



# HIGHER EDUCATION SCIENCE AND TECHNOLOGY



## Internship Logbook

Student Name: BANJISIBANO FIONA

Month: JULY

Target	Achievements	Challenges	Lessons Learnt
1) General orientation at the factory 2) Cane preparation and extraction	Knowledge on the format of a sugar industry plan and the fact that sugar is got from squeezing cane to obtain juice	Lack of safety equipments while moving through the factory Delivery of more of trashes than cane hence yielding less juice Excessive mechanical damage during cane extraction	stationing of all the different sections in the sugar industry and how to extract juice from the cane fibers.
3) juice heating and treatment. 4) Clarification of the juice to obtain clear juice	Tactics on cane juice treatment and clarification	Insufficient steam Scarcity of cane Usage of improper lime during juice treatment Presence of mud in clear juice due to improper clarification	separation of clear juice from impurities (mud). Temperatures at which juice is heated at the heaters

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<p>5) sugar boiling at the pan to obtain sugar crystals 6) separation of the sugar crystals from molasses at the centrifugal machine</p>	<p>Desire for sugar boiling and centrifugal machine operations.</p>	<p>Insufficient raw materials such as syrup, molasses Difficulty in separation due to low quality massecuite Provision of low quality sugar due to low syrup brix</p>	<p>Crystallization of massecuite and separation of sugar from molasses</p>
<p>7) sugar drying in the drier and grading 8) sugar packaging in a 50 kg bag</p>	<p>Knowledge on accountability of the product in terms of quantity and quality.</p>	<p>Stealing of sugar by workers Incorrect weighing scale measurements causing packaging of excessive or less amount of sugar</p>	<p>Removal of undesired sizes of sugar crystals and packaging the sugar</p>
<p>9) feeding bagasse from the mill to the boiler furnace to obtain steam 10) filtration of juice from mud at the rotary vacuum filter</p>	<p>Theories on production of steam from bagasse and usage of filtration in practicals.</p>	<p>Scarcity of bagasse Improper extraction at the mill giving wet bagasse Improper separation of filtrate from filter cake</p>	<p>Formation of steam from the bagasse and further extraction of juice (filtrate). Formation of steam from the bagasse and further extraction of juice (filtrate).</p>

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<p>11)cooling of the overall hot-water at the spraypond 12)Treatment of water at the spraypond using caustic soda</p>	<p>Usage of caustic soda to carry out water treatment</p>	<p>Breakdown of the spray pond pump due to accumulation of dissolved salts cloudy weather that hinders effective evaporation lack of enough caustic soda lack of enough labour inaccurate measurement of the exact amount of caustic soda</p>	<p>Evaporation as a cooling system and treatment of spray pond water</p>
<p>13) treatment of cane with biocide 14)addition of imbibition water at the mill section</p>	<p>Skills on how to attain good quality juice with high brix</p>	<p>Presence of enough biocides Inaccurate measurement of the amount of biocide required Lack of enough water at the spray pond to distribute in the process Addition of excessive imbibition water</p>	<p>Use of biocide to kill germs in the cane and usage of water during juice extraction</p>

Supervisors Comment:

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