVER 2024

					Werkelijk 2024	Werkelijk 2023
					€	€
(1) Besteed aan doelstellingen						
OVC-programma						
besteding vanuit baten boekjaar en algemene reserve					0	0
besteding vanuit bestemmingsfonds inclusief specifieke giften dit jaar					0	0
					0	0
ZCA Mpongwe Education						
besteding vanuit baten boekjaar en algemene reserve					0	0
besteding vanuit bestemmingsfonds inclusief specifieke giften dit jaar					0	0
					0	0
ZCA Mpongwe Construction						
besteding vanuit baten boekjaar en algemene reserve					5.000	22.961
besteding vanuit bestemmingsfonds inclusief specifieke giften dit jaar					0	0
					5.000	22.961
YPO						
besteding vanuit baten boekjaar en algemene reserve					0	0
besteding vanuit bestemmingsfonds inclusief specifieke giften dit jaar					0	0
					0	0
Guest House						
besteding vanuit baten boekjaar en algemene reserve					0	0
besteding vanuit bestemmingsfonds inclusief specifieke giften dit jaar					0	0
					0	0
(2) Kosten werving						
Folders en banieren					0	0
Website en hostingkosten					0	0
Kosten mailing akties					0	0
Overige kosten eigen fondswerving					0	0
					0	0
(3) Kosten beheer en administratie						
Kosten administratie					270	262
Reiskosten bestuur					0	0
Contributies, o.a. Partin					114	108
Overige kosten beheer en administratie					161	134
					545	504
(4) Financiële baten en lasten						
Rentebaten					11	0
Rentelasten (negatief bedrag invullen)					0	0
dividend					0	0
koerswinsten					0	0
kosten beleggingen (negatief bedrag invullen)					0	0
					11	0

				Werkelijk 2024	Werkelijk 2023
BATEN				€	€
collecten		1		0	0
nalatenschappen		1		0	0
contributies		1		2.010	3.025
donaties en giften		1		5.244	2.036
eigen loterijen en prijsvragen		1		0	0
overige baten van particulieren		1		0	0
<i>totaal baten van particulieren</i>				7.254	5.061
baten van bedrijven		1		0	2.070
baten van loterijorganisaties		1		0	0
subsidies van overheden		1		0	0
ontvangen van andere organisaties zonder winststreven		1		2.000	5.000
<i>Som van de baten</i>				9.254	12.131
baten als tegenprestatie voor de levering van producten (gerealiseerde brutowinst op handelswaar)				0	0
Overige baten				0	0
Totaal baten beschikbaar voor doelstelling				9.254	12.131
LASTEN					
Besteed aan doelstellingen:					
OVC-programma		1		0	0
ZCA Mpongwe Education		1		0	0
ZCA Mpongwe Construction		1		5.000	22.961
YPO		1		0	0
Guest House		1		0	0
- overige bestedingen aan doelstellingen		1		0	0
Besteed aan doelstellingen				5.000	22.961
Wervingskosten		2		0	0
Kosten beheer en administratie		3		545	1.547
Som van de lasten				5.545	24.508
Saldo voor financiële baten en lasten				3.709	-12.377
Saldo financiële baten en lasten		4		11	0
Saldo van baten en lasten				3.720	-12.377
Bestemming saldo van baten en lasten					
toename bestemmingsfondsen (specifieke donaties) project:	OVC-programma			0	0
afname bestemmingsfondsen (betaald aan project dit jr) project:	OVC-programma			0	0
toename bestemmingsfondsen (specifieke donaties) project:	ZCA Mpongwe Education			0	0
afname bestemmingsfondsen (betaald aan project dit jr) project:	ZCA Mpongwe Education			0	0
toename bestemmingsfondsen (specifieke donaties) project:	ZCA Mpongwe Construction			0	0
afname bestemmingsfondsen (betaald aan project dit jr) project:	ZCA Mpongwe Construction			0	0
toename bestemmingsfondsen (specifieke donaties) project:	YPO			0	0
afname bestemmingsfondsen (betaald aan project dit jr) project:	YPO			0	0
toename bestemmingsfondsen (specifieke donaties) project:	Guest House			0	0
afname bestemmingsfondsen (betaald aan project dit jr) project:	Guest House			0	0
toe-/afname algemene reserves				3.720	-12.377
Saldo van baten en lasten/resultaat				3.720	12.377-

TOELICHTING OP DE STAAT VAN BATEN EN LASTEN

Baten

In 2024 is € 5.000 naar Mpongwe (ZCA Monze) overgemaakt voor ZCA Mpongwe Construction.

Lasten

De overheadkosten bestaan hoofdzakelijk uit administratiekosten. De kosten voor de voorzitter worden direct als gift naar de bankrekening van de stichting teruggestort en zijn niet in de administratie opgenomen. De bedragen die naar Mpongwe (ZCA Mpongwe) worden overgemaakt zijn inclusief 12% overhead boven op de directe projectkosten.

Bijlages

Bijlage 1: Annual performance report 2024 (ZCA Mpongwe)

Bijlage 2: Drip Irrigation Report



MINISTRY OF AGRICULTURE
ZAMBIA COLLEGE OF AGRICULTURE –MPONGWE

PERFORMANCE REPORT FOR THE YEAR
ENDING DECEMBER 2024

Compiled by: Ranton Malaka
Acting Principal

1.0 INTRODUCTION	10
2.0 TRAINING	11
2.1 Student Statistics	11
2.2 Graduation Ceremony	12
2.3 Training Staff	12
2.4 Training Facilities	12
3.0 COLLABORATIONS.....	13
3.1 SIFAZ Project.....	13
3.2 Seed Companies	14
4.0 FARM	14
4.1 Livestock	14
4.2 Student Projects	14
4.3 Drip Irrigation Project	14
5.0 ADMINISTRATION	15
5.1 Non-teaching staff	15
5.2 Training Staff	15
5.3 Staff Appointments	15
5.4 Staff housing	16
5.5 Agricultural Shows	16
6.0 SUMMARY OF FINANCIAL REPORT.....	16
7.0 CHALLENGES	18
7.1 Low staffing levels	18
7.2 Inadequate Transport	18
7.3 Lack of laboratory facilities	18
7.4 Inadequate classrooms.....	18
7.5 Office space.....	18
7.6 College Library	19
8.0 STAFF RETURNS.....	19

1.0 INTRODUCTION

Zambia College of Agriculture in Mpongwe is one of the seven Agricultural Training Institutions (ATIs) under the Ministry of Agriculture. The college is currently running two programmes namely a 3 year diploma in General Agriculture and a 2 year Certificate in General Agriculture. The college also offers short courses in various agricultural production courses such as poultry

production, horticultural production, fish farming and carpentry as the college is fully accredited to TEVETA.

The college is divided into three units namely Training, Administration and Farm. The Training unit is responsible for all the academic activities for the college and is headed by the Vice Principal. The Administration is headed by the Registrar and is responsible for student welfare, human resources and general maintenance of the college facilities. The Farm is responsible for all production activities for the college which includes crop and animal production. The farm is also used for student practical training which is essential to ensure that the students have hands on practical training.

This report will therefore outline activities that took place from January to December 2024. The report will include financial income and expenditure report covering all the units at the college.

2.0 TRAINING

The college commenced the second semester for the full time programme on 17th March 2024. All training activities were conducted without any major incidences. Classes for the second semester ended on 14th June 2024 and the following week the final Examinations commenced which were conducted from the 17th to 28th June 2024.

Students under distance learning reported for semester two on 14th July. The classes for distance learning ended on 9th August 2024.

The Academic Board meeting sat on 5th September 2024 to look at the second semester examination results. The same day after the ratification of the examination results, the results were published.

The new academic year for 2024-2025 started on the 23rd September 2024 when the first year students reported for the first semester. The returning students reported on 29th September 2024. Classes commenced on 30th September for the first semester. Classes ended on 20th December 2024 and the final examinations were conducted from 30th December to 10th January 2025.

During the period under review the college had the following number of students as indicated in the table below:

2.1 Student Statistics

S/N		Male	Female	Total
	CERTIFICATE			
1	First years(Regular)	42	62	104
2	Second years(Regular)	64	44	108
	DIPLOMA			
3	First Year(Regular)	27	19	46

4	First Year(Distance)	8	15	23
5	Second Year(Distance)	12	2	14
6	TOTAL	153	142	295

The college has a total number of 295 students categorized as follows; Full time students under a Certificate in General Agriculture programme 212, Diploma in General Agriculture fulltime students 46 and diploma in General Agriculture distance learning are currently 37.

2.2 Graduation Ceremony

During the period under review the college successfully held its 3rd graduation ceremony on 14th November 2024. A total of 130 students graduated with a Certificate in General Agriculture translating into 92 males and 38 females. The graduation ceremony was officiated by the District Commissioner for Mpongwe district who represented the Permanent Secretary Copperbelt Province as the guest of honour.

2.3 Training Staff

The college has a total of 14 training staff broken down as follows;

S.N	POSITION	NUMBER
1	Vice Principal	1
2	Heads of Department	1
3	Senior Training Officers	2
4	Training Officers	3
5	Farm Manager	1
6	Senior Practical Instructors	2
7	Practical Instructors	4

The college requires more training staff in order to be able to adequately deliver quality training to our students. The college has therefore continued to rely on part-time staff in order to beef up on the number of training staff.

2.4 Training Facilities

The college currently has the following training facilities;

S/N	TYPE	QTY	CAPACITY	REMARKS
1	Classrooms	2 1	130 60	Adequate Improvised but adequate for now
2	Computer laboratory	1	14 Computers	Not adequate and Old computers
3	Food Science laboratory	1	20 Students	Improvised and there's need for construction of new structure

4	Science laboratory	1	20 Students	Improvised, - All materials procured to complete the new lab
5	Library	1	20 Students	Inadequate books and space – e-library is being introduced
6	Carpentry Workshop	1	-	Fully Operational There is need for staff
7	Office Space	5		Not Adequate.
8	Students hostels (male)	5	-	Not adequate
9	Students hostels(female)	3	-	Not adequate

3.0 COLLABORATIONS

The college has continued to engage and collaborate with other partners and stakeholders in order to promote the college programmes as well as to improve its operations.

3.1 SIFAZ Project

The college has collaborated with FAO under the SIFAZ project to train cooperatives in agribusiness and sustainable agricultural systems.

The Sustainable Intensification of Smallholder Farming Systems in Zambia (SIFAZ) is a seven and half year project being implemented under the 11th European Development Fund National Indicative Programme (NIP). The project is being implemented by the United Nations Food and Agriculture Organization (FAO) in partnership with the International Maize and Wheat Improvement Centre (CIMMYT) and the Ministry of Agriculture in Zambia. The SIFAZ project aims at scaling up sustainable production and resilience of food systems to climate change induced shocks.

Zambia College of Agriculture Mpongwe was identified to be one of the service providers for the provision of training to the selected registered Cooperatives on the Copperbelt Province. As one of the Enterprise Development Service Providers (EDSPs), the college has been involved in training Cooperative members from Five Cooperatives. The training has been done in Cooperative Governance, Development of Business Proposals and Mechanisation.

The approved project budget was K281,430. The college received an initial first installment payment of K84,429 which was fully utilized during this reporting period.

The project successfully implemented all planned activities, including the development of an inception report, cooperative orientation, and training of five cooperatives with over 300 members. Key outputs included the development of business proposals, action plans, and the assessment of

cooperative performance. Coordination with the Ministry of Agriculture and other stakeholders ensured smooth facilitation and technical backstopping.

3.2 Seed Companies

The college has continued to partner with various seed companies especially in the establishment of student demonstration plots. The seed companies have provided inputs for the establishment of demonstration plots. The seed companies have also been active in providing sponsorship to deserving students during the graduation ceremonies. Among the key seed companies the college is currently working with include Synergy, Bayer, Seedco and Pannar.

4.0 FARM

The college farm is an important section of the college as it is used for income generation as well as being a training facility for our students. The college is sitting on 14 hectares of land of which only 6.3 ha is used for farming activities which is inadequate as the colleges are encouraged to go into commercial production.

The college desperately requires more land so that it can expand its farming activities both for training purposes and commercial production. During the period under review the college farm stocking was as follows;

4.1 Livestock

S/N	Livestock	Total Number
1	Pigs	64
2	Layers	407
3	Broilers	1000
4	Goats	28

4.2 Student Projects

S/N	Project	Production
1	Fish pond	10,000 fingerlings
2	Orchard	Half lima
3	Maize Production	3 Ha
4	Tomatoes	1 Lima
4	Cabbages	1 Lima

4.3 Drip Irrigation Project

In order to enhance horticultural production at the institution, during the period under review we were able to buy and install drip irrigation equipment at the college farm. This project will result in the production of horticultural

crops such as cabbages and tomatoes to supplement student feeding and for income generation for the college. Funding for this project was received from the Dutch Foundation Give the children of Mpongwe a Future (GKMF) through the Chairperson and founder Mrs Ton Korstein. The total cost of the project was K125, 219.25.

5.0 ADMINISTRATION

The college has a total of 37 members of staff

5.1 Non-teaching staff

The college has 20 non-teaching staff;

Support staff on pay roll – 9

- Executive officer - 1
- Stores/procurement officer – 1
- Maintenance officer - 1
- Electricians – 2
- Cook - 1
- General workers - 5

Casual workers (on college wage bill) - 10

5.2 Training Staff

The college currently has 14 teaching staff

- Head of department – 1
- Senior training officers – 3
- Training officers - 3
- Farm manager - 1
- Senior Practical instructors – 2
- Practical instructors - 3

5.3 Staff Appointments

The college is grateful to the Ministry of Agriculture for facilitating the appointment of members of staff who were previously working on a part-time basis. In the period under review two members of the college were appointed into the civil service, namely Mr. Garry Kabeba and Ms. Catherine Bwalya. However, the two staff have been posted to ZCA-Monze and ZCA-Mpika respectively where their position IDs exist. We therefore appeal to the Ministry

of Agriculture that more staff must be employed and deployed at ZCA Mpongwe to offset the shortage of staff.

5.4 Staff housing

The institution currently has only one house, which is occupied by the Acting Registrar. There is need for the college to acquire land for the construction of more houses to accommodate the college staff.

5.5 Agricultural Shows

The college was able to participate in all the agricultural shows during the period under review. The college participated in the District show, Provincial show, National show and the International Trade Fair.

6.0 SUMMARY OF FINANCIAL REPORT

S/NO	DESCRIPTION	RDC	REVOLVING FUND (RF)	STUDENT ACCOUNT
1	Student Provision	219,660.00	-	800,710.15
2	Training Materials	-	-	
3	Internet Bill	24,677.03	-	6,172.00
4	Student/Staff Study Tours	20,540.00	-	83,887.84
6	Students Projects/Back Stopping/Teaching Practice	-	-	
8	Training Workshops/Seminars	11,690.00		
9	Examinations		-	315,039.00
13	Academic Board and Other Training Meetings			9,821.48
14	Stationery	18,861.00	-	5,785.00
15	Zesco Bills	28,273.07	-	2,800.95
17	Graduation Ceremonies	46,051.56	-	95,500.00
	Accreditation with teaching council of zambia/Taveta	11,000.00		
19	Infrastructure improvements for practicals	116,269.00		184,800.00
20	Students sports	-	-	45,000.00

21	Training computer/projector	-	-	30,000.00
Sub Total For Training Function				
22	Vehicle/ Tractor Spares and Servicing	41,603.70	-	
23	Vehicle Insurance		-	
24	Fuels, Oils And Lubricants	50,290.00	-	15,000.00
25	Public Functions and Ceremonies		-	58,000.00
26	Statutory Contributions/Taxes		-	
27	Buildings, Surroundings Maintenance Materials & Licenses			210,453.00
28	District/Provincial /National Agricultural Shows	21,200.00		56,000.00
29	Cleaning materials			105,600.00
30	Casual Workers			430,686.00
31	Farm Operations (Income Generating Ventures)	156,453.16		252,623.00
33	Farm/other admin equipment			
34	Loading /Offloading and General Allowances	46,304.34	-	258,077.00
35	Staff Development		-	1,800.00
37	Domestic Water Repairs	14,687.00	-	28,150.00
38	Computer Peripherals/Ink & Cartridges		-	21,000.00
39	Office Furniture and Equipment		-	8,895.00
40	Advertisements		-	1,000.00
42	Bank Charges			
43	Other Admin Expenses	20,040.00		81,827.88
TOTAL EXPENDITURE		847,599.86	-	3,108,628.30

7.0 CHALLENGES

The college has challenges which require attention as they may affect the morale of staff if they persist. The current challenges for the colleges include low staffing levels, inadequate transport, lack of laboratory facilities, inadequate office space and inadequate classrooms.

7.1 Low staffing levels

The college lacks adequate staff at all levels for both training and administration units. This has resulted in the dependence on casual workers for administration section and hiring of part time lecturers for the training section. It is very important that this issue is addressed as it has affected efficiency and performance at the institution.

7.2 Inadequate Transport

Currently the college only has one reliable vehicle a Ford Ranger and this has hampered and disturbed a lot of activities that require transport. There is need for another utility vehicle for the smooth operations of the college.

The college also requires a bus in order to conduct student study tours and the bus will also help in facilitating movements for the participation of our students in sporting events.

7.3 Lack of laboratory facilities

The college currently has no single laboratory for science courses such as chemistry, physics, botany and zoology. This has affected the delivery of training as most practicals require laboratory facilities. The college has constructed one lab which is still incomplete and requires equipment and other laboratory requisites.

7.4 Inadequate classrooms

The college also does not have adequate classrooms. There are only two classrooms which is way below the required number of five classrooms to cater for both the certificate and diploma programmes.

7.5 Office space

The college also lacks enough office space for both training and administrative staff. There is need therefore to build more offices for

staff in order to improve on the college operations and boost staff morale.

7.6 College Library

The library is an important facility to enhance student learning and conduct research in order to do assignments. Currently the college lacks a functional library for the students. This has affected the academic performance of our students as they cannot access learning materials to enable them to study and do their assignments. There is need therefore to construct a library and equip it with modern books and literature to enhance learning.

8.0 STAFF RETURNS

N	EMPLOYEE NO	FIRST NAME	LAST NAME	NRC	POSITION	GENDER	DOB	DOFA	DOPA	SCALE	CURRENT STATION	Province
1	OO152182	RANTON	MALAKA	726040/11/1	VICE PRINCIPAL	M	19.11.79	06.10.06	22.10.24	K	ZCA-MPONGWE	Copperbelt
2	OO150115	MUNDIA	SILUMESII	462352/11/1	HEAD OF DEPARTMENT(CROPS)	F	04.07.70	02.10.06	06.09.23	K	ZCA-MPONGWE	Copperbelt
3	OOO88922	JOHN	SAKALA	250954/53/1	SENIOR TRAINING OFFICER	M	01.01.69	23.09.93	27.07.23	J	ZCA-MPONGWE	Copperbelt
4	OO104657	HASTINGS	MUNYENYEMBE	257492/66/1	SENIOR TRAINING OFFICER	M	01.01.75	16.03.05	27.07.23	J	ZCA-MPONGWE	Copperbelt
5	OO412257	PATRICK	CHINYANTA	156260/34/1	TRAINING OFFICER	M	02.11.92	23.02.23	23.02.23	I	ZCA-MPONGWE	Copperbelt

6	OO415606	KALINDA .M	MUCHINDU	345759/73/1	TRAINING OFICER	M	07.09.97	21.07.23	21.07.23	I	ZCA-MPONGWE	Copperbe
7	OO412263	TIFFANY	TEMBO	195939/18/1	TRAINING OFFICER	F	19.03.92	23.02.23	23.02.23	I	ZCA-MPONGWE	Copperbe
8	OO238545	OBRIAN	MAKONDO	263706/73/1	FARM MANAGER	M	28.11.80	26.02.13	27.07.23	I	ZCA-MPONGWE	Copperbe
9	OO240232	ZACHARIA	TEMBO	152906/10/1	SENIOR PRACTICAL INSTRUCTOR	M	02.08.91	30.01.13	27.07.23	H	ZCA-MPONGWE	Copperbe
10	OO433670	MEBBY	MUMBA	107612/26/1	EXECUTIVE OFFICER	F	03.02.85	23.04.24	23.04.24	G	ZCA-MPONGWE	Copperbe
11	OO179523	DAPHINE	SIMUUMBA	803563/11/1	PRACTICAL INSTRUCTOR	F	22.11.82	21.07.23	21.07.23	G	ZCA-MPONGWE	Copperbe
12	OO415628	CLARA	MASIYE	127351/78/1	PRACTICAL INSTRUCTOR	F	02.07.88	21.07.23	21.07.23	G	ZCA-MPONGWE	Copperbe
13	OO405374	MUTINTA	BEYANI	294046/73/1	PRACTICAL INSTRUCTOR	M	16.11.89	23.09.22	23.09.23	G	ZCA-MPONGWE	Copperbe
14	OO437398	GOLDEN	MWAMBAZI	889607/11/1	PRACTICAL INSTRUCTOR	M	07.02.90	18.07.24	18.07.24	G	ZCA-MPONGWE	Copperbe
15	OO435366	RICHARD	MWIYA	343589/10/1	MAINTENANCE OFFICER	M	03.06.95	20.05.24	20.05.24	F	ZCA-MPONGWE	Copperbe
16	OO414584	CHRISTOPHER	ZULU	118481/58/1	PRACTICAL INSTRUCTOR	M	13.08.93	21.07.23	21.07.23	G	ZCA-MPONGWE	Copperbe
17	OO435164	CHULONGO	CHANGALA	954797/11/1	ELECTRICIAN	F	09.03.87	02.05.24	02.05.24	F	ZCA-MPONGWE	Copperbe
18	OO415221	MASUSO	NGWIRA	331794/51/1	ELECTRICIAN	M	09.09.86	21.07.23	21.07.23	F	ZCA-MPONGWE	Copperbe
19	OO195369	LAZAROUS	CHILANDO	275663/67/1	COOK	M	66	01.07.94	24.06.24	C	ZCA-MPONGWE	Copperbe
20	OO423128	PAPHILD	MUNACHONGA	318530/73/1	STORES OFFICER	F	21.01.92	18.12.23	18.12.23	H	ZCA-MPONGWE	Copperbe
21	OO412197	CHRISTOPHER	NYAMASAMBO	259817/24/1	FARM WORKER	M	25.10.88	03.02.23	03.02.23	A	ZCA-MPONGWE	Copperbe
22	OO412204	ESTHER	KAPASO	108609/26/1	FARM WORKER	F	21.01.89	03.02.23	03.02.23	A	ZCA-MPONGWE	Copperbe
23	OO412207	GREGORY	MUNKOMBWE	119037/77/1	FARM WORKER	M	15.01.79	03.02.23	03.02.23	A	ZCA-MPONGWE	Copperbe
24	OO412225	PAUL	MUSHIMA	108228/69/1	FARM WORKER	M	31.12.84	03.02.23	03.02.23	A	ZCA-MPONGWE	Copperbe
25	OO277964	PHILIP	KASAMBALA	106035/48/1	OFFICE ORDERLY	M	17.01.76	31.05.16	31.05.16	A	ZCA-MPONGWE	Copperbe
26	OO412617	ENOS	KAFUWA	218194/17/1	FARM WORKER	M	28.09.76	03.02.23	03.02.23	A	ZCA-MPONGWE	Copperbe

Bijlage 2: Drip Irrigation Report



REPUBLIC OF ZAMBIA
MINISTRY OF AGRICULTURE

ZAMBIA COLLEGE OF AGRICULTURE
MPONGWE

REPORT ON THE CONSTRUCTION AND INSTALLATION OF THE DRIP IRRIGATION UNIT

DATE: 20 DECEMBER 2024

REPORT ON THE FUNDING OF

5000 EUROS(K143,000)

REPORT PRESENTED BY: THE PRINCIPAL



1. Preamble

This report is based on the financing that was received in August 2024 to construct an irrigation system at the college. The drip irrigation system will enable Zambia College of Agriculture Mpongwe to produce vegetables and other crops all year round which will be sold in order to generate income.

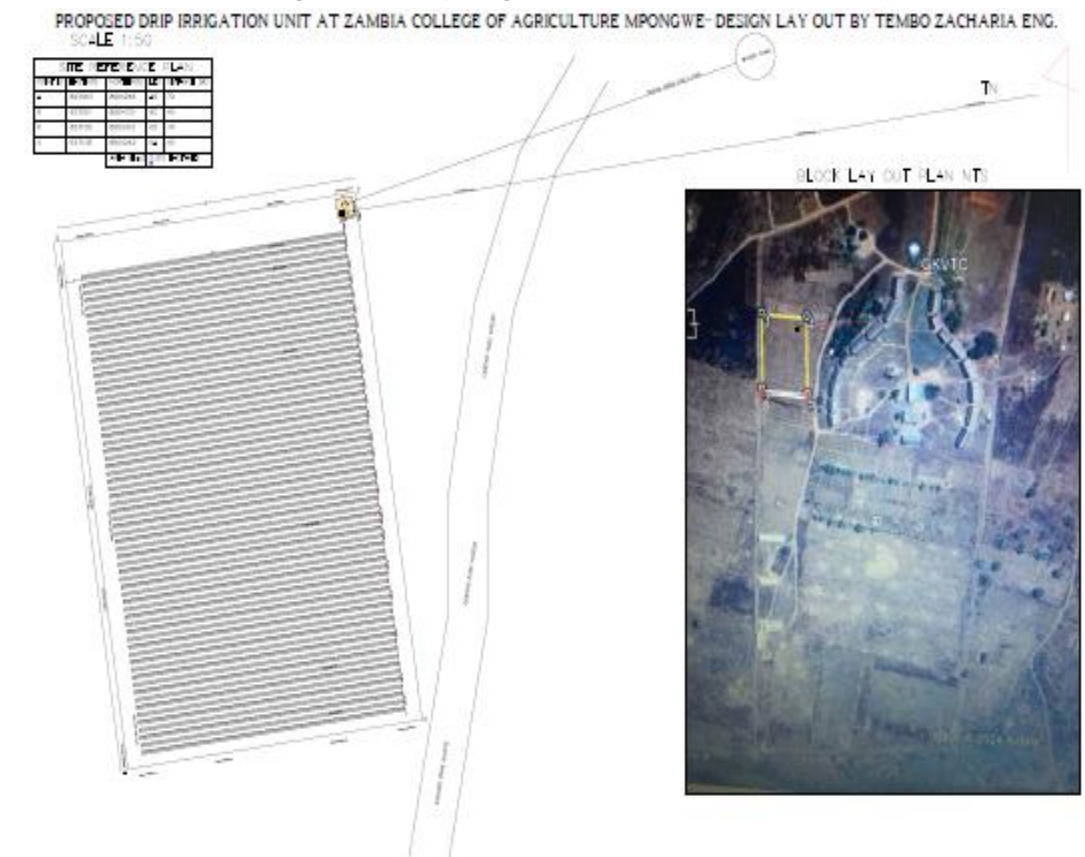
This report covers the period August 2024 to December 2024. The report has reference to the last report submitted which had carry-over activities. The report covers the activities carried out and a financial report for the K 143,000.00 (5000 Euro) funding.

Activities covered in the funding (refer to attached request letter) are:

1. Design of the Drip Irrigation Unit
2. Procurement of Construction Materials for the Drip Irrigation Unit
3. Land preparations for the crop to be planted
4. Construction of the Drip Irrigation Unit
5. Installation of the Drip Irrigation Unit
6. Procurement of plants for the Drip Irrigation Unit.

a. Design of a Drip Irrigation Unit

In order for the proper planning and control of the drip irrigation unit, a layout design was drafted. The Tony Project was projected to be on 1 Hectare's (10,000m²). The Zambia College Of Agriculture drip Irrigation Unit is intended for students training Purpose and Production for sale of the Farm Produce. The design of the Drip Irrigation unit is attached in the report.



Initial design of the drip Irrigation Unit Under the Tony Funding, the design was later adjusted upward in order to increase the production levels and enhance crop diversification and profitability.



Site of the constructed and installed drip Irrigation Unit

i. Water reticulation System

The drip irrigation Unit is divided into three construction segments and the production segment.

The water reticulation is linked with the two boreholes for the Zambia College of Agriculture Mpongwe water Network. The first borehole is the Fish pond borehole and the second borehole is the central borehole. The Water reticulation System is designed in such a way that the two two boreholes are linked.

The design enables the drip irrigation unit to be serviced with water directly from the two well and in an event there is electricity supply to run the pumps. Water stored in the tanks will be used with the help of a booster pump.





ii. Fencing unit

The Drip Irrigation Unit is designed on a 1 Hectare land parcel attached to the main college fencing unit. The fence is designed and constructed using 1.8 meters game fence wire strained and tied with tension wire onto 75mm and 50mm Circular Hollow sections with Y-12 deformed bars welded onto 75mm Circular Hollow Sections and 50mm circular Hollow Sections fastened onto M15 plain concrete in 400mm by 400mm excavated holes the gate for the Drip Irrigation Unit is yet to be installed.



iii. Pumping Unit and Fertigation Unit

The pumping Unit is designed to provide extra pressure to the drip Irrigation Unit in an event there is no power. The Pumping section also provides valuable pressure to the venturi fertilizer injector when fertigation and fertilization of water is required. Therefore, the booster pump was designed after the Drip Irrigation Unit storage tank and the is connected to the venturi fertilizer injector for the purpose of fertigation of the drip irrigation unit. The Pumping and fertigation Unit will be installed once the Load shedding challenges are stabilized within the district.



iv. Production Unit

The production unit involves the growing of viable and profitable Horticultural crops from the Drip Irrigation Unit. The Selected crops at the time include Tomato and Winter Maize to be rotated in spatial arrangement. During the first cycle of production in the drip irrigation Unit, Tomato variety (Trinity) was selected for production and about 15000 seedlings were procured and planted in the drip irrigation Unit.



b. Procurement of construction Materials

As outlined in the design of the drip Irrigation Unit, procurement of materials was in accordance with reliable and available suppliers.

Fencing Materials as outlined in the design were procured from Kasavasa General Dealers within Mpongwe District. Materials that were procured from Kasavasa are, 75mm CHS, 50mm CHs, tie wire and Game fence wire.

Plumbing and water supply materials were procured from NACHEL distributors from Ndola, plumbing and water supply materials included Piping (Poly Pipes), Ball Valves, Non Return Valves, Couplings, Drip liners, Drip valves, end caps, Drip punchers, Hole saw, Venturi injector, tank and reducers.

Electrical accessories and the booster pump were procured Morge Ventures limited from Lusaka

c. Land Preparation

In order for the objective of successfully having fine tilth for proper alignment and growing of crops, the land was ploughed using a tractor Drawn Mouldboard plough and the Dicing was done the tractor was hired by a local farmer that owns farm machinery.

Using available labor force, ridges were made onto which drip liners were to be installed and planting of the proposed crops to be done.

The entire 1 Hectare land was prepared in readiness for planting of various crops.



d. Construction of The Fencing Unit

Through the Department of Engineering and the Maintenance Unit, the drip irrigation unit was mapped and aligned. 400*400*400mm deep holes were dug.

Cutting of Circular poles was done and welding of Y-12 deformed bars to 75mm and 50mm Circular tubes was also done. Poles were placed at intervals of 4meters reinforced with plain concrete (M15) grade. Then the game wire was rolled and tied to poles. The drip irrigation Unit has one main entrance.



e. Installation of the Drip Irrigation Unit

In order to train students on installation of the drip irrigation unit, the college engaged students to assist in excavation works for the piping network, laying of pipes and installation of the drip irrigation system. It is during the practical learning sessions that students were able to install the entire 1 Hectare drip Irrigation Unit through guide from the Department of Agricultural Engineering and the Maintenance Unit.

The Drip Irrigation Unit is segmented in sections to allow irrigation set time for each segment. From the design, it is possible to irrigate only one section with 30 rows and maintain the reaming parts of the drip irrigation unit not irrigated. The idea is to confine pressure to a certain section were water needs are critical. This is however, subjected to the judgment of the person irrigating at a particular moment whether to irrigate the whole field or just some portions. This is because pressure (1 Bar) is critical to ensure effective water supply to the field.



f. Procurement of Plants

Through the Senior Management authority, a viable and profitable crop was chosen to be grown under irrigation in the Drip Irrigation Unit. Tomato Variety Trinity, which is a high breed with high returns on income was selected. In order to control pests and diseases from destroying the field, chemical for spraying were recommended and to be procured.

CONCLUSION

The objective of the drip Irrigation unit will enable capacity development to students through hand on practical lessons during maintenance and operation of the drip irrigation unit as well as providing a sales platform for the college through production of viable and profitable crops that will be grown all year round in the drip irrigation unit.

Attached is a schedule of procurement payments and balances for the pending works which will be completed within the first month of the year 2025.