UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

SUSTAINABLE DEVELOPMENT GOALS

# Project Implementation Report

(1 July 2021 – 30 June 2022)

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| **Project Title:** | PCB Management and Disposal at the Energy Sector |
| **GEF ID:** | 4782 |
| **UNIDO ID:** | 140157 |
| **GEF Replenishment Cycle:** | *GEF-5* |
| **Country(ies):** | *Lao PDR* |
| **Region:** | *EAP - East Asia and Pacific* |
| **GEF Focal Area:** | *Persistent Organic Pollutants (POPs)* |
| **Integrated Approach Pilot (IAP) Programs[1]:** | *Not applicable* |
| **Stand-alone / Child Project:** | *Not applicable* |
| **Implementing Department/Division:** | Choose an item. |
| **Co-Implementing Agency:** | *Not applicable* |
| **Executing Agency(ies):** | *Department of Environment, MONRE* |
| **Project Type:** | *Full-Sized Project (FSP)* |
| **Project Duration:** | *48 months* |
| **Extension(s):** | *3 times* |
| **GEF Project Financing:** | *1.400.000 USD* |
| **Agency Fee:** | *1.400.000 USD* |
| **Co-financing Amount:** | US$ 5,600,000 |
| **Date of CEO Endorsement/Approval:** | 4/15/2014 |
| **UNIDO Approval Date:** | 8/15/2013 |
| **Actual Implementation Start:** | 5/30/2014 |
| **Cumulative disbursement as of 30 June 2022:** | *1,140,607 USD* |
| **Mid-term Review (MTR) Date:** | Click or tap to enter a date.<br>*IF applicable, insert expected/actual date of MTR submission to the GEF.* |
| **Original Project Completion Date:** | 5/31/2018 |

[1] Only for **GEF-6 projects**, if applicable

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| **Project Completion Date as reported in FY21:** | 12/31/2021 |
| **Current SAP Completion Date:** | 12/31/2022 |
| **Expected Project Completion Date:** | 6/30/2023 |
| **Expected Terminal Evaluation (TE) Date:** | 8/31/2023 |
| **Expected Financial Closure Date:** | 12/31/2024 |
| **UNIDO Project Manager[2]:** | *Carmela Centeno* |

## I. Brief description of project and status overview

| **Project Objective** |
|---|
| The project aims to facilitate the implementation of the Stockholm Convention on POPs in respect of sound management of PCBs and PCB-containing equipment and wastes including development of specific legislations, implementation of environmentally sound management practices, inventory, testing, labelling of at least 1000 electrical equipment and disposal/decontamination of 250 tonnes of PCB-containing equipment and wastes. IT aims to provide a solution for the decontamination of PCB oil, the most abundant PCB-containing material scattered in the EDL electrical network. |

| **Baseline** |
|---|
| Following the ratification of the Convention, the national Government of Lao PDR showed its willingness to meet its obligations under the SC on POPs and has already undertaken several measures to initiate its implementation. As a first step, they requested MONRE to start preparing the recommendations for incorporating the requirements of the SC on POPs in the local environmental legislation. However, knowledge capacity on PCB management, phasing out and disposal is currently not sufficient to ensure the development of policy and legislation, so the PCB activities were given the highest priority and the Government applied through UNIDO to GEF for financing a relevant project for PCB management. It is important to mention that the country, despite the difficult economic situation, has already allocated resources required for the implementation of the SC (which can be seen in their co-financing commitments to the proposed project). The proposed project will facilitate the implementation of SC with respect to PCBs-containing equipment and wastes including the development of specific legislations, the implementation of environmentally sound management practices, inventory, testing and labelling of at least 1,000 suspected electrical equipment, safe storage of PCB-containing equipment and wastes and their safe disposal of at least 250 t of contaminated equipment. |

Please refer to the explanatory note at the end of the document and select corresponding ratings for the current reporting period, i.e. FY22. Please also provide a short justification for the selected ratings for FY22.

In view of the GEF Secretariat's intent to start following the ability of projects to adopt the concept of adaptive management[3], Agencies are expected to closely monitor changes that occur from year to year and demonstrate that they are not simply implementing plans but modifying them in response to developments and circumstances or understanding. In order to facilitate with this assessment, please introduce the ratings as reported in the previous reporting cycle, i.e. FY21, in the last column.

[2] Person responsible for report content

[3] Adaptive management in the context of an intentional approach to decision-making and adjustments in response to new available information, evidence gathered from monitoring, evaluation or research, and experience acquired from implementation, to ensure that the goals of the activity are being reached efficiently

| Overall Ratings[4] | FY22 | FY21 |
|---|---|---|
| Global Environmental Objectives **(GEOs)** / Development Objectives **(DOs)** Rating | *Moderately Satisfactory (MS)* | *Moderately Unsatisfactory (MU)* |
| *For FY 21 reporting period, the project was severely impacted by the COVID-19 pandemic that there was no possibility of the PCB disposal activities to be implemented. For this reporting period, the contractor was provided with a special clearance to enter Lao PDR and conduct preliminary preparations and site visits. However, engagement in another UNIDO project hampered delivery of requisite services for Lao PDR.* | | |
| Implementation Progress **(IP)** Rating | *Moderately Satisfactory (MS)* | *Moderately Unsatisfactory (MU)* |
| *PCB disposal activities have been initiated. National stakeholders are informed and prepared. Issues with the supplier are discussed through several coordination meetings and catch up plans are implemented. Several coordination meetings held with the contractor to ensure efficient implementation of PCB disposal operations.* | | |
| Overall **Risk** Rating | *Moderate Risk (M)* | *High Risk (H)* |
| *The project was impacted by the pandemic in FY 21 reporting and basically, limited activities were implemented. In this reporting period, issues with the supplier are being addressed and catch up plans are implemented.* | | |

## II. Targeted results and progress to-date

Please describe the progress made in achieving the outputs against key performance indicator's targets in the project's **M&E Plan/Log-Frame at the time of CEO Endorsement/Approval**. Please expand the table as needed.

*Please fill in the below table or make a reference to any supporting documents that may be submitted as annexes to this report.*

| Project Strategy | KPIs/Indicators | Baseline | Target level | Progress in FY22 |
|---|---|---|---|---|
| **Component 1 – Policy, legal framework and institutional capacity** | | | | |
| Outcome 1: strengthening of institutional, legislation, policy framework and enforcement of management of PCBs. | | | | |

[4] Please refer to the explanatory note at the end of the document and assure that the indicated ratings correspond to the narrative of the report

| | | | | |
|---|---|---|---|---|
| Output 1.1: Specific policy/legal framework drafted, adjusted and enacted in accordance with the requirements of the SC. | A new set of regulatory instrument and guidance documents with Stockholm Convention requirements on PCBs | | Official guidance documents concerning PCB identification, labelling, handling and disposal officially approved. | Minister Agreement of Management and Monitoring and Disposal for Electrical Transformers was approved.<br><br>Minister approved guideline for PCBs Management and Disposal. |
| Output 1.2: Strategy for enforcement developed and implemented | A practical strategy for implementing the new regulation is elaborated and agreed with stakeholders | | Enforcement strategy, made of clear assignment of role and responsibilities, incentives and penalties was approved. | Specific regulation on chemical list, No. 0389/DoI.MoIC, date 3 April 2018 , added PCBs in Hazardous chemical type I under the Chemicals Management Law. |
| Output 1.3 Technical and human capacities for management of PCBs strengthened. | A PCB Training Center established with the support of MONRE and EDL | | Establishment of a Training Centre at the EDL premises.<br><br>Establishment of curricula at Universities. | PCBs training center within the EDL headquarter established.<br><br>Faculty of Chemistry, National University of Laos approved curriculum on POPs management especially PCBs apply to Bachelor degree. |
| **Component 2 – Technology transfer for sound management of PCBs in energy sector.** | | | | |
| Outcome 2: Application of BATs in all stages of PCB waste management and disposal. | | | | |
| Output 2.1: Detailed inventory and labelling of at least 1000 transformers undertaken. | Availability of a PCB inventory including sample and monitoring data concerning at least 1000 transformers | | One laboratory is upgraded with equipment for carrying out PCB analysis using an international standard method and accredited.<br>Standard Operating Procedures (SOP) for identifying, labeling, tracking, screening and laboratory analysis of PCBs is applied.<br>At least 10 operators trained on the implementation of such SOP, in the course of desk and field lessons.<br>Inventory teams established throughout the country and an inventory coordination unit established.<br>Inventory including sampling and analysis of 1000 transformers carried out. | The laboratory of the Natural Resources and Environment Institute was equipped with field screening equipment for PCB analysis.<br><br>SOP for identifying, labelling, tracking and analysis drafted and adopted.<br><br>Inventory teams within the Ministry and EDL established and trained on the SOP.<br><br>Around 800 transformers belong to the EDL network inventoried. 140 samples were found to contain high concentration of PCBs with a total volume of 93,000 L of oil. |
| Output 2.2: PCB phase-out plan developed and implemented | Availability of a PCB Management plan drafted and agreed by relevant stakeholders | | Database of PCBs contaminated equipment containing serial numbers, positioning and all the other relevant data for identifying and managing the PCB equipment created. | Database established and being managed by the Pollution Control and Monitoring Department website (www.monre.gov.la) |

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| | | | A PCB management plan for the project, based on inventory outcome and priority considerations, which can be used as a model for the country PCB management plan, approved and agreed among relevant stakeholders. | |
| Output 2.3 Technical options selected for the safe disposal of 250 tonnes of PCBs containing equipment and wastes. | A technical and economic analysis of available PCB treatment technologies based on the specific situation of Lao PDR. | | A set of technologies for the disposal / treatment of low contaminated PCB equipment, metal carcasses and porous material is identified and their relevant parameters (both concerning disposal capacity requirements, reliability and environmental performance) identified and quantified | The technology of the installation is based on chemical dichlorination of PCB and the reaction with metallic sodium, a technology fully checked and most widely used internationally.<br><br>The reaction of PCB compounds with metallic sodium is accelerated by using micronized metallic sodium. By using a technique of reaction under vacuum the reaction temperatures are lowered to 130°C and the resulting hydrogen is eliminated continuously with no accumulations.<br><br>The technology much be achievement after treated oil parameters:<br>• PCB final concentration: <5ppm<br>• Water content: <5ppm<br>• Impurity size: 1um<br>• Breaking strength: >175kV |
| Output 2.4 Operation of a decontamination BAT sustained after the termination of the project | A system for the packaging, temporary storage and transportation of PCBs equipment and PCBs waste, including both procedures and infrastructures ensuring capacity beyond project objectives, is established.<br>Suitable disposal technology for the ESM disposal of PCBs equipment/waste tested and permitted, for an overall disposal capacity suitable to satisfy or exceed project need (250 tons of PCBs).<br>Amount of PCBs equipment and waste successfully disposed. | | Guidance procedures for the packaging, temporary storage, transportation and disposal of PCBs in Lao PDR put in place and verified.<br>At least one temporary storage facility established or upgraded for the storage, packaging and transportation of PCBs<br>One suitable disposal or treatment facility, compliant with the SC BAT/BEP criteria, for a capacity suitable to fulfill or exceed project needs, established, tested and permitted.<br>At least 250 tons of PCBs equipment or waste treated or disposed by means of such facility | - The safe permanent storage facilities was prepared both indoor and outdoor for transformer and PCB treatment units.<br>- 20.000 litters of electric isolating oil was arrived to Laos.<br>- Field support was provide by EDL such as power supply, lighting arrester 22 kv 20 KVA, dropout fuse 22 kv, Fuse link 22 kv, earth resistance meter, insulation tester and others |
| **Component 3 – Public awareness raising, education, dissemination of project results.** | | | | |
| Outcome 1: Outcome 3: Increased public awareness on issues concerning PCBs impact on health and environment, and reduced number of accidents of unintentionally contacts of people with PCB-contaminated materials. | | | | |
| Output 3.1: Assessment of health and environmental impact issues, including management of public and occupational safety issues. | Existing studies and researches conducted in Lao PDR on the health aspects related to PCBs reviewed with the purpose to | | Risk Management Measures including the proper use of PPE for operators carrying out sampling, maintenance, dismantling of | Report on the impacts of PCBs on health and environment in Laos.<br><br>SOP on PCB handling and disseminated. |

| | | | | |
|---|---|---|---|---|
| | identify quality criteria at workplace and for the environment. | | transformers drafted and disseminated. Quality criteria for PCB contaminated soil established. | |
| Output 3.2: Stakeholder engagement including NGOs and civil society established | Number of stakeholders targeted and participating in raising awareness initiatives. | | At least 1 university, one NGO, 2 public institutions, one waste management companies identified and participating in raising awareness initiatives. | PSC members include the National University of Laos, Lao Women's, two public institutions, among relevant ministries and stakeholders. |
| Output 3.3 Training and educational material developed. | Awareness raising material. | | Awareness raising material specifically developed for: Universities Operators of PCBs owners (i.e. utilities, large factories), public institutions and NGOs. | Awareness raising brochures, poster developed and disseminated. |
| Output 3.4 Awareness raising programmes implemented. | Number of awareness raising events held. Outcome of questionnaire surveys. | | At least 2 awareness raising workshops and 2 training courses carried out. | 2 Awareness raising workshop undertaken and 2 training for EDL staff conducted. |
| **Component 4. Impact monitoring and evaluation.** | | | | |
| Outcome 4: Assessment of the impact of project activities. | | | | |
| Output 4.1 Impact indicator designed and applied. | Use of indicators for the evaluation of the results of the project implementation | | | 5 PSC meetings and project review conducted. |
| Output 4.2 Project implementation and impacts evaluated. | | | | Midterm Review undertaken. |

## III. Project Risk Management

**1.** Please indicate the overall project-level risks and the related risk management measures: (i) as identified in the CEO Endorsement document, and (ii) progress to-date. Please expand the table as needed or provide as an attachment.

See attachment.

**2.** If the project received a sub-optimal risk rating (H, S) in the previous reporting period, please state the actions taken since then to mitigate the relevant risks and improve the related risk rating. Please also elaborate on reasons that may have impeded any of the sub-optimal risk ratings from improving in the current reporting cycle; please indicate actions planned for the next reporting cycle to remediate this.

*Several Coordination meetings between UNIDO Procurement and IPM Division, the supplier and the Ministry of Natural Resources and Environment were conducted to mitigate the delays of the PCB disposal activities in the country.*

**3.** Please indicate any implication of the **COVID-19** pandemic on the progress of the project.

The pandemic has severely impacted the delivery of the service contract on PCB disposal awarded in February 2020. Lao PDR announced a lockdown in March 2020 and travel restrictions are put in place.

Similarly, the pandemic has brought about higher cost of logistics and operations and has severely restricted internal movement of project staff and those of the counterparts.

**4.** Please clarify if the project is facing delays and is expected to request an **extension**.

The technology provided in another project which further delayed the possible services to be delivered for PCB disposal.

Based on the above, in case PCB treatment service would not be completed by December 2022. Therefore, a project extension, needed for a minimum of 6 months (including a terminal evaluation), is envisaged.

**5.** Please provide the **main findings and recommendations of completed MTR**, and elaborate on any actions taken towards the recommendations included in the report.

*NA*

## IV. Environmental and Social Safeguards (ESS)

**1.** As part of the requirements for **projects from GEF-6 onwards**, and based on the screening as per the UNIDO Environmental and Social Safeguards Policies and Procedures (ESSPP), which category is the project?

☐ Category A project

☐ Category B project

☐ Category C project

(By selecting Category C, I confirm that the E&S risks of the project have not escalated to Category A or B).

Please expand the table as needed.

| | E&S risk | Mitigation measures undertaken during the reporting period | Monitoring methods and procedures used in the reporting period |
|---|---|---|---|
| **(i)** Risks identified in ESMP at time of CEO Endorsement | n/a | n/a | n/a |
| **(ii)** New risks identified during project implementation (if not applicable, please insert 'NA' in each box) | n/a | n/a | n/a |

## V. Stakeholder Engagement

**1.** Using the previous reporting period as a basis, please provide information on **progress, challenges and outcomes** regarding engagement of stakeholders in the project (based on the Stakeholder Engagement Plan or equivalent document submitted at CEO Endorsement/Approval).

A major challenge being faced by the project is the engagement of the technology provider in another project that inhibits their delivery of services for the Lao PCB project. Several coordination meetings have been held to facilitate/expedite the service delivery of PCB disposal. There is also no possibility of engaging a local contractor in Lao PDR.

Another major challenge in the implementation of the project is the commitment of EDL, the main PCB owner, due to changes in management. Several discussions have to be made to secure and re-engage EDL to support the allocation of financial and human resources for PCB disposal.

**2.** Please provide any feedback submitted by national counterparts, GEF OFP, co-financiers, and other partners/stakeholders of the project (e.g. private sector, CSOs, NGOs, etc.).

Electric Du Lao urges the project team to accelerate PCB dechlorination service delivery and ensure PCB treatment service will be initiated as soon as possible.

**3.** Please provide any **relevant stakeholder consultation** documents.

*Please list here the documents which will be submitted in addition to the report, e.g.:*

- *4782_SETCAR Updated Workplan Laos*
- *4782_UNIDO Procurement Letter to SETCAR*

## VI. Gender Mainstreaming

**1.** Using the previous reporting period as a basis, please report on the **progress** achieved **on implementing gender-responsive measures** and **using gender-sensitive indicators,** as documented at CEO Endorsement/Approval (in the project results framework, gender action plan or equivalent),.

While gender mainstreaming is not a requisite for GEF-5 projects, the project endeavours to collect sex-disaggregated data for relevant activities including workshops and trainings. A women association is also part of the PSC and recruitment of women expert is highly encourage

## VII. Knowledge Management

**1.** Using the previous reporting period as a basis, please elaborate on any **knowledge management activities / products**, as documented at CEO Endorsement / Approval.

Knowledge Management, although not part of GEF-5 projects, has been made an important tool in the monitoring of project outputs. Project-related reports are kept in the PMU and shared to stakeholders as necessary.

**2.** Please list any **relevant knowledge management mechanisms / tools** that the project has generated.

*Not applicable for this reporting period.*

## VIII. Implementation progress

**1.** Using the previous reporting period as a basis, please provide information on **progress, challenges and outcomes achieved/observed** with regards to project implementation.

Most "soft" activities have been completed and only those related to the disposal activity need to be carried out.

The project has been impacted by organizational changes within the Ministry of Natural Resources and the Environment and Electric Du Lao. The COVID-19 pandemic has also resulted to months of delay.

On PCB disposal, there is still waiting PCBs treatment facilities shipment by SETCAR, the PCBs disposal company contracted to provide the services. The pandemic has severely impacted the delivery of the service contract on PCB disposal awarded in February 2020. Lao PDR announced a lockdown in March 2020 and travel restrictions are put in place. Similarly, the pandemic has brought about higher cost of logistics and operations and has severely restricted internal movement of project staff and those of the counterparts

For this reporting period, the main issue is the engagement of the technology provided in another UNIDO project which further delayed the possible services to be delivered for PCB disposal in Lao PDR. Despite several coordination meetings and requests from both UNIDO and MoNRE, the contractor failed to provide additional manpower to perform both contracts simultaneously citing the special technical expertise required to run the disposal operations

Based on the above, a project extension for a minimum of 6 months is envisaged.

**2.** Please briefly elaborate on any **minor amendments**[5] to the approved project that may have been introduced during the implementation period or indicate as not applicable (NA).

Please tick each category for which a change has occurred and provide a description of the change in the related textbox. You may attach supporting documentation, as appropriate.

| | | |
|---|---|---|
| ☐ | Results Framework | N/A |
| ☐ | Components and Cost | N/A |
| ☐ | Institutional and Implementation Arrangements | N/A |
| ☐ | Financial Management | N/A |
| ☐ | Implementation Schedule | Extension until 31 December 2022 was requested. Another 6 months extension to complete the PCB disposal activities, final evaluation and final workshop is envisaged. |
| ☐ | Executing Entity | N/A |
| ☐ | Executing Entity Category | N/A |
| ☐ | Minor Project Objective Change | N/A |
| ☐ | Safeguards | N/A |
| ☐ | Risk Analysis | N/A |
| ☐ | Increase of GEF Project Financing Up to 5% | N/A |
| ☐ | Co-Financing | N/A |
| ☐ | Location of Project Activities | N/A |

[5] As described in Annex 9 of the *GEF Project and Program Cycle Policy Guidelines*, **minor amendments** are changes to the project design or implementation that do not have significant impact on the project objectives or scope, or an increase of the GEF project financing up to 5%.

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|---|---|---|
| ☐ | Others | |

**3.** Please provide progress related to the **financial implementation** of the project.

As of June 30,2022, the project recorded an 82% fund disbursement of USD 1, 140, 607.52 including obligations. The main expenditure is on Component 2 which is on PCB disposal with a total expenditure of US$ 763,977.

## IX. Work Plan and Budget

1. Please provide **an updated project work plan and budget** for the remaining duration of the project, as per last approved project extension. Please expand/modify the table as needed.

*Please fill in the below table or make a reference to a file, in case it is submitted as an annex to the report.*

| **Outputs by Project Component** | 2022 | | | | 2023 | | | | | | | | GEF Grant Budget Available (US$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| **Component 1 – Policy, legal framework and institutional capacity** | | | | | | | | | | | | | |
| Outcome 1: Strengthening of institutional, legislation, policy framework and enforcement for management of PCBs. | | | | | | | | | | | | | |
| Output 1.1: Specific policy/legal framework drafted, adjusted and enacted in accordance with the requirements of the SC. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Output 1.2: Strategy for enforcement developed and implemented | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Output 1.3: Technical and human capacities for management of PCBs strengthened. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| **Component 2 – Technology transfer for sound management of PCBs in energy sector.** | | | | | | | | | | | | | |
| Outcome 2: Application of BATs in all stages of PCB waste management and disposal. | | | | | | | | | | | | | |
| Output 2.1 Detailed inventory and labelling of at least 1000 transformers have been done | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Output 2.2: PCB phase-out plan developed and implemented | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Output 2.3 Technical options selected for the safe disposal of 250 tones of PCBs containing equipment and wastes | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Output 2.4 Operation of a decontamination BAT sustained after the termination of the project. | ☐ | ☐ | ☒ | ☒ | ☒ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | 223,145.93 |
| **Component 3- Public awareness raising, education, dissemination of project results.** | | | | | | | | | | | | | |
| Outcome 3: increased public awareness on issues concerning PCBs impact on health and environment, and reduced number of accidents of unintentionally contacts of people with PCB-contaminated materials. | | | | | | | | | | | | | |
| Output 3.1: Assessment of health and environmental | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |

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| impact issues, including management of public and occupational safety issues. | | | | | | | | | | | | | |
| Output 3.2: Stakeholder engagement including NGOs and civil society established. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Output 3.3 Training and educational material developed | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| Output 3.4 Awareness raising programmes implemented | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| **4. Impact monitoring and evaluation.** | | | | | | | | | | | | | |
| **Assessment of the impact of project activities.** | | | | | | | | | | | | | |
| Output 4.1 Project implementation and impacts evaluated. | ☐ | ☐ | ☐ | ☐ | ☒ | ☒ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | 36,262.23 |

**PROJECT DELIVERY REPORT**

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|---|---|---|---|---|---|---|---|
| | | **Project:** | 140157 - PCB MANAGEMENT AND DISPOSAL AT THE ENERGY SECTOR | **Project Manager:** | Carmela Centeno | **Project Validity:**<br>**Status:** | 02.06.2014 - 31.12.2022<br>Implement |
| **Reporting Period:** | **30.01.2014 - 30.06.2022** | **Project Theme:** | Energy and Environment | **Country:** | Lao PDR | **Region** | Asia and Pacific |

| Sponsor Nr. | Sponsor | Grant | Grant Description | Fund | Currency | Grant Status | Grant Validity |
|---|---|---|---|---|---|---|---|
| 400150 | GEF - Global Environment Facility | 2000002714 | LAO PCBS MANAGEMENT | GF | USD | Authority to implement | 30.05.2014 - 31.12.2022 |

| | | Current Year | | | | Cumulative to Date | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Description | Released Budget Current Year (a) | Obligations Current Year (b) | Disbursements Current Year (c) | Expenditures Current Year (d=b+c) | Total Agreement Budget (e) | Released Budget (f) | Obligations + Disbursements (g) | Funds Available* (h=f-g) | Support Cost (i) | Total Expenditures (j=g+i) |
| **2000002714** | **Status: Authority to implement** | | | | | | | | | | |
| **140157-1-01-01** | **1.1 Specific policy/legal framework** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** |
| 1100 | Staff & Intern Consultants | 0.00 | 0.00 | 0.00 | 0.00 | 8,535.82 | 8,535.82 | 8,535.82 | 0.00 | 0.00 | 8,535.82 |
| 1500 | Local travel | 0.00 | 0.00 | 0.00 | 0.00 | 6,574.88 | 6,574.88 | 6,574.88 | 0.00 | 0.00 | 6,574.88 |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 9,180.25 | 9,180.25 | 9,180.25 | 0.00 | 0.00 | 9,180.25 |
| 3000 | Train/Fellowship/Study | 0.00 | 0.00 | 0.00 | 0.00 | 5,058.40 | 5,058.40 | 5,058.40 | 0.00 | 0.00 | 5,058.40 |
| 3500 | International Meetings | 0.00 | 0.00 | 0.00 | 0.00 | 1,024.43 | 1,024.43 | 1,024.43 | 0.00 | 0.00 | 1,024.43 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | 611.49 | 611.49 | 611.49 | 0.00 | 0.00 | 611.49 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3,098.51 | 3,098.51 |
| **140157-1-01-01** | **Total** | **0.00** | **0.00** | **0.00** | **0.00** | **30,985.27** | **30,985.27** | **30,985.27** | **0.00** | **3,098.51** | **34,083.78** |
| **140157-1-01-02** | **1.2 Strategy for enforcement developed** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 14,033.47 | 14,033.47 | 14,033.47 | 0.00 | 0.00 | 14,033.47 |
| 4500 | Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 2,038.30 | 2,038.30 | 2,038.30 | 0.00 | 0.00 | 2,038.30 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | 1,847.07 | 1,847.07 | 1,847.07 | 0.00 | 0.00 | 1,847.07 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,791.88 | 1,791.88 |
| **140157-1-01-02** | **Total** | **0.00** | **0.00** | **0.00** | **0.00** | **17,918.84** | **17,918.84** | **17,918.84** | **0.00** | **1,791.88** | **19,710.72** |
| **140157-1-01-03** | **1.3 Technical and human capacities** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 38,183.44 | 38,183.44 | 38,183.44 | 0.00 | 0.00 | 38,183.44 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | 2,298.10 | 2,298.10 | 2,298.10 | 0.00 | 0.00 | 2,298.10 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4,048.16 | 4,048.16 |
| **140157-1-01-03** | **Total** | **0.00** | **0.00** | **0.00** | **0.00** | **40,481.54** | **40,481.54** | **40,481.54** | **0.00** | **4,048.16** | **44,529.70** |

*** Does not include Unapproved Obligations**

Report Prepared on: 05.07.2022

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# PROJECT DELIVERY REPORT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Project: | 140157 - PCB MANAGEMENT AND DISPOSAL AT THE ENERGY SECTOR | Project Manager: | Carmela Centeno | Project Validity: Status: | 02.06.2014 - 31.12.2022 Implement |
| Reporting Period: | 30.01.2014 - 30.06.2022 | Project Theme: | Energy and Environment | Country: | Lao PDR | Region | Asia and Pacific |

| Sponsor Nr. | Sponsor | Grant | Grant Description | Fund | Currency | Grant Status | Grant Validity |
|---|---|---|---|---|---|---|---|
| 400150 | GEF - Global Environment Facility | 2000002714 | LAO PCBS MANAGEMENT | GF | USD | Authority to implement | 30.05.2014 - 31.12.2022 |

| | | Current Year | | | | Cumulative to Date | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Description | Released Budget Current Year (a) | Obligations Current Year (b) | Disbursements Current Year (c) | Expenditures Current Year (d=b+c) | Total Agreement Budget (e) | Released Budget (f) | Obligations + Disbursements (g) | Funds Available* (h=f-g) | Support Cost (i) | Total Expenditures (j=g+i) |
| 140157-1-02-01 | 2.1 Detailed inventory and labelling | USD | USD | USD | USD | USD | USD | USD | USD | USD | USD |
| 1700 | Nat.Consult./Staff | 0.00 | 0.00 | 0.00 | 0.00 | 39,366.03 | 39,366.03 | 39,366.03 | 0.00 | 0.00 | 39,366.03 |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 64,633.40 | 64,633.40 | 64,633.40 | 0.00 | 0.00 | 64,633.40 |
| 4500 | Equipment | (7.89) | 0.00 | 0.00 | 0.00 | 29,059.73 | 29,059.73 | 29,067.62 | (7.89) | 0.00 | 29,067.62 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | (986.95) | (986.95) | (986.95) | 0.00 | 0.00 | (986.95) |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13,208.09 | 13,208.09 |
| **140157-1-02-01** | **Total** | **(7.89)** | **0.00** | **0.00** | **0.00** | **132,072.21** | **132,072.21** | **132,080.10** | **(7.89)** | **13,208.09** | **145,288.19** |
| 140157-1-02-02 | 2.2 PCB phase-out plan developed | USD | USD | USD | USD | USD | USD | USD | USD | USD | USD |
| 1100 | Staff & Intern Consultants | 0.00 | 0.00 | 0.00 | 0.00 | 6,542.33 | 6,542.33 | 6,542.33 | 0.00 | 0.00 | 6,542.33 |
| 1500 | Local travel | 0.00 | 0.00 | 0.00 | 0.00 | 18,919.61 | 18,919.61 | 18,919.61 | 0.00 | 0.00 | 18,919.61 |
| 1600 | Staff Travel | 0.00 | 0.00 | 0.00 | 0.00 | 85.24 | 85.24 | 85.24 | 0.00 | 0.00 | 85.24 |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 47,843.43 | 47,843.43 | 47,843.43 | 0.00 | 0.00 | 47,843.43 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | 12.98 | 12.98 | 12.98 | 0.00 | 0.00 | 12.98 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7,340.39 | 7,340.39 |
| **140157-1-02-02** | **Total** | **0.00** | **0.00** | **0.00** | **0.00** | **73,403.59** | **73,403.59** | **73,403.59** | **0.00** | **7,340.39** | **80,743.98** |
| 140157-1-02-03 | 2.3 Technical options selected | USD | USD | USD | USD | USD | USD | USD | USD | USD | USD |
| 1100 | Staff & Intern Consultants | 0.00 | 0.00 | 0.00 | 0.00 | 15,240.84 | 15,240.84 | 15,240.84 | 0.00 | 0.00 | 15,240.84 |
| 1500 | Local travel | 0.00 | 0.00 | 0.00 | 0.00 | 6,962.42 | 6,962.42 | 6,962.42 | 0.00 | 0.00 | 6,962.42 |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 2,918.00 | 2,918.00 | 2,918.00 | 0.00 | 0.00 | 2,918.00 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | 131.03 | 131.03 | 131.03 | 0.00 | 0.00 | 131.03 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2,525.24 | 2,525.24 |
| **140157-1-02-03** | **Total** | **0.00** | **0.00** | **0.00** | **0.00** | **25,252.29** | **25,252.29** | **25,252.29** | **0.00** | **2,525.24** | **27,777.53** |

*** Does not include Unapproved Obligations**



# PROJECT DELIVERY REPORT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Project: | 140157 - PCB MANAGEMENT AND DISPOSAL AT THE ENERGY SECTOR | Project Manager: | Carmela Centeno | Project Validity: Status: | 02.06.2014 - 31.12.2022 Implement |
| Reporting Period: | 30.01.2014 - 30.06.2022 | Project Theme: | Energy and Environment | Country: | Lao PDR | Region | Asia and Pacific |

| Sponsor Nr. | Sponsor | Grant | Grant Description | Fund | Currency | Grant Status | Grant Validity |
|---|---|---|---|---|---|---|---|
| 400150 | GEF - Global Environment Facility | 2000002714 | LAO PCBS MANAGEMENT | GF | USD | Authority to implement | 30.05.2014 - 31.12.2022 |

| | | Current Year | | | | Cumulative to Date | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Description | Released Budget Current Year (a) | Obligations Current Year (b) | Disbursements Current Year (c) | Expenditures Current Year (d=b+c) | Total Agreement Budget (e) | Released Budget (f) | Obligations + Disbursements (g) | Funds Available* (h=f-g) | Support Cost (i) | Total Expenditures (j=g+i) |
| 140157-1-02-04 | 2.4 Operation of a decontamination BAT | USD | USD | USD | USD | USD | USD | USD | USD | USD | USD |
| 1100 | Staff & Intern Consultants | 0.00 | 0.00 | 0.00 | 0.00 | 31,297.04 | 31,297.04 | 31,297.04 | 0.00 | 0.00 | 31,297.04 |
| 1700 | Nat.Consult./Staff | 19,138.86 | 9,389.30 | 18,508.14 | 27,897.44 | 82,907.93 | 82,907.93 | 91,666.51 | (8,758.58) | 0.00 | 91,666.51 |
| 2100 | Contractual Services | 218,612.07 | 3,890.00 | 0.00 | 3,890.00 | 752,278.51 | 752,278.51 | 537,556.44 | 214,722.07 | 0.00 | 537,556.44 |
| 3000 | Train/Fellowship/Study | 0.00 | 543.75 | 0.00 | 543.75 | 0.00 | 0.00 | 543.75 | (543.75) | 0.00 | 543.75 |
| 5100 | Other Direct Costs | 19,358.12 | 0.00 | 1,631.93 | 1,631.93 | 21,983.36 | 21,983.36 | 4,257.17 | 17,726.19 | 0.00 | 4,257.17 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 66,532.07 | 66,532.07 |
| **140157-1-02-04** | **Total** | **257,109.05** | **13,823.05** | **20,140.07** | **33,963.12** | **888,466.84** | **888,466.84** | **665,320.91** | **223,145.93** | **66,532.07** | **731,852.98** |
| 140157-1-03-01 | 3.1 Health and environmental impact | USD | USD | USD | USD | USD | USD | USD | USD | USD | USD |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 28,753.45 | 28,753.45 | 28,753.45 | 0.00 | 0.00 | 28,753.45 |
| 4300 | Premises | 0.00 | 0.00 | 0.00 | 0.00 | 25.81 | 25.81 | 25.81 | 0.00 | 0.00 | 25.81 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | 5,645.10 | 5,645.10 | 5,645.10 | 0.00 | 0.00 | 5,645.10 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3,442.43 | 3,442.43 |
| **140157-1-03-01** | **Total** | **0.00** | **0.00** | **0.00** | **0.00** | **34,424.36** | **34,424.36** | **34,424.36** | **0.00** | **3,442.43** | **37,866.79** |
| 140157-1-03-02 | 3.2 Stakeholder engagement | USD | USD | USD | USD | USD | USD | USD | USD | USD | USD |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 23,920.03 | 23,920.03 | 23,920.03 | 0.00 | 0.00 | 23,920.03 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2,392.00 | 2,392.00 |
| **140157-1-03-02** | **Total** | **0.00** | **0.00** | **0.00** | **0.00** | **23,920.03** | **23,920.03** | **23,920.03** | **0.00** | **2,392.00** | **26,312.03** |
| 140157-1-51-01 | Project management | USD | USD | USD | USD | USD | USD | USD | USD | USD | USD |
| 1100 | Staff & Intern Consultants | 0.00 | 0.00 | 0.00 | 0.00 | 81.30 | 81.30 | 81.30 | 0.00 | 0.00 | 81.30 |
| 1500 | Local travel | 0.00 | 0.00 | 0.00 | 0.00 | 1,972.81 | 1,972.81 | 1,972.81 | 0.00 | 0.00 | 1,972.81 |
| 1700 | Nat.Consult./Staff | 0.00 | 0.00 | 0.00 | 0.00 | 60,855.37 | 60,855.37 | 60,855.37 | 0.00 | 0.00 | 60,855.37 |
| 4500 | Equipment | (7.89) | 0.00 | 0.00 | 0.00 | 4,423.14 | 4,423.14 | 4,431.03 | (7.89) | 0.00 | 4,431.03 |
| 5100 | Other Direct Costs | 0.00 | 0.00 | 0.00 | 0.00 | 2,710.84 | 2,710.84 | 2,710.84 | 0.00 | 0.00 | 2,710.84 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7,005.10 | 7,005.10 |
| **140157-1-51-01** | **Total** | **(7.89)** | **0.00** | **0.00** | **0.00** | **70,043.46** | **70,043.46** | **70,051.35** | **(7.89)** | **7,005.10** | **77,056.45** |

*** Does not include Unapproved Obligations**

**PROJECT DELIVERY REPORT**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | **Project:** | 140157 - PCB MANAGEMENT AND DISPOSAL AT THE ENERGY SECTOR | **Project Manager:** | Carmela Centeno | **Project Validity:**<br>**Status:** | 02.06.2014 - 31.12.2022<br>Implement |
| **Reporting Period:** | **30.01.2014 - 30.06.2022** | **Project Theme:** | Energy and Environment | **Country:** | Lao PDR | **Region** | Asia and Pacific |

| **Sponsor Nr.** | **Sponsor** | **Grant** | **Grant Description** | **Fund** | **Currency** | **Grant Status** | **Grant Validity** |
|---|---|---|---|---|---|---|---|
| 400150 | GEF - Global Environment Facility | 2000002714 | LAO PCBS MANAGEMENT | GF | USD | Authority to implement | 30.05.2014 - 31.12.2022 |

| | | Current Year | | | | Cumulative to Date | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Description** | **Released Budget Current Year (a)** | **Obligations Current Year (b)** | **Disbursements Current Year (c)** | **Expenditures Current Year (d=b+c)** | **Total Agreement Budget (e)** | **Released Budget (f)** | **Obligations + Disbursements (g)** | **Funds Available* (h=f-g)** | **Support Cost (i)** | **Total Expenditures (j=g+i)** |
| **140157-1-53-01** | **4.1 M&E mechanism** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** | **USD** |
| 1100 | Staff & Intern Consultants | 32,365.09 | 0.00 | 0.00 | 0.00 | 42,000.00 | 42,000.00 | 9,634.91 | 32,365.09 | 0.00 | 9,634.91 |
| 1500 | Local travel | 0.00 | 0.00 | 0.00 | 0.00 | 6,561.14 | 6,561.14 | 6,561.14 | 0.00 | 0.00 | 6,561.14 |
| 1700 | Nat.Consult./Staff | 9,636.95 | 4,520.04 | 1,219.67 | 5,739.71 | 9,636.95 | 9,636.95 | 5,739.71 | 3,897.24 | 0.00 | 5,739.71 |
| 2100 | Contractual Services | 0.00 | 0.00 | 0.00 | 0.00 | 4,833.48 | 4,833.48 | 4,833.48 | 0.00 | 0.00 | 4,833.48 |
| 9300 | Support Cost | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2,676.96 | 2,676.96 |
| **140157-1-53-01** | **Total** | **42,002.04** | **4,520.04** | **1,219.67** | **5,739.71** | **63,031.57** | **63,031.57** | **26,769.24** | **36,262.33** | **2,676.96** | **29,446.20** |
| **2000002714** | **Total** | **299,095.31** | **18,343.09** | **21,359.74** | **39,702.83** | **1,400,000.00** | **1,400,000.00** | **1,140,607.52** | **259,392.48** | **114,060.83** | **1,254,668.35** |
| **140157** | **USD Total** | **299,095.31** | **18,343.09** | **21,359.74** | **39,702.83** | **1,400,000.00** | **1,400,000.00** | **1,140,607.52** | **259,392.48** | **114,060.83** | **1,254,668.35** |

*** Does not include Unapproved Obligations**

Report Prepared on: 05.07.2022

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## X. Synergies

1. **Synergies** achieved:

*Describe potential synergies arising out of UNIDO internal cooperation and/or cooperation with (external) bilateral and multilateral projects/programmes, if applicable.*

**3. Stories to be shared** (Optional)

*Please provide a brief summary of any especially interesting and impactful project results that are worth sharing with a larger audience, and/or investing communications time in. Please include links to any stories/videos available online.*

**EXPLANATORY NOTE**

1. **Timing & duration:** Each report covers a twelve-month period, i.e. 1 July 2021 – 30 June 2022.

2. **Responsibility:** The responsibility for preparing the report lies with the project manager in consultation with the Division Chief and Director.

3. **Evaluation:** For the report to be used effectively as a tool for annual self-evaluation, project counterparts need to be fully involved. The (main) counterpart can provide any additional information considered essential, including a simple rating of project progress.

4. **Results-based management**: The annual project/programme progress reports are required by the RBM programme component focal points to obtain information on outcomes observed.

| Global Environmental Objectives (GEOs) / Development Objectives (DOs) ratings | |
|---|---|
| **Highly Satisfactory (HS)** | Project is expected to achieve or exceed all its major global environmental objectives, and yield substantial global environmental benefits, without major shortcomings. The project can be presented as "good practice". |
| **Satisfactory (S)** | Project is expected to achieve most of its major global environmental objectives, and yields satisfactory global environmental benefits, with only minor shortcomings. |
| **Moderately Satisfactory (MS)** | Project is expected to achieve most of its major relevant objectives but with either significant shortcomings or modes overall relevance. Project is expected not to achieve some of its major global environmental objectives or yield some of the expected global environmental benefits. |
| **Moderately Unsatisfactory (MU)** | Project is expected to achieve some of its major global environmental objectives with major shortcomings or is expected to achieve only some of its major global environmental objectives. |
| **Unsatisfactory (U)** | Project is expected not to achieve most of its major global environmental objectives or to yield any satisfactory global environmental benefits. |
| **Highly Unsatisfactory (HU)** | The project has failed to achieve, and is not expected to achieve, any of its major global environmental objectives with no worthwhile benefits. |

| Implementation Progress (IP) | |
|---|---|
| **Highly Satisfactory (HS)** | Implementation of all components is in substantial compliance with the original/formally revised implementation plan for the project. The project can be presented as "good practice". |
| **Satisfactory (S)** | Implementation of most components is in substantial compliance with the original/formally revised plan except for only few that are subject to remedial action. |
| **Moderately Satisfactory (MS)** | Implementation of some components is in substantial compliance with the original/formally revised plan with some components requiring remedial action. |
| **Moderately Unsatisfactory (MU)** | Implementation of some components is not in substantial compliance with the original/formally revised plan with most components requiring remedial action. |
| **Unsatisfactory (U)** | Implementation of most components in not in substantial compliance with the original/formally revised plan. |
| **Highly Unsatisfactory (HU)** | Implementation of none of the components is in substantial compliance with the original/formally revised plan. |

| Risk ratings | |
|---|---|
| Risk ratings will access the overall risk of factors internal or external to the project which may affect implementation or prospects for achieving project objectives. Risk of projects should be rated on the following scale: | |
| **High Risk (H)** | There is a probability of greater than **75%** that assumptions may fail to hold or materialize, and/or the project may face high risks. |
| **Substantial Risk (S)** | There is a probability of between **51%** and **75%** that assumptions may fail to hold or materialize, and/or the project may face substantial risks. |
| **Moderate Risk (M)** | There is a probability of between **26%** and **50%** that assumptions may fail to hold or materialize, and/or the project may face only moderate risk. |
| **Low Risk (L)** | There is a probability of up to **25%** that assumptions may fail to hold or materialize, and/or the project may face only low risks. |