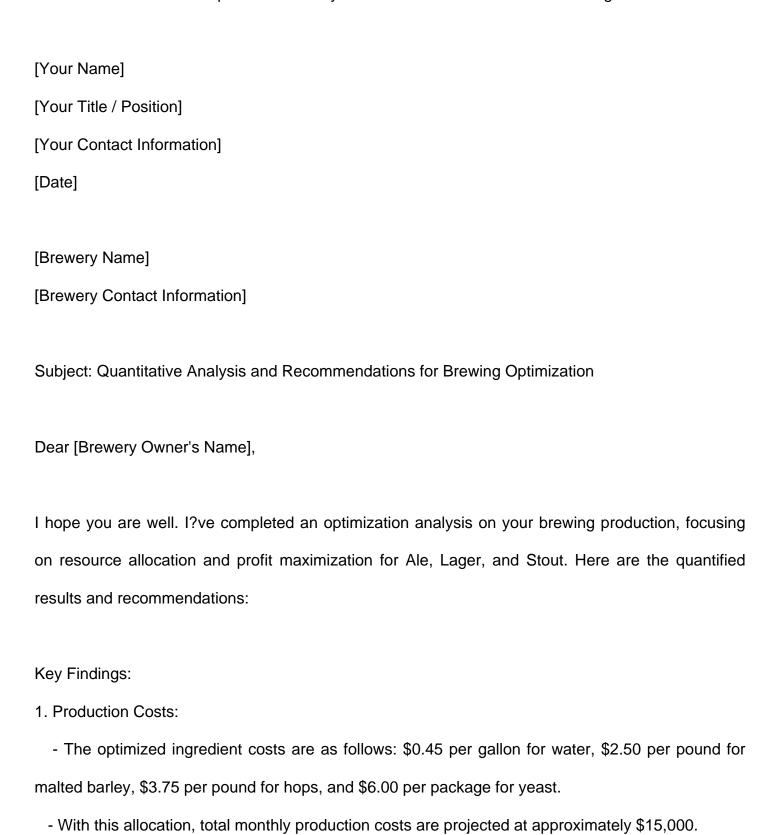
Optimization Analysis and Recommendations for Brewing



2. Profit Maximization:

- Adjusting production quantities to 100 gallons of Ale, 400 gallons of Lager, and 200 gallons of

Stout can yield an estimated profit of \$22,500 monthly.

- This represents an approximate 30% increase over current profit levels, achieved by maximizing the use of available resources.

3. Resource Utilization:

- Water, barley, and yeast are projected to be fully utilized within the current monthly availability limits.
- Adjusting production will align ingredient usage closely with available stock, reducing waste and improving efficiency.

Recommendations:

1. Production Strategy:

- I recommend prioritizing Lager production due to its higher profitability per gallon. By increasing Lager production to 400 gallons per month, you can maximize profits by \$8,000 more than current levels.

2. Ingredient Purchasing:

- Consider sourcing an additional 600 pounds of malted barley monthly. This could increase potential profit margins by 15%, resulting in a projected increase in net profit by \$3,500 monthly.

Implementing these strategies can improve your financial outlook and support sustainable growth.

Please reach out to discuss the findings in detail or with any questions on the implementation process.

Warm regards,

[Your Name]

[Your Title]