

**THE COPPERBELT UNIVERSITY**

**AFRICA CENTER OF EXCELLENCE FOR SUSTAINABLE MINING**

**QUARTERLY REPORT FOR THE PERIOD OF JULY TO DECEMBER 2019**

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# 1. INTRODUCTION

Project Objective:

To strengthen selected Eastern and Southern African higher education institutions to deliver quality post- graduate education and build collaborative research capacity in the regional priority areas.

KEY DEVELOPMENT CHALLENGES:

Achieve sustainability in mining in terms of better mining practice, health of communities, and effects on biodiversity

VISION:

To be a national, regional and global source of best practice, knowledge and experience in the field of Sustainable Mining.

MISSION:

To focus on delivering excellence in education, training, and research in five thematic areas identified as strategic to improving the sustainability of the mining industry in Zambia and beyond for years to come.

# 2. Project Details

|  |  |
| --- | --- |
| 1. **Name of Institution** | The Copperbelt University |
| 1. **Name of Africa Centre of Excellence** | Africa Centre of Excellence for Sustainable Mining |
| 1. **Loan** | IDA53080-ZM |
| 1. **Date of Signing of the Financing Agreement** | 11 May 2017 |
| 1. **Date of Signing of the Subsidiary Grant (Performance) Agreement** | 20th July 2017 |
| 1. **Date of Credit Effectiveness** | December 2017 |
| 1. **Period of Reporting** | 01.07.2019 – 31.12.2019 |

# 3. IMPLEMENTATION PROGRESS: DLIs AND DLRs (Aug-Dec 2019)

| **DLI** | **DLR** | **Activities** | **Targets** | | **Achievements** | | | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **%** | **No.** | | **%** |  |
| **DLI #1: Institutional readiness** | **DLR#1.1**: Completion of Effectiveness Conditions | All conditions met for effectiveness fulfilled. |  |  |  | |  | Achieved |
| **DLR#1.2**: Development of the Project Implementation Plan | Detailed Implementation Plan of CBUACESM approved. |  |  |  | |  | Achieved |
| **DLI #2: Excellence in education and research capacity and development impact** | **DLR# 2.1**: Timely annual implementation of the plans | Percentage achievement of targets in any given year | 42 | 100 |  | |  |  |
| **DLR #2.2**: Newly enrolled students in the ACE of which at least 20% must be regional (African) students. | 2.2.1 N**ewly enrolled students into master’s level programmes** | | | | | | |
| 2.2.1.1 Total | 120 | 100 | 36 | |  |  |
| 2.2.1.2 National Male | 29 | 100 | 18 | |  | (Note: The figures are for students from academic office enrolled in 2nd Semester) |
| 2.2.1.3 National Female | 19 | 100 | 14 | |  |  |
| 2.2.1.4 Regional Male | 7 | 100 | 3 | |  |  |
| 2.2.1.5 Regional Female | 5 | 100 | 1 | |  | (I don’t have latest position of Centre scholarship holders after withdrawals) |
| 2.2.2 **Newly enrolled students into Doctoral level programmes** | | | | | | |
| 2.2.2.1Total | 10 | 100 | 26 | |  |  |
| 2.2.2.2 National Male | 4 | 100 | 10 | |  | (Note: No PhD students were recruited by academic office) |
| 2.2.2.3 National Female | 4 | 100 | 6 | |  | (Only PhD students enrolled in 2nd recently will be reported here) |
| 2.2.2.4 Regional Male | 1 | 100 | 7 | |  |  |
| 2.2.2.5 Regional Female | 1 | 100 | 3 | |  |  |
| **2.2.3 Newly enrolled students into Short Courses programmes**  New short courses are in development and some have already been passed by School Boards | | | | | | |
| 2.2.3.1Total | 50 | 100 | 0 | 0 | |  |
| 2.2.3.2 National Male | 18 | 100 | 0 | 0 | |  |
| 2.2.3.3 National Female | 17 | 100 | 0 | 0 | |  |
| 2.2.3.4 Regional Male | 8 | 100 | 0 | 0 | |  |
| 2.2.3.5 Regional Female | 7 | 100 | 0 | 0 | |  |
| **DLR#2.3:** Accreditation of quality of education programs | 2.3.1 Masters level programs Nationally Accredited | 4 | 100 |  |  | |  |
| 2.3.2 Masters level programs Regionally Accredited | 6 | 0 | 4 |  | |  |
| 2.3.3 Masters level programs Internationally Accredited | 0 | 0 |  |  | |  |
| 2.3.4 Doctoral level programmes Nationally Accredited | 4 | 100 | 2 |  | |  |
| 2.3.5 Doctoral level programmes Regionally Accredited |  | 0 |  |  | |  |
| 2.3.6 Doctoral level programmes Internationally Accredited |  | 0 |  |  | |  |
| **DLR#2.4:** Partnerships for collaboration in applied research and training | 2.4.1 MOUs with public institutions/civil society | 4 | 100 | 3 |  | |  |
| 2.4.2 MOUs with private sector/ industry |  | 100 |  |  | |  |
| **DLR#2.5:** Peer-reviewed journal papers or peer-reviewed conference papers prepared collaboratively with regional or international co-authors | 2.5.1 Papers accepted by a peer-reviewed journals with regional author (s) | 65 | 100 |  | 48 | |  |
| 2.5.2 Papers accepted by a peer-reviewed journals with international author (s) |  | 100 |  |  | |  |
| 2.5.3 Accepted peer-reviewed conference papers with regional author (s) |  | 100 |  |  | |  |
| 2.5.4 Accepted peer-reviewed conference papers  with international author (s) |  | 100 |  |  | |  |
| **DLR#2.6:** Faculty and PhD student exchanges to promote regional research and teaching collaborations | 2.6.1 “Periods” (at least 2 weeks) of Faculty Exchanges within country | 9 | 100 | 10 |  | |  |
| 2.6.2 “Periods” of Faculty Exchanges outside country but within region | 1 | 100 | 1 |  | |  |
| 2.6.3 “Periods” of Faculty Exchanges internationally, outside the region |  | 100 |  |  | |  |
| 2.6.4 “Periods” of PhD Student Exchanges within country |  | 100 |  |  | |  |
| 2.6.5 “Periods” of PhD Student Exchanges outside country but within region |  | 100 |  |  | |  |
| 2.6.6 “Periods” of PhD Student Exchanges internationally, outside the region |  | 100 |  |  | |  |
| **DLR#2.7:** External revenue generation | 2.7.1 Amount of externally generated US$ from national sources | 105000 | 100 | 22800 |  | |  |
|  | 2.7.2 Amount of externally generated US$ from regional and international sources |  | 100 |  |  | |  |
| **DLR#2.8:** Institution participating in benchmarking exercise | 2.8.1 Participation in the Partnership of Applied Sciences, Engineering and Technology (PASET) benchmarking exercises | 1 | 100 | 0 | 0 | | No participation in PASET in period under review |
| **DLI** | **DLR** | **Brief Notes** | | | | | | |
| **DLI#3: Timely, transparent and institutionally reviewed Financial Management** | **DLR#3.1:** Timely Withdrawal Applications supported by interim unaudited financial reports | Nothing | | | | | | |
| **DLR#3.2:** Functioning Audit Committee  under University | It exist and functions very well | | | | | | |
| **DLR#3.3:** Functioning internal audit unit for University | Audit committee of Council and had one meeting this quarter | | | | | | |
| **DLR#3.4:** Transparency of financial management (audit reports, interim unaudited financial reports, budgets and Annual Work Programs are all web accessible) | Reports uploaded on website | | | | | | |
| **DLI#4: Timely and audited Procurement** | **DLR# 4.1:** Timely procurement audit report | Not done | | | | | | |
| **DLR#4.2:** Timely and satisfactory procurement progress report | Done, though with some delays | | | | | | |

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# 4. DISCUSSION POINTS

## 4.1 Institutional Readiness

The CBUA-CESM reached effectiveness on 26th October 2017 and the funds amounting to USD1, 1000, 000 were disbursed to the project account at Bank of Zambia. Since then, USD 600,000 was transferred to the Investrust Bank Project account for day to day running of the project in March 2018. A further USD 500,000 was transferred to the Investrust Bank Project account for day to day running of the project in May 2019. Money is withdrawn for activities using the Institutions financial mechanisms.

## 4.2 Timely Annual Implementation of Plans

Target was 56 activities and about 21 have been achieved.

## 4.3 Newly Enrolled Masters Students

Quite a good number of new students have been enrolled for the programmes that fall under the Centre.

## 4.4 Newly Enrolled Doctoral Students

The PhD Program in Sustainable Mining is awaiting Senate approval.

## 4.5 Newly Enrolled Short Courses Students

None yet.

## 4.6 Accredited Masters and PhD Programs

Twelve (12) programmes for Accreditation from the Zambian Higher Education Authority have been submitted and paid and so far almost all except one (1) have been accredited.

## 4.7 MOUs with Partners

MoUs and partnership agreements have been signed with the following institutions:

* British Geological Survey
* Geological Survey of Finland
* University of Zimbabwe
* University of Zambia
* Mopani Copper Mines
* Mintek PLC
* Kajaani University of Applied Sciences (Finland)

And other MoUs nearing completion are with the following institutions:

* Zambia Bureau of Standards (ZABS)
* Mine Safety Department
* Occupational safety and Health Institute
* Kitwe Districts Chambers of Commerce and Industry
* Zambia Chamber Mines
* University of British Colombia
* University of Botswana

**4.9 Paper Publications**

45 peer-reviewed papers were published in this quarter.

## 4.10 Student & Faculty Exchanges

This activity is going very well. There have been more than 10 exchanges during the period under review.

## 4.11 External Revenue Generation

22500 USD was raised through grant proposal writing. The grant is awarded by the multilateral funding instrument administered by the governments of Mozambique, Zambia and South Africa through their research funding authorities (Fundo Nacional de Investigacao, National Science and Technology Council and National Research Foundation respectively).

The Fundraising Committee has target to raise 78,000 USD in YR2 with support from the Centre.

**4.12** Participation in PASET

The Center participated in the PASET Benchmarking and is still waiting for the results.

## 4.13 Challenges and Mitigation Measures

Budgeting is a challenge due to late achievement of effectiveness. This has affected budget planning for Year 2 and Year 3 in order to deliver the project on time. We would like to request IUCEA to make a request to World Bank for the Extension for at least a year.

# APPENDICES

#### CURRENT ANNUAL WORKPLAN 2019

#### RISK REPORTS FROM AUDIT

#### FINANCIAL REPORTS

#### PROCUREMENT AUDIT REPORT

#### PROCUREMENT PROGRESS REPORT

#### PROCUREMENT PLAN 2019

#### ANNUAL WORKPLAN YR 2 2019

#### OTHER PUBLICATIONS