

Appendices

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Appendix 1: Schedule of Master Thesis

Activity	Time Frame
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Writing and Approval of Proposal	
Further Literature Review	
Design of Methodology and Approval	1 week
Questionnaire Design and Approval	2 weeks
Data Collection and Collation	August 1st – December 3rd
Data entry and Analysis	December 19th – January 30th
Interpretation of Results	February 3rd – March 20th
Conclusion and Recommendation	April 11th – 18th
Review of Thesis	April
Final Submission	April

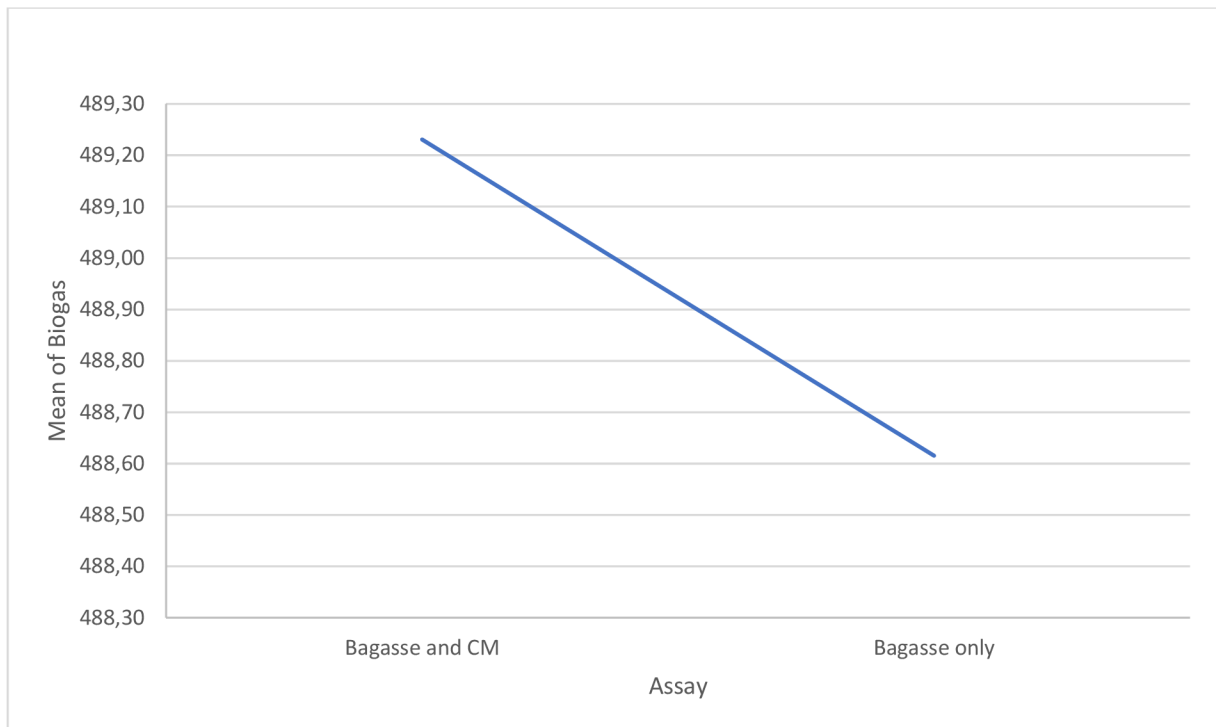
Appendix 2: Daily readings of pH, ORP and Biogas Production from the Sugarcane bagasse and cow manure batch assay.

Day	Date / time	ph	ORP [mV]	Gas volume [ml]
0	3/25/23 17:00	7.61	-339.4	0
2	3/27/23 17:00	7.09	-344.1	495
4	3/29/23 17:00	7.4	-378.5	505
6	3/31/23 17:00	7.48	-381.6	1025
8	4/2/23 17:00	7.56	-377.8	1335
10	4/4/23 17:00	7.79	-379.8	325
12	4/6/23 17:00	7.6	-344.6	935
14	4/8/23 17:00	7.65	-325.7	600
16	4/10/23 17:00	7.74	-332	650
18	4/12/23 17:00	7.35	-341.5	255
20	4/14/23 17:00	7.32	-335.6	125
22	4/16/23 17:00	7.16	-332.4	75
24	4/18/23 17:00	6.98	-328.8	35

Appendix 3: Daily readings of pH, ORP and Biogas Production from the Sugarcane bagasse batch assay.

Day	Date / time	Ph	ORP [mV]	Gas volume [ml]
0	3/25/23 17:00	7.61	-324.8	0
2	3/27/23 17:00	7.25	-408.2	935
4	3/29/23 17:00	7.43	-364.8	765
6	3/31/23 17:00	7.56	-375	652
8	4/2/23 17:00	7.6	-412.2	870
10	4/4/23 17:00	7.59	-458	210
12	4/6/23 17:00	7.55	-360.8	1130
14	4/8/23 17:00	7.59	-351.3	810
16	4/10/23 17:00	7.53	-351.3	550
18	4/12/23 17:00	7.44	-340	235
20	4/14/23 17:00	7.45	-332	110
22	4/16/23 17:00	7.36	-366.1	60
24	4/18/23 17:00	7.37	-353.6	25

Appendix 4: Means Plot of the two batch tests.



Appendix 5: Taking samples for pH and ORP test.



Appendix 6: A picture with some of the farmers in the study area



Appendix 7: A picture with the head of farmers in study area on his sugarcane farm.



