

LAMPIRAN

Lampiran Data Pengujian Aktual Menggunakan Refractometer

DATA AKTUAL					
Date	Hours	Initial <i>Brix</i>	Weight (Kg)	Latest <i>Brix</i>	Temp in the Pan (T3)
6/7/2024	12:59:19	11	21.40	12.1	40.5
6/7/2024	13:09:21	11	21.38	12.5	45.3
6/7/2024	13:19:23	11	21.37	12.4	49.7
6/7/2024	13:29:24	11	21.36	12.2	56.4
6/7/2024	13:39:26	11	21.30	12	60.1
6/7/2024	13:49:30	11	21.25	11.3	60.3
6/7/2024	13:59:31	11	21.12	11.2	61.1
6/7/2024	14:09:36	11	20.97	11.1	61.4
6/7/2024	14:19:39	11	20.82	11	60.6
6/7/2024	14:29:40	11	20.70	11.2	60.4
6/7/2024	14:39:42	11	20.56	11.1	60.9
6/7/2024	14:49:45	11	20.40	11.1	62.5
6/7/2024	14:59:47	11	20.29	11	61.6
6/7/2024	15:09:49	11	20.14	11.4	62.1
6/7/2024	15:19:47	11	20.13	11.4	62.1
6/7/2024	15:30:58	11	20.11	11.5	62
6/7/2024	15:40:59	11	19.74	11.7	62.9
6/7/2024	15:51:01	11	19.59	11.7	63.5
6/7/2024	16:01:04	11	19.45	11.9	63.6
6/7/2024	16:11:07	11	19.33	12	62.4
6/7/2024	16:21:08	11	19.20	12	62.6
6/7/2024	16:31:10	11	19.05	12	62.5
6/7/2024	16:41:13	11	18.92	12.2	62.6
6/7/2024	16:51:16	11	18.80	12.3	62.8
6/7/2024	17:01:17	11	18.65	12.2	64.3
6/7/2024	17:11:19	11	18.53	12.2	63.6
6/7/2024	17:21:21	11	18.38	12.5	63.2
6/7/2024	17:31:23	11	18.21	12.5	65.5
6/7/2024	17:41:28	11	18.03	13	65.7
6/7/2024	17:51:30	11	17.85	12.9	66.2
6/7/2024	18:01:46	11	17.67	13	65.4
6/7/2024	18:11:40	11	17.49	13.1	66
6/7/2024	18:21:41	11	17.29	13.1	64.9
6/7/2024	18:31:43	11	17.12	13.2	65.8
6/7/2024	18:41:46	11	16.92	13.2	64.8
6/7/2024	18:51:47	11	16.74	13.5	65.6
6/7/2024	19:01:49	11	16.57	13.9	65.7
6/7/2024	19:11:51	11	16.39	14	65.3
6/7/2024	19:21:53	11	16.21	14.2	65.9
6/7/2024	19:31:55	11	16.01	14.5	65
6/7/2024	19:41:56	11	15.83	14.6	65.8

6/7/2024	19:51:58	11	15.66	15.1	65.7
6/7/2024	20:02:01	11	15.48	15.2	67
6/7/2024	20:12:04	11	15.28	15.2	67.4
6/7/2024	20:22:06	11	15.11	15.6	66.8
6/7/2024	20:32:12	11	14.94	15.8	67.2
6/7/2024	20:42:25	11	14.76	16.1	67.4
6/7/2024	20:52:27	11	14.59	16.4	67.1
6/7/2024	21:02:17	11	14.42	16.5	67
6/7/2024	21:12:19	11	14.22	16.6	66.4
6/7/2024	21:22:21	11	14.03	16.8	65.7
6/7/2024	21:32:23	11	13.84	17	66.6
6/7/2024	21:42:25	11	13.63	17.1	67.4
6/7/2024	21:52:27	11	13.47	17.5	66
6/7/2024	22:02:29	11	13.26	18	67.8
6/7/2024	22:12:31	11	13.12	18.5	67.6
6/7/2024	22:22:32	11	12.91	18.9	67.1
6/7/2024	22:32:34	11	12.72	19.2	66.4
6/7/2024	22:42:36	11	12.52	19.5	67.4
6/7/2024	22:52:38	11	12.38	19.9	67.9
6/7/2024	23:02:40	11	12.18	20.2	67.4
6/7/2024	23:12:42	11	11.99	20.3	67.7
6/7/2024	23:22:44	11	11.79	20.8	66.6
6/7/2024	23:32:46	11	11.60	21.2	67.4
6/7/2024	23:42:48	11	11.38	21.6	68.3
6/7/2024	23:52:50	11	11.21	21.9	66.2
6/8/2024	0:02:52	11	11.03	22	66.3
6/8/2024	0:12:54	11	10.90	22.8	66.6
6/8/2024	0:22:55	11	10.67	23.5	66.4
6/8/2024	0:32:57	11	10.49	23.7	66.8
6/8/2024	0:42:59	11	10.28	24.4	67.8
6/8/2024	0:53:00	11	10.12	24.9	68.4
6/8/2024	1:03:02	11	9.95	25.3	68.6
6/8/2024	1:13:04	11	9.76	25.8	68
6/8/2024	1:23:06	11	9.59	26.5	66.4
6/8/2024	1:33:07	11	9.38	27.5	67.5
6/8/2024	1:43:09	11	9.20	27.8	67.8
6/8/2024	1:53:11	11	9.02	28.9	68.7
6/8/2024	2:03:13	11	8.85	30	67.1
6/8/2024	2:13:15	11	8.69	31	67.6
6/8/2024	2:23:17	11	8.50	32	67
6/8/2024	2:33:18	11	8.35	32.5	68.4
6/8/2024	2:43:20	11	8.14	33.2	66.4
6/8/2024	2:53:22	11	8.00	34	67.6
6/8/2024	3:03:24	11	7.81	35	68.2
6/8/2024	3:13:25	11	7.61	36.5	68

6/8/2024	3:23:27	11	7.46	37.5	67.9
6/8/2024	3:33:28	11	7.27	38.5	68
6/8/2024	3:43:31	11	7.08	40	68.2
6/8/2024	3:53:33	11	6.91	41.5	68.1
6/8/2024	4:03:35	11	6.75	43	68.1
6/8/2024	4:13:37	11	6.57	45	67.9
6/8/2024	4:23:39	11	6.36	47	67.2
6/8/2024	4:33:41	11	6.22	50	67.4
6/8/2024	4:43:43	11	6.06	52	70.2
6/8/2024	4:53:44	11	5.87	53	68.9
6/8/2024	5:03:46	11	5.69	55	67.4
6/8/2024	5:13:48	11	5.54	56	67.2
6/8/2024	5:23:50	11	5.37	58	67.8
6/8/2024	5:33:51	11	5.20	61	68
6/8/2024	5:43:53	11	5.01	63	67.4
6/8/2024	5:53:55	11	4.85	65.5	67.8

DATA AKTUAL				
Drum Temp(T2)	Pan Temp (T4)	Pressure (bar)	Laju Evaporasi	AVG Laju Evaporasi
33.7	43.4	0.25	0.12	0.696923077
34.1	45.1	0.25	0.06	
34.6	49.3	0.25	0.06	
34.9	53.9	0.25	0.36	
35.4	57.5	0.25	0.3	
36	57.3	0.25	0.78	
36.9	57.1	0.25	0.9	
37.6	57.2	0.25	0.9	
38.2	56.4	0.25	0.72	
39.1	55.6	0.25	0.84	
39.7	56	0.25	0.96	
40.1	57.4	0.25	0.66	
40.9	57.6	0.25	0.9	
41.5	56.1	0.25	0.06	
41.8	57.1	0.25	0.12	
42.6	56.3	0.25	2.22	
42.8	57.4	0.25	0.9	
43.4	58.4	0.25	0.84	
43.7	55.5	0.25	0.72	
44	56.3	0.25	0.78	
44.4	57.8	0.25	0.9	
44.9	57	0.25	0.78	
45.1	57.6	0.25	0.72	
45.6	57.6	0.25	0.9	

45.6	58.6	0.25	0.72	
46.2	57.7	0.25	0.9	
46.3	57.7	0.25	1.02	1.0824
47.1	59.1	0.25	1.08	
47.6	59.8	0.25	1.08	
47.7	58.4	0.25	1.08	
48.3	58.5	0.25	1.08	
48.5	58	0.25	1.2	
49.1	58	0.25	1.02	
49.2	59.3	0.25	1.2	
49.4	58.1	0.25	1.08	
49.3	57.3	0.25	1.02	
49.7	58	0.3	1.08	
50.1	57.5	0.3	1.08	
50.1	57.3	0.3	1.2	
50.7	57.6	0.3	1.08	
50.8	58.3	0.3	1.02	
50.9	56.9	0.3	1.08	
50.9	59.2	0.3	1.2	
51.1	59.1	0.3	1.02	
51.2	58.8	0.3	1.02	
51.6	57.5	0.3	1.08	
51.8	57.2	0.3	1.02	
51.9	57.7	0.3	1.02	
51.7	58.9	0.3	1.2	
51.9	58.3	0.3	1.14	
52.4	58.1	0.3	1.14	
52.5	57.5	0.3	1.26	
52.4	57.3	0.3	0.96	
52.7	56.1	0.3	1.26	
52.7	57.9	0.3	0.84	
52.9	55.8	0.3	1.26	
52.9	56.7	0.3	1.14	
53.5	58.1	0.3	1.2	
53.7	57.9	0.3	0.84	
53.7	57.9	0.3	1.2	
53.8	57.8	0.3	1.14	
53.8	56.7	0.3	1.2	
54.1	57.3	0.3	1.14	
54.1	57.5	0.3	1.32	
54,3	58.3	0.3	1.02	
54.4	58.1	0.3	1.08	
54.1	57.4	0.3	0.78	
54.5	57.9	0.3	1.38	
54.6	56.7	0.3	1.08	

54.7	57	0.3	1.26
54.6	58.1	0.3	0.96
54.3	56.6	0.3	1.02
54.7	57.7	0.3	1.14
54.5	57.2	0.3	1.02
54.6	57.5	0.3	1.26
54.9	56.8	0.3	1.08
54.7	57.6	0.3	1.08
54.5	57.8	0.3	1.02
54.9	57	0.3	0.96
54.9	57.3	0.3	1.14
54.8	57.2	0.3	0.9
54.6	55.8	0.3	1.26
54.9	56.2	0.3	0.84
54.7	56.6	0.3	1.14
54.7	57.9	0.3	1.2
54.9	56.7	0.3	0.9
54.6	57	0.3	1.14
54.9	56.4	0.3	1.14
54.9	56.3	0.3	1.02
54.7	56.2	0.3	0.96
54.8	58.1	0.3	1.08
54.7	57.4	0.3	1.26
54.8	56.8	0.3	0.84
54.7	56.7	0.3	0.96
54.7	58.4	0.3	1.14
54.8	57.3	0.3	1.08
54.4	56.7	0.3	0.9
54.8	57.2	0.3	1.02
54.7	57.6	0.3	1.02
54.7	58.2	0.3	1.14
54.8	59.8	0.3	0.96
54.7	58.8	0.3	

Lampiran Data Pengujian Sistem Kontrol ESP32

Data Kontrol ESP32							
Tanggal	Jam	Brix Awal	Massa Terkini	Brix Terkini	Suhu Tangki (T1)	Nilai Evaporasi	Average
6/7/2024	12:59:19	11	21.4	11	50	0	0
6/7/2024	13:09:21	11	21.38	11.05	55	0.12	0.696923
6/7/2024	13:19:23	11	21.37	11.07	61	0.06	
6/7/2024	13:29:24	11	21.36	11.08	66	0.06	
6/7/2024	13:39:26	11	21.3	11.11	73	0.36	

6/7/2024	13:49:30	11	21.25	11.26	75	0.3	
6/7/2024	13:59:31	11	21.12	11.4	76	0.78	
6/7/2024	14:09:36	11	20.97	11.54	79	0.9	
6/7/2024	14:19:39	11	20.82	11.69	78	0.9	
6/7/2024	14:29:40	11	20.7	11.81	77	0.72	
6/7/2024	14:39:42	11	20.56	11.95	78	0.84	
6/7/2024	14:49:45	11	20.4	12.11	77	0.96	
6/7/2024	14:59:47	11	20.29	12.22	78	0.66	
6/7/2024	15:09:49	11	20.14	12.37	79	0.9	
6/7/2024	15:19:47	11	20.13	12.38	77	0.06	
6/7/2024	15:30:58	11	20.11	12.4	79	0.12	
6/7/2024	15:40:59	11	19.74	12.77	79	2.22	
6/7/2024	15:51:01	11	19.59	12.92	79	0.9	
6/7/2024	16:01:04	11	19.45	13.06	78	0.84	
6/7/2024	16:11:07	11	19.33	13.18	79	0.72	
6/7/2024	16:21:08	11	19.2	13.31	77	0.78	
6/7/2024	16:31:10	11	19.05	13.46	78	0.9	
6/7/2024	16:41:13	11	18.92	13.59	76	0.78	
6/7/2024	16:51:16	11	18.8	13.71	76	0.72	
6/7/2024	17:01:17	11	18.65	13.86	77	0.9	
6/7/2024	17:11:19	11	18.53	13.98	76	0.72	
6/7/2024	17:21:21	11	18.38	14.13	79	0.9	
6/7/2024	17:31:23	11	18.21	14.3	76	1.02	1.0824
6/7/2024	17:41:28	11	18.03	14.48	77	1.08	
6/7/2024	17:51:30	11	17.85	14.66	76	1.08	
6/7/2024	18:01:46	11	17.67	14.84	79	1.08	
6/7/2024	18:11:40	11	17.49	15.02	77	1.08	
6/7/2024	18:21:41	11	17.29	15.22	77	1.2	
6/7/2024	18:31:43	11	17.12	15.39	79	1.02	
6/7/2024	18:41:46	11	16.92	15.59	76	1.2	
6/7/2024	18:51:47	11	16.74	15.77	76	1.08	
6/7/2024	19:01:49	11	16.57	15.94	78	1.02	
6/7/2024	19:11:51	11	16.39	16.12	79	1.08	
6/7/2024	19:21:53	11	16.21	16.31	76	1.08	
6/7/2024	19:31:55	11	16.01	16.5	76	1.2	
6/7/2024	19:41:56	11	15.83	16.68	78	1.08	
6/7/2024	19:51:58	11	15.66	16.85	78	1.02	
6/7/2024	20:02:01	11	15.48	17.04	76	1.08	
6/7/2024	20:12:04	11	15.28	17.23	76	1.2	
6/7/2024	20:22:06	11	15.11	17.4	76	1.02	
6/7/2024	20:32:12	11	14.94	17.58	79	1.02	
6/7/2024	20:42:14	11	14.76	17.76	79	1.08	
6/7/2024	20:52:16	11	14.59	17.92	77	1.02	
6/7/2024	21:02:17	11	14.42	18.1	78	1.02	
6/7/2024	21:12:19	11	14.22	18.29	79	1.2	

6/7/2024	21:22:21	11	14.03	18.49	78	1.14
6/7/2024	21:32:23	11	13.84	18.67	77	1.14
6/7/2024	21:42:25	11	13.63	18.88	78	1.26
6/7/2024	21:52:27	11	13.47	19.04	79	0.96
6/7/2024	22:02:29	11	13.26	19.25	77	1.26
6/7/2024	22:12:31	11	13.12	19.39	79	0.84
6/7/2024	22:22:32	11	12.91	19.6	76	1.26
6/7/2024	22:32:34	11	12.72	19.8	76	1.14
6/7/2024	22:42:36	11	12.52	19.99	78	1.2
6/7/2024	22:52:38	11	12.38	20.14	76	0.84
6/7/2024	23:02:40	11	12.18	20.33	77	1.2
6/7/2024	23:12:42	11	11.99	20.52	76	1.14
6/7/2024	23:22:44	11	11.79	20.72	78	1.2
6/7/2024	23:32:46	11	11.6	20.92	78	1.14
6/7/2024	23:42:48	11	11.38	21.13	76	1.32
6/7/2024	23:52:50	11	11.21	21.3	78	1.02
6/8/2024	0:02:52	11	11.03	21.48	76	1.08
6/8/2024	0:12:54	11	10.9	21.61	79	0.78
6/8/2024	0:22:55	11	10.67	21.84	78	1.38
6/8/2024	0:32:57	11	10.49	22.02	77	1.08
6/8/2024	0:42:59	11	10.28	22.23	76	1.26
6/8/2024	0:53:00	11	10.12	22.39	79	0.96
6/8/2024	1:03:02	11	9.95	22.56	76	1.02
6/8/2024	1:13:04	11	9.76	22.75	79	1.14
6/8/2024	1:23:06	11	9.59	22.92	79	1.02
6/8/2024	1:33:07	11	9.38	23.13	76	1.26
6/8/2024	1:43:09	11	9.2	23.31	76	1.08
6/8/2024	1:53:11	11	9.02	23.49	79	1.08
6/8/2024	2:03:13	11	8.85	23.66	76	1.02
6/8/2024	2:13:15	11	8.69	23.82	79	0.96
6/8/2024	2:23:17	11	8.5	24.01	76	1.14
6/8/2024	2:33:18	11	8.35	24.17	79	0.9
6/8/2024	2:43:20	11	8.14	24.37	79	1.26
6/8/2024	2:53:22	11	8	24.52	79	0.84
6/8/2024	3:03:24	11	7.81	24.7	79	1.14
6/8/2024	3:13:25	11	7.61	24.9	77	1.2
6/8/2024	3:23:27	11	7.46	25.05	77	0.9
6/8/2024	3:33:28	11	7.27	25.24	76	1.14
6/8/2024	3:43:31	11	7.08	25.43	79	1.14
6/8/2024	3:53:33	11	6.91	25.6	76	1.02
6/8/2024	4:03:35	11	6.75	25.76	76	0.96
6/8/2024	4:13:37	11	6.57	25.94	79	1.08
6/8/2024	4:23:39	11	6.36	26.15	76	1.26
6/8/2024	4:33:41	11	6.22	26.3	79	0.84
6/8/2024	4:43:43	11	6.06	26.45	78	0.96

6/8/2024	4:53:44	11	5.87	26.65	78	1.14	
6/8/2024	5:03:46	11	5.69	26.82	77	1.08	
6/8/2024	5:13:48	11	5.54	26.97	79	0.9	
6/8/2024	5:23:50	11	5.37	27.14	78	1.02	
6/8/2024	5:33:51	11	5.2	27.31	76	1.02	
6/8/2024	5:43:53	11	5.01	27.51	77	1.14	
6/8/2024	5:53:55	11	4.85	27.66	77	0.96	

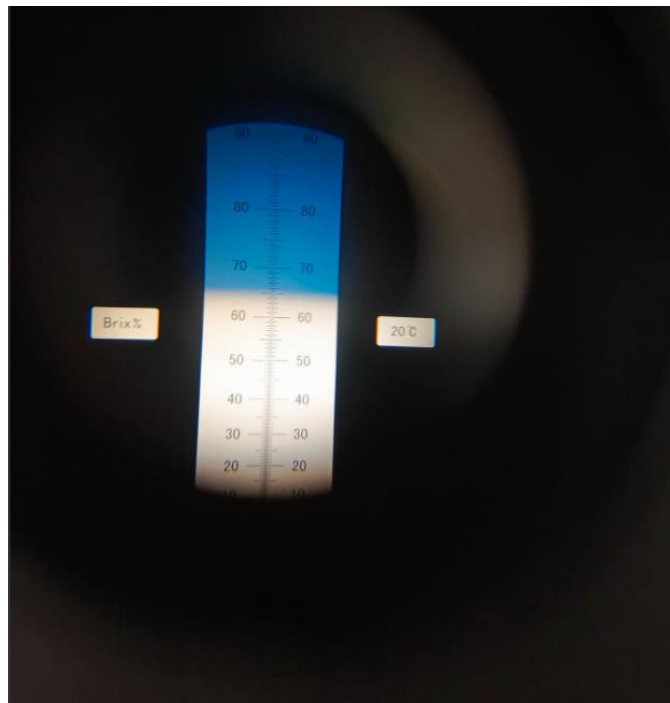
Lampiran Data Laju Evaporasi Perjam

Waktu	Laju Evaporasi (Kg/jam)
Jam Ke 1	0.28
Jam ke 2	0.83
Jam ke 3	0.84
Jam ke 4	0.8
Jam ke 5	0.98
Jam ke 6	1.1
Jam ke 7	1.09
Jam ke 8	1.06
Jam ke 9	1.16
Jam ke 10	1.08
Jam ke 11	1.15
Jam ke 12	1.08
Jam ke 13	1.1
Jam ke 14	1.04
Jam ke 15	1.06
Jam ke 16	1.06
Jam ke 17	0.84
Rata rata	0.973529

Lampiran Pengambilan Data







Lampiran Pengambilan Nira Aren Cair

