



Executive Summary

Bin 306 Brewing (Bin) is a Saskatchewan owned and incorporated production facility specializing in the brewing industry. Bin Brewing is one of the few companies in Saskatchewan that offer specialty beer products.

In business for only one year, the company has experienced many successes and challenges in the market of brewing. From promising start-up sales and positioning of their products in 54 SLGA liquor stores to a slow down due to inability to process the wort needed in beer making.

Honey was the main source of sugar chosen for the fermentation process however before any production began, the price of honey increased to \$2.62 from \$1.85. The increase could not be absorbed in the business nor passed on to the customer. The decision to use malt barley as the sugar source meant the wort process requirements increased. The 2HL brewhouse owned was not originally intended to manufacture the amount of wort now required. To fill one 90 Bbl/105HL fermentation tank, 50 batches are needed. There are three fermentation tanks. Bbl is barrels.

To close the gap between the current and future states for Bin Brewing, it is recommended that the current brewhouse be replaced with a 30 Bbl/35 HL High Efficiency Brewhouse System.

The following criteria were used in the decision-making process:

| Decision Table | |
|---------------------|-------------------|
| | 30Bbl / 35HL HEBS |
| Automation | |
| Process Improvement | √ |
| Technology Adoption | √ |
| Efficiency ↑ | √ |
| Quality ↑ | √ |
| Throughput ↑ | √ |
| RM Cost ↓ | √ |
| Labour ↓ | √ |
| Scrap ↓ | √ |
| Movement waste ↓ | √ |
| Production days ↓ | √ |