

Consulting Services for Environmental Flows Assessment and Water Quality Modelling within the Lesotho Lowlands Water Development Project Phase II (LLWDP II) Monthly Progress Report, February 2021

Ministry of Water, Lesotho



March 5th, 2021

Prepared by

Multiconsult

Deltares
Enabling Delta Life



Multi - Nodal
Development Consultants

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REPORT

| | | | |
|---------|--|------------------|---|
| PROJECT | Consulting Services for Environmental Flow Assessment (EFA) and Water Quality Modelling within the Lesotho Lowlands Water Development Project Phase II (LLWDP II) | DOCUMENT CODE | 10223685-TVF-MPR-002 |
| SUBJECT | Monthly Progress Report, February 2021 | ACCESSIBILITY | Restricted |
| CLIENT | Ministry of Water, Lesotho | PROJECT MANAGER | Leif Birger Lillehammer |
| CONTACT | Nthame Monare | EDITED BY | Leif Birger Lillehammer |
| | | PREPARED BY | Leif Birger Lillehammer, Filip Patocka |
| | | RESPONSIBLE UNIT | Natural Resources, Multiconsult Norge AS |

SUMMARY

This is the second monthly progress report of the *Consulting Services for Environmental Flow Assessment (EFA) and Water Quality Modelling within the Lesotho Lowlands Water Development Project Phase II (LLWDP II)*. It covers period from week 5 to week 8 in 2021.

At the end of the last reporting period, the Draft Inception Report was delivered to the Client on 5th of February 2021. Since then the Consultants team had an internal workshop for the DRIFT method on February 17th. The Consultant as well observed the Covid-19 situation in Lesotho and South Africa in order to plan for the site works accordingly.

The Consultant was further engaged with purchase of equipment for monitoring, which is partly impacted by Covid-19 by prolonged delivery times.

The Consultant as well progressed on financial matters. An advance payment guarantee in three currencies was issued to the Client. Subsequently an invoice for advance payment in the three currencies as specified by the Contract was issued with payment due in week 9.

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|------|------------|--|------------------------------------|------------------|-------------|
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| | | | | | |
| 00 | 04.03.2021 | Monthly Progress Report, February 2021 | Leif Lillehammer, Filip Patocka | Leif Lillehammer | Gro Dyrnes |
| REV. | DATE | DESCRIPTION | EDITED BY | CHECKED BY | APPROVED BY |

TABLE OF CONTENTS

| | | |
|----|---|---|
| 1 | Overall status | 5 |
| 2 | Main challenges, critical areas and proposal for measures | 5 |
| 3 | Health, Safety and Environment | 5 |
| 4 | Quality | 5 |
| 5 | Risk..... | 5 |
| 6 | Project Activities..... | 5 |
| | 6.1 Internal DRIFT Workshop | 6 |
| | 6.2 Purchase of monitoring equipment..... | 6 |
| 7 | Interfacing..... | 6 |
| 8 | Organisation and manning | 6 |
| 9 | Contract | 6 |
| | 9.1 Economy | 6 |
| | 9.2 Delivery status..... | 6 |
| | 9.3 Milestones | 7 |
| 10 | Disbursements and Invoicing | 7 |

Attachment

Attachment 1 Workplan

Attachment 2 Invoice log

1 Overall status

Status for the last 3 reporting periods:

| | None yet | | Week 1-5, 2021 | | This Period | |
|-----------------|----------|-------|----------------|-------|-------------|-------|
| | Status | Trend | Status | Trend | Status | Trend |
| Financial | | | | | | |
| Time / progress | | | | | | |
| Quality | | | | | | |

Colour codes:

- Green** Status – as planned and under control, high probability of goal achievement
- Yellow** Status – a few challenges, some corrective actions needed for goal achievement
- Red** Status – major challenges, needs corrective actions, low probability of goal achievement

2 Main challenges, critical areas and proposal for measures

The main challenge for time and progress of the project is the Covid-19 pandemic. The Consultant proposed a contingency plan to outline possible strategies for coping with Covid-19 restriction scenarios. The plan is part of the submitted Draft Inception Report.

3 Health, Safety and Environment

Internal procedures for Health, Safety and Environment of the project are in place. They will be further reviewed prior to commencement of site work.

4 Quality

Internal quality plan following ISO 9001:2015 has been set up to control quality on the project and will be continuously reviewed against the work being undertaken to assure satisfactory quality is achieved.

5 Risk

Internal risk procedures connected to project execution, travelling and site work had been reviewed and are in place. Further risk evaluation will be done prior to commencement of site work.

6 Project Activities

The project activities in February has as agreed with MoW been on the low side, awaiting the possibilities for reconnaissance trip and first major field trips. These are now planned for early April and second week of May, respectively, and upon approval by MoW. The Consultant has however had an internal consultant's team workshop on the DRIFT methodology and its tailoring to this study. It was arranged on 17th February, and most of the team members participated. The consultant has also started to procure some of the monitoring equipment (See Section 6.2).

6.1 Internal DRIFT Workshop

The internal DRIFT workshop was a 3 hours event, where Professor Cate Brown guided the team in the DRIFT methodology the first two hours, including its tailoring to the Hlotse EFlow study. This helped the Consultants team to have a uniform and agreed approach to the study and the interfaces between the various topics. The last hour were set aside for discussion on the tailoring of the different topics, and its interaction, in the DRIFT DSS, and the study as a whole.

6.2 Purchase of monitoring equipment

The Consultant was been in contact with the Client's Department of Water Affairs prior to procurement of monitoring equipment in order to confirm its suitability as it will be handed over to the Client at the end of the project.

It was confirmed that the ISY ProDSS equipment is suitable, and the Consultant therefore proceeded with the purchase of the equipment.

Due to Covid-19 it is high likely that the delivery will take longer than expected, and the Consultant is in communication with the provider in order to minimise the delivery time to minimum.

7 Interfacing

The Consultant is in contact with the Client's team through the project manager Leif Birger Lillehammer and his administrative assistant Filip Patocka.

For the reconnaissance trip and first major field trips the Consultant will possibly need an introductory letter from MoW, also in order to be able to cross the border between RSA and Lesotho.

8 Organisation and manning

Full team of Multiconsult, Deltares, Southern Waters and Multi-Nodal relevant to the delivery of the ongoing tasks has been successfully mobilised.

The consultancy team members are outlined in the Preface section of the Draft Inception Report.

9 Contract

As planned and agreed, except the slight change in delivery time of the Draft Inception Report.

9.1 Economy

The Consultant issued three Advance Payment Guarantees, one for each currency as specified in the contract, on 8th February 2021 through Consultant's bank Nordea.

The Consultant consequently issued three invoices, one for each currency, for the Advance Payment. The advance payment represents 20% of the contract amount. The due date is 5th March 2021.

See the Attachment 2 for the Invoice log for details.

9.2 Delivery status

The Draft Inception Report was delivered to the Client on 5th of February 2021.

The list of deliverables is listed overleaf.

| Deliverables | Delivery date - From the commencement of the assignment, after: |
|---|---|
| Kick-Off Meeting | 18 th December 2020 |
| Draft Inception Report | 5 th February 2021 |
| Final Inception and Scoping Report | 5 months |
| Regular Progress Reports | Monthly (11 reports). The first on February 10 th |
| Baseline Monitoring Report | 9 months |
| Monitoring and Modelling Report | 9 months |
| Training Manual | 9 months |
| Water Resources and Water Quality Assessment Report | 11 months |
| Hydraulics Report | 11 months |
| EFlows Assessment Report | 11 months |
| DRIFT DSS and Hlotse Database | 11 months |
| Customised Hlotse DRIFT Manual | 11 months |
| EFMP | 12 months |
| Completion Report | 12 months |

9.3 Milestones

The first achieved milestone was delivery of the Draft Inception Report.

10 Disbursements and Invoicing

There had been no payment made within the reporting period. The first payment will be the Advance Payment due on 5th of March 2021.

Attachment 1 – Workplan

Multiconsult

| | Name of Activity | Start | Finish | Duration | Kv. 1, 2021 | | | Kv. 2, 2021 | | | Kv. 3, 2021 | | | Kv. 4, 2021 | | | Kv. 1, 2022 | | | |
|----|--|------------|------------|-----------|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|--|
| | | | | | jan | feb | mar | apr | mai | jun | jul | aug | sep | okt | nov | des | jan | feb | mar | |
| 1 | <div><div></div>Task 1 - Inception and Mobilisation</div> | 07.01.2021 | 29.04.2021 | 74 dager | | | | | | | | | | | | | | | | |
| 2 | Task 1.1 - Collate and review existing knowledge and data | 07.01.2021 | 22.01.2021 | 12 dager | | | | | | | | | | | | | | | | |
| 3 | Task 1.2 - Preliminary selection of IUAs, EFlows reaches and sites | 11.01.2021 | 15.01.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 4 | Task 1.3 - Needs Assessment | 11.01.2021 | 15.01.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 5 | Task 1.4 - Scenario Development | 18.01.2021 | 22.01.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 6 | Task 1.5 - Preliminary list of indicators | 18.01.2021 | 22.01.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 7 | Draft Inception Report | 05.02.2021 | 05.02.2021 | 0 dager | | | | | | | | | | | | | | | | |
| 8 | Final Inception and Scoping Report | 29.04.2021 | 29.04.2021 | 0 dager | | | | | | | | | | | | | | | | |
| 9 | <div><div></div>Task 2 - Field Data Collection</div> | 06.04.2021 | 02.03.2022 | 213 dager | | | | | | | | | | | | | | | | |
| 10 | Task 2.1 - Reconnaissance | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 11 | <div><div></div>Task 2.2 - Topographical and hydraulics</div> | 06.04.2021 | 30.07.2021 | 66 dager | | | | | | | | | | | | | | | | |
| 12 | Part 1 | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 13 | Part 2 | 03.05.2021 | 07.05.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 14 | Part 3 | 26.07.2021 | 30.07.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 15 | <div><div></div>Task 2.3 - Water quality (monthly sampling WQ and sediments)</div> | 06.04.2021 | 02.03.2022 | 213 dager | | | | | | | | | | | | | | | | |
| 16 | Month 1 | 06.04.2021 | 06.04.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 17 | Month 2 | 03.05.2021 | 03.05.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 18 | Month 3 | 07.06.2021 | 07.06.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 19 | Month 4 | 01.07.2021 | 01.07.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 20 | Month 5 | 02.08.2021 | 02.08.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 21 | Month 6 | 06.09.2021 | 06.09.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 22 | Month 7 | 04.10.2021 | 04.10.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 23 | Month 8 | 01.11.2021 | 01.11.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 24 | Month 9 | 06.12.2021 | 06.12.2021 | 1 dag | | | | | | | | | | | | | | | | |
| 25 | Month 10 | 05.01.2022 | 05.01.2022 | 1 dag | | | | | | | | | | | | | | | | |
| 26 | Month 11 | 02.02.2022 | 02.02.2022 | 1 dag | | | | | | | | | | | | | | | | |
| 27 | Month 12 | 02.03.2022 | 02.03.2022 | 1 dag | | | | | | | | | | | | | | | | |
| 28 | <div><div></div>Task 2.4 - Physical habitats</div> | 06.04.2021 | 30.07.2021 | 66 dager | | | | | | | | | | | | | | | | |
| 29 | Part 1 | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 30 | Part 2 | 26.07.2021 | 30.07.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 31 | <div><div></div>Task 2.5 - Riparian and aquatic flora</div> | 06.04.2021 | 30.07.2021 | 66 dager | | | | | | | | | | | | | | | | |
| 32 | Part 1 | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 33 | Part 2 | 26.07.2021 | 30.07.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 34 | <div><div></div>Task 2.6 - Benthic organisms</div> | 06.04.2021 | 30.07.2021 | 66 dager | | | | | | | | | | | | | | | | |
| 35 | Part 1 | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | | |
| 36 | Part 2 | 26.07.2021 | 30.07.2021 | 5 dager | | | | | | | | | | | | | | | | |

Monthly Progress Report

Attachment 1- Workplan



| | Name of Activity | Start | Finish | Duration | Kv. 1, 2021 | | | Kv. 2, 2021 | | | Kv. 3, 2021 | | | Kv. 4, 2021 | | | Kv. 1, 2022 | | |
|----|---|------------|------------|-----------|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|
| | | | | | jan | feb | mar | apr | mai | jun | jul | aug | sep | okt | nov | des | jan | feb | mar |
| 37 | <input checked="" type="checkbox"/> Task 2.7 - Fish | 06.04.2021 | 30.07.2021 | 66 dager | | | | | | | | | | | | | | | |
| 38 | Part 1 | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | |
| 39 | Part 2 | 26.07.2021 | 30.07.2021 | 5 dager | | | | | | | | | | | | | | | |
| 40 | Task 2.8 – Riparian Fauna – Mammals, Reptile, Amphibian and Birds... | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | |
| 41 | Task 2.9 - Socio-Economic Surveys | 12.04.2021 | 16.04.2021 | 5 dager | | | | | | | | | | | | | | | |
| 42 | <input checked="" type="checkbox"/> Task 3 - Climate and hydrological assessment | 22.02.2021 | 08.11.2021 | 162 dager | | | | | | | | | | | | | | | |
| 43 | <input checked="" type="checkbox"/> Task 3.1 - Climate Change Assessment | 22.02.2021 | 08.10.2021 | 141 dager | | | | | | | | | | | | | | | |
| 44 | Part 1 | 22.02.2021 | 19.03.2021 | 20 dager | | | | | | | | | | | | | | | |
| 45 | Part 2 | 13.09.2021 | 08.10.2021 | 20 dager | | | | | | | | | | | | | | | |
| 46 | <input checked="" type="checkbox"/> Task 3.2 - Hydrological time series assessment | 22.02.2021 | 08.11.2021 | 162 dager | | | | | | | | | | | | | | | |
| 47 | Part 1 | 22.02.2021 | 16.04.2021 | 34 dager | | | | | | | | | | | | | | | |
| 48 | Part 2 | 13.09.2021 | 08.11.2021 | 41 dager | | | | | | | | | | | | | | | |
| 49 | <input checked="" type="checkbox"/> Task 3.3 - Water Resources Assessment | 22.02.2021 | 08.11.2021 | 162 dager | | | | | | | | | | | | | | | |
| 50 | Part 1 | 22.02.2021 | 16.04.2021 | 34 dager | | | | | | | | | | | | | | | |
| 51 | Part 2 | 13.09.2021 | 08.11.2021 | 41 dager | | | | | | | | | | | | | | | |
| 52 | <input checked="" type="checkbox"/> Task 4 - Hydrodynamic and ecohydraulic analyses | 04.10.2021 | 29.10.2021 | 20 dager | | | | | | | | | | | | | | | |
| 53 | Task 4.1 - Hydrodynamic model | 04.10.2021 | 29.10.2021 | 20 dager | | | | | | | | | | | | | | | |
| 54 | Task 4.2 - River hydraulics | 04.10.2021 | 29.10.2021 | 20 dager | | | | | | | | | | | | | | | |
| 55 | Task 4.3 - Eco-hydraulic study | 04.10.2021 | 29.10.2021 | 20 dager | | | | | | | | | | | | | | | |
| 56 | <input checked="" type="checkbox"/> Task 5 - Water quality assessment | 18.01.2021 | 29.10.2021 | 181 dager | | | | | | | | | | | | | | | |
| 57 | Task 5.1 - Construct water quality model | 06.09.2021 | 29.10.2021 | 40 dager | | | | | | | | | | | | | | | |
| 58 | <input checked="" type="checkbox"/> Task 5.2 - Water quality assessment | 18.01.2021 | 29.10.2021 | 181 dager | | | | | | | | | | | | | | | |
| 59 | Part 1 | 18.01.2021 | 26.02.2021 | 30 dager | | | | | | | | | | | | | | | |
| 60 | Part 2 | 06.09.2021 | 29.10.2021 | 40 dager | | | | | | | | | | | | | | | |
| 61 | <input checked="" type="checkbox"/> Task 6 - Environmental Flow assessment | 06.01.2021 | 26.11.2021 | 209 dager | | | | | | | | | | | | | | | |
| 62 | <input checked="" type="checkbox"/> Task 6.1 - Preparation of input time-series | 26.04.2021 | 27.08.2021 | 72 dager | | | | | | | | | | | | | | | |
| 63 | Part 1 | 26.04.2021 | 26.05.2021 | 20 dager | | | | | | | | | | | | | | | |
| 64 | Part 2 | 02.08.2021 | 27.08.2021 | 20 dager | | | | | | | | | | | | | | | |
| 65 | <input checked="" type="checkbox"/> Task 6.2 - Input indicators and linked indicators | 26.04.2021 | 20.08.2021 | 67 dager | | | | | | | | | | | | | | | |
| 66 | Part 1 | 26.04.2021 | 30.04.2021 | 5 dager | | | | | | | | | | | | | | | |
| 67 | Part 2 | 07.06.2021 | 11.06.2021 | 5 dager | | | | | | | | | | | | | | | |
| 68 | Part 3 | 26.07.2021 | 20.08.2021 | 20 dager | | | | | | | | | | | | | | | |
| 69 | Task 6.3 - Set-up of Hlotse DRIFT DSS | 30.08.2021 | 24.09.2021 | 20 dager | | | | | | | | | | | | | | | |
| 70 | Task 6.4 - Construct response curves | 24.09.2021 | 07.10.2021 | 10 dager | | | | | | | | | | | | | | | |
| 71 | Task 6.5 - Predicting ecosystem and social impacts of scenarios | 07.10.2021 | 26.11.2021 | 37 dager | | | | | | | | | | | | | | | |
| 72 | Task 6.6 - Preparation of the EFlows Assessment Report | 06.01.2021 | 06.01.2021 | 1 dag | | | | | | | | | | | | | | | |

Monthly Progress Report

Attachment 1- Workplan



| | Name of Activity | Start | Finish | Duration | Kv. 1, 2021 | | | Kv. 2, 2021 | | | Kv. 3, 2021 | | | Kv. 4, 2021 | | | Kv. 1, 2022 | | | | | |
|-----|---|------------|------------|-----------|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|--|--|--|
| | | | | | jan | feb | mar | apr | mai | jun | jul | aug | sep | okt | nov | des | jan | feb | mar | | | |
| 73 | <input checked="" type="checkbox"/> Task 7 - Development of a monitoring system | 11.01.2021 | 23.12.2021 | 225 dager | | | | | | | | | | | | | | | | | | |
| 74 | <input checked="" type="checkbox"/> Task 7.1 - Assess monitoring systems | 11.01.2021 | 08.10.2021 | 171 dager | | | | | | | | | | | | | | | | | | |
| 75 | Part 1 | 11.01.2021 | 22.01.2021 | 10 dager | | | | | | | | | | | | | | | | | | |
| 76 | Part 2 | 13.09.2021 | 08.10.2021 | 20 dager | | | | | | | | | | | | | | | | | | |
| 77 | Task 7.2 - Design and implement Baseline Monitoring | 25.01.2021 | 10.09.2021 | 141 dager | | | | | | | | | | | | | | | | | | |
| 78 | Task 7.3 - Design and cost implementation of follow-up monitoring | 13.09.2021 | 23.12.2021 | 74 dager | | | | | | | | | | | | | | | | | | |
| 79 | <input checked="" type="checkbox"/> Task 7.4 – Procurement of Monitoring equipment | 06.04.2021 | 08.10.2021 | 116 dager | | | | | | | | | | | | | | | | | | |
| 80 | Part 1 | 06.04.2021 | 19.04.2021 | 10 dager | | | | | | | | | | | | | | | | | | |
| 81 | Part 2 | 13.09.2021 | 08.10.2021 | 20 dager | | | | | | | | | | | | | | | | | | |
| 82 | <input checked="" type="checkbox"/> Task 8 - Environmental Flow Management Plan | 04.10.2021 | 23.12.2021 | 59 dager | | | | | | | | | | | | | | | | | | |
| 83 | Task 8.1 - Liaison with the Client, and agreement of the EFlows | 04.10.2021 | 12.11.2021 | 30 dager | | | | | | | | | | | | | | | | | | |
| 84 | Task 8.2 - Preparation of an EFMP | 12.11.2021 | 23.12.2021 | 30 dager | | | | | | | | | | | | | | | | | | |
| 85 | <input checked="" type="checkbox"/> Task 9 - Capacity Building on EFlows and other study aspects | 06.04.2021 | 17.09.2021 | 101 dager | | | | | | | | | | | | | | | | | | |
| 86 | <input checked="" type="checkbox"/> Task 9.1 - DRIFT Training Courses | 06.04.2021 | 13.08.2021 | 76 dager | | | | | | | | | | | | | | | | | | |
| 87 | Part 1 | 06.04.2021 | 12.04.2021 | 5 dager | | | | | | | | | | | | | | | | | | |
| 88 | Part 2 | 09.08.2021 | 13.08.2021 | 5 dager | | | | | | | | | | | | | | | | | | |
| 89 | Task 9.2 - Water quality and hydraulic modelling course | 06.04.2021 | 19.04.2021 | 10 dager | | | | | | | | | | | | | | | | | | |
| 90 | <input checked="" type="checkbox"/> Task 9.3 - Practical experience with mentors | 06.04.2021 | 10.09.2021 | 96 dager | | | | | | | | | | | | | | | | | | |
| 91 | Part 1 | 06.04.2021 | 19.04.2021 | 10 dager | | | | | | | | | | | | | | | | | | |
| 92 | Part 2 | 10.05.2021 | 02.06.2021 | 15 dager | | | | | | | | | | | | | | | | | | |
| 93 | Part 3 | 26.07.2021 | 06.08.2021 | 10 dager | | | | | | | | | | | | | | | | | | |
| 94 | Part 4 | 23.08.2021 | 10.09.2021 | 15 dager | | | | | | | | | | | | | | | | | | |
| 95 | <input checked="" type="checkbox"/> Task 9.4 - Hands-on learning activity with the procured monitoring... | 19.04.2021 | 17.09.2021 | 92 dager | | | | | | | | | | | | | | | | | | |
| 96 | Part 1 | 19.04.2021 | 23.04.2021 | 5 dager | | | | | | | | | | | | | | | | | | |
| 97 | Part 2 | 13.09.2021 | 17.09.2021 | 5 dager | | | | | | | | | | | | | | | | | | |
| 98 | <input checked="" type="checkbox"/> Deliverables | 06.11.2020 | 23.12.2021 | 263 dager | | | | | | | | | | | | | | | | | | |
| 99 | <input checked="" type="checkbox"/> D 1 Inception Report | 22.01.2021 | 29.04.2021 | 63 dager | | | | | | | | | | | | | | | | | | |
| 100 | Draft Inception Report | 22.01.2021 | 22.01.2021 | 0 dager | | | | | | | | | | | | | | | | | | |
| 101 | Final Inception and Scoping Report | 29.04.2021 | 29.04.2021 | 0 dager | | | | | | | | | | | | | | | | | | |
| 102 | <input checked="" type="checkbox"/> D2 Monthly Reports | 06.11.2020 | 08.10.2021 | 209 dager | | | | | | | | | | | | | | | | | | |
| 103 | Month 1 | 05.02.2021 | 05.02.2021 | 0 dager | | | | | | | | | | | | | | | | | | |
| 104 | Month 2 | 05.03.2021 | 05.03.2021 | 0 dager | | | | | | | | | | | | | | | | | | |
| 105 | Month 3 | 09.04.2021 | 09.04.2021 | 0 dager | | | | | | | | | | | | | | | | | | |
| 106 | Month 4 | 07.05.2021 | 07.05.2021 | 0 dager | | | | | | | | | | | | | | | | | | |
| 107 | Month 5 | 04.06.2021 | 04.06.2021 | 0 dager | | | | | | | | | | | | | | | | | | |
| 108 | Month 6 | 02.07.2021 | 02.07.2021 | 0 dager | | | | | | | | | | | | | | | | | | |

**Consulting Services for Environmental Flow Assessment (EFA)
and Water Quality Modelling within the Lesotho Lowlands
Water Development Project Phase II (LLWDP II)**

multiconsult.no

Monthly Progress Report

Attachment 1- Workplan

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| | Name of Activity | Start | Finish | Duration | Kv. 1, 2021 | | | Kv. 2, 2021 | | | Kv. 3, 2021 | | | Kv. 4, 2021 | | | Kv. 1, 2022 | | |
|-----|--|------------|------------|-----------|-------------|-----|-----|-------------|------------|-----|-------------|-----|------------|-------------|------------|-----|-------------|-----|-----|
| | | | | | jan | feb | mar | apr | mai | jun | jul | aug | sep | okt | nov | des | jan | feb | mar |
| 109 | Month 7 | 06.08.2021 | 06.08.2021 | 0 dager | | | | | | | | ◆ | 06.08.2021 | | | | | | |
| 110 | Month 8 | 03.09.2021 | 03.09.2021 | 0 dager | | | | | | | | ◆ | 03.09.2021 | | | | | | |
| 111 | Month 9 | 08.10.2021 | 08.10.2021 | 0 dager | | | | | | | | | | ◆ | 08.10.2021 | | | | |
| 112 | Month 10 | 06.11.2020 | 06.11.2020 | 1 dag | | | | | | | | | | | | | | | |
| 113 | Month 11 | 04.12.2020 | 04.12.2020 | 1 dag | | | | | | | | | | | | | | | |
| 114 | <input type="checkbox"/> D3 Water Resources and Water Quality Report | 19.11.2021 | 03.12.2021 | 10 dager | | | | | | | | | | | | | | | |
| 115 | Draft | 19.11.2021 | 19.11.2021 | 0 dager | | | | | | | | | | | | ◆ | 19.11.2021 | | |
| 116 | Final | 03.12.2021 | 03.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 03.12.2021 | | |
| 117 | <input type="checkbox"/> D4 Hydraulics Report | 19.11.2021 | 03.12.2021 | 10 dager | | | | | | | | | | | | | | | |
| 118 | Draft | 19.11.2021 | 19.11.2021 | 0 dager | | | | | | | | | | | | ◆ | 19.11.2021 | | |
| 119 | Final | 03.12.2021 | 03.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 03.12.2021 | | |
| 120 | <input type="checkbox"/> D5 Baseline Monitoring Report | 06.09.2021 | 24.09.2021 | 14 dager | | | | | | | | | | | | | | | |
| 121 | Draft | 06.09.2021 | 06.09.2021 | 0 dager | | | | | | | | ◆ | 06.09.2021 | | | | | | |
| 122 | Final | 24.09.2021 | 24.09.2021 | 0 dager | | | | | | | | ◆ | 24.09.2021 | | | | | | |
| 123 | <input type="checkbox"/> D6 Monitoring and Modelling Report | 06.09.2021 | 24.09.2021 | 14 dager | | | | | | | | | | | | | | | |
| 124 | Draft | 06.09.2021 | 06.09.2021 | 0 dager | | | | | | | | ◆ | 06.09.2021 | | | | | | |
| 125 | Final | 24.09.2021 | 24.09.2021 | 0 dager | | | | | | | | ◆ | 24.09.2021 | | | | | | |
| 126 | D7 Training Manual | 24.09.2021 | 24.09.2021 | 0 dager | | | | | | | | ◆ | 24.09.2021 | | | | | | |
| 127 | <input type="checkbox"/> D8 Eflows Assessment Report | 19.11.2021 | 03.12.2021 | 10 dager | | | | | | | | | | | | | | | |
| 128 | Draft | 19.11.2021 | 19.11.2021 | 0 dager | | | | | | | | | | | | ◆ | 19.11.2021 | | |
| 129 | Final | 03.12.2021 | 03.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 03.12.2021 | | |
| 130 | <input type="checkbox"/> D9 EFMP Report | 06.12.2021 | 16.12.2021 | 8 dager | | | | | | | | | | | | | | | |
| 131 | Draft | 06.12.2021 | 06.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 06.12.2021 | | |
| 132 | Final | 16.12.2021 | 16.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 16.12.2021 | | |
| 133 | D10 Completion Report | 23.12.2021 | 23.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 23.12.2021 | | |
| 134 | D11 DRIFT DSS and Hlotse Database | 03.12.2021 | 03.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 03.12.2021 | | |
| 135 | D12 Customized Hlotse Drift Manual | 03.12.2021 | 03.12.2021 | 0 dager | | | | | | | | | | | | ◆ | 03.12.2021 | | |
| 136 | <input type="checkbox"/> D13 Monitoring Equipment | 06.04.2021 | 17.09.2021 | 100 dager | | | | | | | | | | | | | | | |
| 137 | Draft | 06.04.2021 | 06.04.2021 | 0 dager | | | | ◆ | 06.04.2021 | | | | | | | | | | |
| 138 | Final | 17.09.2021 | 17.09.2021 | 0 dager | | | | | | | | | ◆ | 17.09.2021 | | | | | |

**Consulting Services for Environmental Flow Assessment (EFA)
and Water Quality Modelling within the Lesotho Lowlands
Water Development Project Phase II (LLWDP II)**

Monthly Progress Report

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Attachment 2- Invoice log

Attachment 2 – Invoice log

Consulting Services for Environmental Flows Assessment and Water Quality Modelling within the Lesotho Lowlands Water Development Project Phase II (LLWDP II)

NOK Part

| Client | Project No | Invoice No. | Description | Amount | Invoice Date | Due Date | Status | Paid | Received Amount | Outstanding Amount | Comments |
|--|-------------|-------------|---------------------|-----------------------|--------------|------------|--------|------|-----------------|-----------------------|----------|
| Lesotho Lowlands Water Development Project II, Ministry of Water | 10223685-01 | 10552144 | Advance Payment | NOK 200,554.00 | 19.02.2021 | 05.03.2021 | Active | No | NOK 0.00 | NOK 200,554.00 | |
| | | | | | | | | | | | |
| | | | | | | | - | | | | |
| | | | Sum Invoices | NOK 200,554.00 | | | | | - | NOK 200,554.00 | |

Consulting Services for Environmental Flows Assessment and Water Quality Modelling within the Lesotho Lowlands Water Development Project Phase II (LLWDP II)

EUR Part

| Client | Project No | Invoice No. | Description | Amount | Invoice Date | Due Date | Status | Paid | Received Amount | Outstanding Amount | Comments |
|--|-------------|-------------|---------------------|----------------------|--------------|------------|--------|------|-----------------|----------------------|----------|
| Lesotho Lowlands Water Development Project II, Ministry of Water | 10223685-02 | 10552145 | Advance Payment | EUR 20,313.00 | 19.02.2021 | 05.03.2021 | Active | No | EUR 0.00 | EUR 20,313.00 | |
| | | | | | | | | | | | |
| | | | | | | | - | | | | |
| | | | Sum Invoices | EUR 20,313.00 | | | | | - | EUR 20,313.00 | |

Consulting Services for Environmental Flows Assessment and Water Quality Modelling within the Lesotho Lowlands Water Development Project Phase II (LLWDP II)

USD Part

| Client | Project No | Invoice No. | Description | Amount | Invoice Date | Due Date | Status | Paid | Received Amount | Outstanding Amount | Comments |
|--|-------------|-------------|---------------------|----------------------|--------------|------------|--------|------|-----------------|----------------------|----------|
| Lesotho Lowlands Water Development Project II, Ministry of Water | 10223685-03 | 10552146 | Advance Payment | USD 82,218.00 | 19.02.2021 | 05.03.2021 | Active | No | USD 0.00 | USD 82,218.00 | |
| | | | | | | | | | | | |
| | | | | | | | - | | | | |
| | | | Sum Invoices | USD 82,218.00 | | | | | - | USD 82,218.00 | |