ENGR101/2017

Assignment 2 – Major Design Project

EWB Project

EWB 2.d Final Report

Workshop number:

EWB group number:

Due date: **Beginning of Workshop Week 11**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Student ID | User Name | Signature |
|  |  |  | Signed\*: |
|  |  |  | Signed\*: |
|  |  |  | Signed\*: |
|  |  |  | Signed\*: |
|  |  |  | Signed\*: |

\* I confirm that the submission attached to this cover sheet is entirely our own work (apart from general verbal discussion with other students).

**Marking Schedule**

Assessment Criteria

The following assessment rubric will be used to determine your total score. Numbers refer to corresponding sections in your report.

The Design Process

4: Identified the problem criteria, constraints and specifications /3

5: Identified critical questions and found information for the design. /4

6: Suggested several alternative solutions. /4

6: Justified the chosen solution (e.g. using the KT approach). /4

The Design Solution

7: Described the solution clearly, with thorough information on construction and maintenance costs associated with completion and construction of the design. Provided an appropriate diagram, possibly an accurate drawing with basic details and dimensions

/10

7: Quality and suitability of the design solution was described. /4

Evaluation

8: Discussed the design solution in the social, environmental, economic and cultural context of the region. Showed awareness of long term sustainability and maintenance of the engineering work that would be completed as a consequence of the design.

/4

9: The solution was evaluated with reference to the design criteria. /4

Team Learning and Experiences

10: Provided a collective statement about the learning experiences gained through the major design project process. /3

Communication and Presentation

Good summary

Correct units and significant figures

Correct referencing

Clear presentation

Clear writing with good grammar. /10

Deductions:

5 points each (missing cover sheet, marking schedule)

5 points per page over the limit

**Total: /50**

Comments:

Workshop number:

EWB group number:

EWB Title

Student Names

ENGR101

Foundations of Engineering

2017

University of Canterbury

# Summary

# Table of Contents

[Summary i](#_Toc482967473)

[Table of Contents ii](#_Toc482967474)

[The Problem Statement 1](#_Toc482967475)

[Define Success 1](#_Toc482967476)

[Soft Constraints 1](#_Toc482967477)

[Hard Constraints 1](#_Toc482967478)

[Research and Investigation 1](#_Toc482967479)

[Current Drying Method 1](#_Toc482967480)

[Access to Power 1](#_Toc482967481)

[Weather 1](#_Toc482967482)

[Copra 1](#_Toc482967483)

[Alternative Solutions 2](#_Toc482967484)

[Solution 1 2](#_Toc482967485)

[Solution 2 2](#_Toc482967486)

[Solution 3 2](#_Toc482967487)

[Recommended Solution 2](#_Toc482967488)

[Cost of Construction 2](#_Toc482967489)

[The Design 2](#_Toc482967490)

[Environmental 2](#_Toc482967491)

[Cultural 2](#_Toc482967492)

[Social 2](#_Toc482967493)

[Economic 2](#_Toc482967494)

[Maintenance 2](#_Toc482967495)

[End of Life 2](#_Toc482967496)

[Final Evaluation 2](#_Toc482967497)

[Team Learning and Experiences 3](#_Toc482967498)

[References 3](#_Toc482967499)

[Appendix 3](#_Toc482967500)

# The Problem Statement

# Define Success

## Soft Constraints

## Hard Constraints

# Research and Investigation

## Current Drying Method

## Access to Power

## Weather

## Copra

# Alternative Solutions

## Solution 1

## Solution 2

## Solution 3

# Recommended Solution

## Cost of Construction

# The Design

## Environmental

## Cultural

## Social

## Economic

## Maintenance

## End of Life

# Final Evaluation

# Team Learning and Experiences

# References

# Appendix