LAMPIRAN

Lampiran 1. Tabel Skala Rand

Variasi kadar uji selanjutnya berdasarkan atas *interval progressive bissection* pada suatu skala logaritmik (Guthrie & Jerome, 1980).

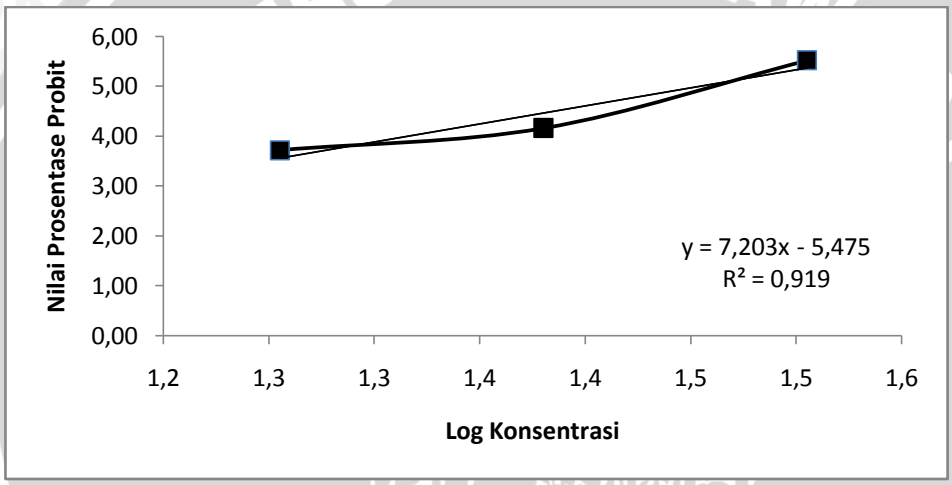
Kolom				
1	**2**	**3**	**4**	**5**
10	-	-	-	-
-	-	-	-	8.7
-	-	-	7.5	-
-	-	-	-	6.5
-	-	5.6	-	-
-	-	-	4.2	-
-	**3.2**	-	-	-
-	-	-	-	2.8
-	-	-	**2.4**	-
-	-	-	-	2.1
-	-	**1.8**	-	-
-	-	-	-	1.55
-	-	-	**1.35**	-
-	-	-	-	1.15
1.0	-	-	-	-

Lampiran 2. Analisis Probit

- **Tabel Probit Kematian Udang Vaname**

Conc. (mg/l)	Log_{10} Conc.	Total No.	No. Dead	% Mortality	Probit
0,0		10			
10,0	1,0	10	1	10	
13,5	1,1	10	2	20	
18,0	1,3	10	1	10	3,72
24,0	1,4	10	2	20	4,16
32,0	1,5	10	7	70	5,52

Grafik $LC_{50\text{-}96jam}$ beserta rumus regresinya yaitu :



Rumus regresi yang didapatkan, yaitu :

Y = 7,023X – 5,475

5 = 7,023X – 5,475

$$X = \frac{5 + 5{,}475}{7{,}023}$$

$$X = 1{,}4915$$

$LC_{50\text{-}96jam}$ = antilog X

= antilog 1,4915

= 31,01 ppm

Lampiran 3. Tabel Transformasi Prosentase Probit

%	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	...	1.9098	2.1218	2.2522	2.3479	2.4242	2.4879	2.5427	2.5911	2.6344
1	2.6737	2.7096	2.7429	2.7738	2.8027	2.8299	2.8556	2.8799	2.9031	2.9251
2	2.9463	2.9665	2.9859	3.0046	3.0226	3.0400	3.0569	3.0732	3.089	3.1043
3	3.1192	3.1337	3.1478	3.1616	3.175	3.1881	3.2009	3.2134	3.2256	3.2376
4	3.2493	3.2608	3.2721	3.2831	3.294	3.3046	3.3151	3.3253	3.3354	3.3454
5	3.3551	3.3648	3.3742	3.3836	3.3928	3.4018	3.4107	3.4195	3.4282	3.4368
6	3.4452	3.4536	3.4618	3.4699	3.478	3.4859	3.4937	3.5051	3.5091	3.5167
7	3.5242	3.5316	3.5389	3.5462	3.5534	3.5605	3.5675	3.5745	3.5813	3.55882
8	3.5949	3.6015	3.6083	3.6148	3.6213	3.6278	3.6342	3.6405	3.6468	3.6531
9	3.6502	3.6654	3.6715	3.6775	3.6835	3.6894	3.6953	3.7012	3.707	3.7127
10	3.7184	3.7241	3.7298	3.7354	3.7409	3.7464	3.7519	3.7574	3.7628	3.7281
11	3.7735	3.7788	3.784	3.7893	3.7945	3.7996	3.8048	3.8099	3.815	3.82
12	3.825	3.83	3.835	3.8399	3.8448	3.8497	3.8545	3.8593	3.8641	3.8689
13	3.8736	3.8783	3.883	3.8877	3.8923	3.8969	3.9015	3.9061	3.9107	3.9152
14	3.9197	3.9242	3.9286	3.9331	3.9375	3.9419	3.9463	3.9506	3.955	3.9593
15	3.9636	3.9678	3.9721	3.9763	3.9806	3.9848	3.989	3.9931	3.9973	4.0014
16	4.0055	4.0096	4.0137	4.0178	4.0218	4.0259	4.0299	4.0339	4.0379	4.0419
17	4.0458	4.0496	4.0537	4.0576	4.0615	4.0654	4.0693	4.0731	4.077	4.0808
18	4.0846	4.0884	4.0922	4.096	4.0998	4.1035	4.1073	4.111	4.1147	4.1184
19	4.1221	4.1258	4.1295	4.1331	4.1367	4.1404	4.144	4.1475	4.1512	4.1548
20	4.1584	4.1619	4.1655	4.169	4.1726	4.1761	4.1796	4.1831	4.1866	4.1901
21	4.1936	4.197	4.2005	4.2039	4.2074	4.2108	4.2142	4.2176	4.221	4.2244
22	4.2278	4.2312	4.2345	4.2379	4.2412	4.2446	4.2479	4.2512	4.2546	4.2579
23	4.2612	4.2644	4.2677	4.271	4.2743	4.2775	4.2808	4.284	4.2872	4.2905
24	4.2937	4.2969	4.3001	4.3033	4.3065	4.3097	4.3129	4.316	4.3192	4.3224
25	4.3255	4.3287	4.3318	4.3349	4.338	4.3412	4.3443	4.3474	4.3505	4.3536
26	4.3567	4.3597	4.3628	4.3659	4.3689	4.372	4.375	4.3781	4.3811	4.3842
27	4.3872	4.3902	4.3932	4.3962	4.3992	4.4022	4.4052	4.4082	4.4112	4.4142
28	4.4172	4.4201	4.4231	4.426	4.429	4.4319	4.4349	4.4378	4.4406	4.4437
29	4.4466	4.4495	4.4524	4.4554	4.4583	4.4612	4.4641	4.467	4.4698	4.4727
30	4.4756	4.4785	4.4813	4.4842	4.4871	4.4899	4.4928	4.4956	4.4985	4.5013
31	4.5041	4.507	4.5098	4.5126	4.5155	4.5183	4.5211	4.5239	4.5267	4.5295
32	4.5323	4.5354	4.5379	4.5407	4.5435	4.5462	4.549	4.5518	4.5546	4.5573
33	4.5601	4.5628	4.5656	4.5684	4.5711	4.5738	4.5766	4.5793	4.5821	4.5848
34	4.5875	4.5903	4.593	4.5957	4.5984	4.6011	4.6039	4.6066	4.6093	4.612
35	4.6147	4.6174	4.6201	4.6228	4.6255	4.6281	4.6308	4.6335	4.6362	4.6389
36	4.6415	4.6442	4.6469	4.6495	4.6522	4.6549	4.6575	4.6602	4.6628	4.6655
37	4.6681	4.6708	4.6734	4.6761	4.6787	4.6814	4.684	4.6866	4.6893	4.6919
38	0.6945	4.6971	4.6998	4.7024	4.705	4.7076	4.7102	4.7129	4.7155	4.7181
39	4.7207	4.7233	4.7259	4.7285	4.7311	4.7337	4.7363	4.7389	4.7415	4.7441
40	4.7467	4.7492	4.7518	4.7544	4.757	4.7596	4.7622	4.7647	4.7673	4.7699
41	4.7725	4.775	4.7776	4.7802	4.7827	4.7853	4.7879	4.7904	4.793	4.7955
42	4.7981	4.8007	4.8032	4.8058	4.8083	4.8109	4.8134	4.816	4.8185	4.8211
43	4.8236	4.8262	4.8287	4.8313	4.8338	4.8363	4.8389	4.8414	4.844	4.8465
44	4.849	4.8516	4.8541	4.8566	4.8592	4.8617	4.8642	4.8668	4.8693	4.8718
45	4.8743	4.8769	4.8794	4.8819	4.8844	4.887	4.8895	4.892	4.8945	4.897
46	4.8996	4.9021	4.9045	4.9071	4.9096	4.9122	4.9147	4.9172	4.9197	4.9222
47	4.9247	409272	4.9298	4.9323	4.9348	4.9373	4.9398	4.9423	4.9448	4.9473
48	4.9498	4.9524	4.9549	4.9574	4.9599	4.9624	4.9649	4.9674	4.9699	4.9724
49	4.9749	4.9774	4.9799	4.9825	4.985	4.9875	4.99	4.9925	4.995	4.9975
50	50,000	5.0025	5.005	5.0075	5.01	5.0125	5.015	5.0175	50,201	5.0226
51	5.0251	5.0276	5.0301	5.0326	5.0351	5.0376	5.0401	5.0426	5.0451	5.0476
52	5.0502	5.0527	5.0552	5.0577	5.0602	5.0627	5.0652	5.0677	5.0702	5.0728
53	5.0753	5.0778	5.0803	5.0828	5.0853	5.0878	5.0904	5.0929	5.0954	5.0979
54	5.1004	5.103	5.1055	5.108	5.1105	5.113	5.1156	5.1181	5.1206	5.1231
55	5.1257	5.1282	5.1307	5.1332	5.1358	5.1383	5.1408	5.1434	5.1459	5.1484
56	5.151	5.1535	5.156	5.1586	5.1611	5.1637	5.1662	5.1689	5.1713	5.1738

57	5.1764	5.1789	5.1815	5.184	5.1866	5.1891	5.1917	5.1942	5.1968	5.1993
58	5.2019	5.2045	5.207	5.2096	5.2121	5.2147	5.2173	5.2198	5.2224	5.225
59	5.2275	5.2301	5.2327	5.2353	5.2378	5.2404	5.243	5.2456	5.2482	5.2508
60	5.2533	5.2559	5.2585	5.2611	5.2637	5.2666	5.2689	5.2715	5.2741	5.2767
61	5.2793	5.2819	5.2845	5.2871	5.2898	5.2924	5.295	5.2976	5.3002	5.3029
62	5.3055	5.3081	5.3107	5.3134	5.316	5.3186	5.3213	5.3239	5.3266	5.3292
63	5.3319	5.3345	5.3372	5.3398	5.3425	5.3451	5.3478	5.3505	5.3531	5.3558
64	5.3585	5.3611	5.3638	5.3665	5.3692	5.3719	5.3745	5.3772	5.3799	5.3826
65	5.3853	5.388	5.3907	5.3934	5.3961	5.3989	5.4016	5.4043	5.407	5.4097
66	5.4125	5.4152	5.4179	5.4207	5.4234	5.4261	5.4289	5.4316	5.4344	5.4372
67	5.4399	5.4427	5.4454	5.4482	5.451	5.4538	5.4565	5.4593	5.4621	5.4649
68	5.4677	5.4705	5.4733	5.4761	5.4789	5.4817	5.4845	5.4874	5.4902	5.493
69	5.4959	5.4987	5.5015	5.5044	5.5072	5.5101	5.5129	5.5158	5.5187	5.5215
70	5.5244	5.5273	5.5302	5.533	5.5359	5.5388	5.5417	5.5446	5.5476	5.5505
71	5.5534	5.5563	5.5592	5.5622	5.5651	5.5681	5.571	5.574	5.5769	5.5799
72	5.5828	5.5858	5.5888	3.5918	5.5948	5.5978	5.6008	5.6038	5.6068	5.6098
73	5.6128	5.6158	5.6189	5.6219	5.625	5.628	5.6311	5.6341	5.6372	5.6403
74	5.6433	5.6464	5.6495	5.6526	5.6557	5.6588	5.662	5.6651	5.6682	5.6713
75	5.6745	5.6776	5.6808	5.684	5.6871	5.6903	5.6935	5.6967	5.6999	5.7031
76	5.7063	5.7095	5.7128	5.716	5.7192	5.7225	5.7257	5.729	5.7323	5.7356
77	5.7388	5.7421	5.7454	5.7488	5.7521	5.7554	5.7588	5.7621	5.7655	5.7688
78	5.7722	5.7756	5.779	5.7824	5.7858	5.7892	5.7926	5.7961	5.7995	5.803
79	5.8064	5.8099	5.8134	5.8169	5.8204	5.8239	5.8274	5.831	5.8345	5.8381
80	5.8416	5.8452	5.8488	5.8524	5.856	5.8596	5.8633	5.8669	5.8705	5.8742
81	5.8779	5.8816	5.8853	5.889	5.8927	5.8965	5.9002	5.904	5.9078	5.9116
82	5.9154	5.9192	5.923	5.9269	5.9307	5.9346	5.9385	5.9424	5.9463	5.9502
83	5.9542	5.9581	5.9621	5.9661	5.9701	5.9741	5.9782	5.9822	5.9863	5.9904
84	5.9945	5.9986	6.0027	6.0069	6.011	6.0152	6.0194	6.0237	6.0279	6.0322
85	6.0364	6.0407	6.045	6.0494	6.0537	6.0581	6.0625	6.0669	6.0714	6.0758
86	6.0803	6.0848	6.0893	6.0939	6.0985	6.1031	6.1077	6.1123	6.117	6.1217
87	6.1264	6.1311	6.1359	6.1407	6.1455	6.1503	6.1552	6.1601	6.165	6.17
88	6.175	6.18	6.185	6.1901	6.1952	6.2004	6.2055	6.2107	6.216	6.2212
89	6.2265	6.2319	6.2372	6.2426	6.2481	6.2536	6.2591	6.2646	6.2702	6.2759
90	6.2816	6.2873	6.293	6.2988	6.3047	6.3106	6.3165	6.3225	6.3285	6.3346
91	6.3408	6.3469	6.3532	6.3595	6.3658	6.3722	6.3787	6.3852	6.3917	6.3984
92	6.4051	6.4118	6.4187	6.4255	6.4325	6.4395	6.4466	6.4538	6.4611	6.4684
93	6.4758	6.4833	6.4909	6.4985	6.5063	6.5141	6.522	6.5301	6.5382	6.5464
94	6.5548	6.5632	6.5718	6.5805	65,893	6.5982	6.6072	6.6164	6.6256	6.6352
95	6.6449	6.6546	6.6646	6.6747	6.6849	6.6954	6.706	6.7169	6.7279	6.7392
96	6.7507	6.7624	6.7744	6.7866	6.7991	6.8119	6.825	6.8384	6.8522	6.8663
97	6.8808	6.8957	6.911	6.9268	6.9431	6.96	6.9774	6.9954	7.0741	7.0335
98	7.2537	7.0749	7.0966	7.1201	7.1444	7.1707	7.1973	7.2262	7.2571	7.2904
99	7.3263	7.3656	7.4087	7.4571	7.512	7.5758	7.652	7.7478	7.8782	8.0902

Lampiran 4. Kematian Udang Vaname (*Litopenaeus vannamei*)

Kematian Udang Vaname yang diinfeksi *Vibrio harveyi*

Perlakuan	22 Des	23 Des	24 Des	25 Des	26 Des	27 Des	28 Des	Total	Sisa	SR (%)
A1	3	1	2		1			**7**	**3**	***70***
2	3	2		1		1	1	**8**	**2**	***80***
3	2	2	1		1	1		**7**	**3**	***70***
4	3	1	1	2				**7**	**3**	***70***
5	2	2			1	1		**6**	**4**	***60***
6	3	1		2	1			**7**	**3**	***70***
7	4	1	1		2			**8**	**2**	***80***
8	3	2	1	1			1	**8**	**2**	***80***
9	3	1		1	1	1		**7**	**3**	***70***
10	3	2	1	1	1			**8**	**2**	***80***
Rata-rata	**2,9**	**1,5**	**0,7**	**0,8**	**0,8**	**0,4**	**0,2**	**7,3**	**2,7**	**73**
B1	1	1		1				**3**	**7**	***30***
2	2	1						**3**	**7**	***30***
3	1	1						**2**	**8**	***20***
4	1		1		1			**3**	**7**	***30***
5	1	1						**2**	**8**	***20***
6	1	1		1				**3**	**7**	***30***
7	1	2						**3**	**7**	***30***
8	2	1						**3**	**7**	***30***
9	2		1					**3**	**7**	***30***
10	1	1	1					**3**	**7**	***30***
Rata-rata	**1,3**	**0,9**	**0,3**	**0,2**	**0,1**	**0**	**0**	**2,8**	**7,2**	**28**

Keterangan :

- **A = Perlakuan tanpa pemberian minyak cengkah (sebelum)**
- **B = Perlakuan dengan pemberian minyak cengkeh (sesudah)**

Lampiran 5. Hasil Analisa Uji-T Berpasangan

Uji T Kelulushidupan Udang Vaname Yang Diinfeksi *Vibrio harveyi*

Ulangan	Sebelum	Sesudah	D_i
1	30	70	40
2	20	70	50
3	30	80	50
4	30	70	40
5	40	80	40
6	30	70	40
7	20	70	50
8	20	70	50
9	30	70	40
10	20	70	50
Total			450

$$\bar{D} = \frac{\sum D_i}{n}$$

$$\bar{D} = \frac{450}{10} = 45$$

$$S_D = \sqrt{\frac{\sum (D_i - \bar{D})^2}{n-1}}$$

$$S_D = \sqrt{\frac{250}{10-1}} = \sqrt{\frac{250}{9}} = 5{,}27$$

$$T_{hitung} = \frac{\bar{D}}{S_D/\sqrt{n}}$$

$$= \frac{45}{5{,}27/\sqrt{10}} = 27{,}002$$

T_{tabel} 5% = 2,262

Berati $T_{hitung} > T_{tabel}$

Lampiran 6. Tabel T

t Table

cum. prob	$t_{.50}$	$t_{.75}$	$t_{.80}$	$t_{.85}$	$t_{.90}$	$t_{.95}$	$t_{.975}$	$t_{.99}$	$t_{.995}$	$t_{.999}$	$t_{.9995}$
one-tail	0.50	0.25	0.20	0.15	0.10	0.05	0.025	0.01	0.005	0.001	0.0005
two-tails	1.00	0.50	0.40	0.30	0.20	0.10	0.05	0.02	0.01	0.002	0.001
df											
1	0.000	1.000	1.376	1.963	3.078	6.314	12.71	31.82	63.66	318.31	636.62
2	0.000	0.816	1.061	1.386	1.886	2.920	4.303	6.965	9.925	22.327	31.599
3	0.000	0.765	0.978	1.250	1.638	2.353	3.182	4.541	5.841	10.215	12.924
4	0.000	0.741	0.941	1.190	1.533	2.132	2.776	3.747	4.604	7.173	8.610
5	0.000	0.727	0.920	1.156	1.476	2.015	2.571	3.365	4.032	5.893	6.869
6	0.000	0.718	0.906	1.134	1.440	1.943	2.447	3.143	3.707	5.208	5.959
7	0.000	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.499	4.785	5.408
8	0.000	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.355	4.501	5.041
9	0.000	0.703	0.883	1.100	1.383	1.833	2.262	2.821	3.250	4.297	4.781
10	0.000	0.700	0.879	1.093	1.372	1.812	2.228	2.764	3.169	4.144	4.587
11	0.000	0.697	0.876	1.088	1.363	1.796	2.201	2.718	3.106	4.025	4.437
12	0.000	0.695	0.873	1.083	1.356	1.782	2.179	2.681	3.055	3.930	4.318
13	0.000	0.694	0.870	1.079	1.350	1.771	2.160	2.650	3.012	3.852	4.221
14	0.000	0.692	0.868	1.076	1.345	1.761	2.145	2.624	2.977	3.787	4.140
15	0.000	0.691	0.866	1.074	1.341	1.753	2.131	2.602	2.947	3.733	4.073
16	0.000	0.690	0.865	1.071	1.337	1.746	2.120	2.583	2.921	3.686	4.015
17	0.000	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.898	3.646	3.965
18	0.000	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.878	3.610	3.922
19	0.000	0.688	0.861	1.066	1.328	1.729	2.093	2.539	2.861	3.579	3.883
20	0.000	0.687	0.860	1.064	1.325	1.725	2.086	2.528	2.845	3.552	3.850
21	0.000	0.686	0.859	1.063	1.323	1.721	2.080	2.518	2.831	3.527	3.819
22	0.000	0.686	0.858	1.061	1.321	1.717	2.074	2.508	2.819	3.505	3.792
23	0.000	0.685	0.858	1.060	1.319	1.714	2.069	2.500	2.807	3.485	3.768
24	0.000	0.685	0.857	1.059	1.318	1.711	2.064	2.492	2.797	3.467	3.745
25	0.000	0.684	0.856	1.058	1.316	1.708	2.060	2.485	2.787	3.450	3.725
26	0.000	0.684	0.856	1.058	1.315	1.706	2.056	2.479	2.779	3.435	3.707
27	0.000	0.684	0.855	1.057	1.314	1.703	2.052	2.473	2.771	3.421	3.690
28	0.000	0.683	0.855	1.056	1.313	1.701	2.048	2.467	2.763	3.408	3.674
29	0.000	0.683	0.854	1.055	1.311	1.699	2.045	2.462	2.756	3.396	3.659
30	0.000	0.683	0.854	1.055	1.310	1.697	2.042	2.457	2.750	3.385	3.646
40	0.000	0.681	0.851	1.050	1.303	1.684	2.021	2.423	2.704	3.307	3.551
60	0.000	0.679	0.848	1.045	1.296	1.671	2.000	2.390	2.660	3.232	3.460
80	0.000	0.678	0.846	1.043	1.292	1.664	1.990	2.374	2.639	3.195	3.416
100	0.000	0.677	0.845	1.042	1.290	1.660	1.984	2.364	2.626	3.174	3.390
1000	0.000	0.675	0.842	1.037	1.282	1.646	1.962	2.330	2.581	3.098	3.300
z	0.000	0.674	0.842	1.036	1.282	1.645	1.960	2.326	2.576	3.090	3.291
	0%	50%	60%	70%	80%	90%	95%	98%	99%	99.8%	99.9%
	Confidence Level										

Lampiran 7. Pengamatan Kualitas Air

Keterangan :

- **A = Perlakuan tanpa pemberian minyak cengkah (sebelum)**
- **B = Perlakuan dengan pemberian minyak cengkeh (sesudah)**

7.1 Suhu

Pengamatan Harian - Suhu (°C)

Perlakuan	22 Des	23 Des	24 Des	25 Des	26 Des	27 Des	28 Des
A-1	23,9	24,2	24,0	24,4	24,8	24,6	25,0
2	23,8	24,2	24,0	24,4	24,6	24,5	24,8
3	23,7	24,1	23,9	24,3	24,6	24,5	24,8
4	23,7	24,1	23,9	24,3	24,8	24,6	25,0
5	23,8	24,1	23,9	24,4	24,8	24,5	24,8
6	23,7	24,1	23,8	24,3	24,6	24,5	24,8
7	23,7	24,1	23,9	24,4	24,8	24,5	24,9
8	23,7	24,1	23,8	24,4	24,7	24,5	24,9
9	23,7	24,1	23,9	24,3	24,6	24,4	24,8
10	23,7	24,1	23,8	24,4	24,8	24,5	24,9
Rata-Rata	**23,7**	**24,1**	**23,9**	**24,4**	**24,7**	**24,5**	**24,9**
B-1	23,8	24,2	24,0	24,3	24,6	24,5	24,8
2	23,7	24,2	24,0	24,4	24,6	24,5	24,7
3	23,8	24,3	24,1	24,5	24,7	24,5	24,8
4	24,0	24,4	24,2	24,6	24,9	24,7	24,9
5	23,8	24,1	24,0	24,4	24,6	24,5	24,9
6	23,9	24,0	23,9	24,3	24,4	24,4	24,7
7	23,8	24,2	24,1	24,5	24,7	24,4	24,9
8	23,8	24,2	24,1	24,4	24,7	24,6	24,8
9	23,7	24,1	23,9	24,3	24,5	24,4	24,7
10	23,7	24,1	23,9	24,2	24,5	24,4	24,9
Rata-Rata	**23,8**	**24,2**	**24,0**	**24,4**	**24,6**	**24,5**	**24,8**

7.2 Salinitas

Tabel Pengamatan Harian - Salinitas (ppt)

Perlakuan	22 Des	23 Des	24 Des	25 Des	26 Des	27 Des	28 Des
A-1	30	31	32	33	33	33	32
2	30	31	32	30	30	30	31
3	30	31	32	30	30	29	31
4	29	31	32	30	31	30	30
5	29	30	32	29	30	30	30
6	30	31	32	29	31	29	30
7	29	32	33	32	31	32	31
8	29	32	32	30	31	30	31
9	30	32	32	29	30	30	30
10	29	31	31	29	29	31	29
Rata-Rata	**29,5**	**31,2**	**32,0**	**30,1**	**30,6**	**30,4**	**30,5**
B-1	29	30	30	29	30	30	30
2	29	31	32	29	30	29	30
3	29	31	31	29	30	30	29
4	30	31	30	29	30	31	30
5	30	30	30	30	30	30	29
6	29	30	30	29	29	29	29
7	30	30	31	29	30	30	30
8	29	30	30	29	30	29	30
9	30	31	30	30	30	30	30
10	30	31	31	30	30	30	29
Rata-Rata	**29,5**	**30,5**	**30,5**	**29,3**	**29,9**	**29,8**	**29,6**

7.3 pH

Tabel Pengamatan Harian – pH

Perlakuan	22 Des	23 Des	24 Des	25 Des	26 Des	27 Des	28 Des
A-1	8,16	8,15	8,16	8,17	8,16	8,18	8,20
2	8,22	8,19	8,24	8,27	8,25	8,26	8,27
3	8,22	8,25	8,22	8,26	8,25	8,26	8,16
4	8,25	8,27	8,25	8,28	8,23	8,25	8,24
5	8,24	8,27	8,26	8,27	8,27	8,27	8,25
6	8,24	8,27	8,24	8,26	8,25	8,24	8,27
7	8,17	8,22	8,20	8,22	8,18	8,27	8,25
8	8,24	8,25	8,25	8,26	8,27	8,25	8,26
9	8,21	8,27	8,27	8,24	8,22	8,23	8,26
10	8,19	8,27	8,26	8,25	8,23	8,27	8,27
Rata-Rata	**8,21**	**8,24**	**8,24**	**8,25**	**8,23**	**8,25**	**8,24**
B-1	8,18	8,26	8,25	8,24	8,26	8,24	8,27
2	8,24	8,26	8,27	8,26	8,26	8,25	8,25
3	8,23	8,23	8,25	8,26	8,23	8,26	8,26
4	8,27	8,28	8,27	8,25	8,25	8,21	8,23
5	8,18	8,26	8,27	8,25	8,26	8,24	8,27
6	8,24	8,26	8,27	8,24	8,24	8,21	8,26
7	8,24	8,22	8,27	8,26	8,20	8,25	8,24
8	8,24	8,26	8,26	8,25	8,23	8,24	8,25
9	8,24	8,22	8,27	8,25	8,21	8,26	8,20
10	8,23	8,26	8,28	8,24	8,17	8,19	8,22
Rata-Rata	**8,23**	**8,25**	**8,27**	**8,25**	**8,23**	**8,24**	**8,25**

7.4 Dissolved Oxygen (DO)

Tabel Pengamatan Harian - DO (mg/L)

Perlakuan	22 Des	23 Des	24 Des	25 Des	26 Des	27 Des	28 Des
A-1	7,04	7,37	6,54	7,11	6,02	7,11	7,38
2	7,38	7,12	7,06	7,05	6,66	6,78	7,47
3	6,73	7,20	6,91	6,87	7,11	7,40	7,20
4	7,07	7,22	6,97	6,96	6,69	7,57	7,54
5	7,68	7,59	6,92	7,28	7,31	6,83	6,25
6	7,78	7,30	6,88	7,44	6,87	6,76	7,02
7	7,50	6,95	6,50	7,37	7,52	7,01	7,39
8	7,50	6,95	7,13	6,94	7,10	7,20	7,11
9	7,36	6,52	6,41	7,28	7,04	6,90	7,24
10	7,84	7,51	7,05	6,95	6,63	7,37	6,98
Rata-Rata	**7,39**	**7,17**	**6,84**	**7,13**	**6,90**	**7,09**	**7,16**
B-1	7,35	7,30	7,55	7,44	7,07	7,08	7,11
2	6,87	7,50	6,60	6,61	6,76	7,10	7,38
3	7,30	7,22	7,23	7,22	6,08	7,40	7,41
4	7,93	7,66	7,22	7,10	6,45	7,07	7,52
5	7,94	6,79	7,22	6,76	7,20	7,07	7,59
6	7,50	7,27	7,52	7,09	6,96	7,06	7,07
7	7,60	7,13	7,51	6,99	6,76	7,06	7,44
8	7,46	7,52	7,43	6,81	6,81	6,93	7,49
9	7,47	7,04	6,93	7,09	6,98	7,09	7,14
10	6,48	6,92	7,22	6,83	6,94	7,04	7,50
Rata-Rata	**7,39**	**7,24**	**7,24**	**6,99**	**6,80**	**7,09**	**7,37**

7.5 Karbondioksida (CO_2)

Tabel Pengamatan Harian - CO_2(mg/L)

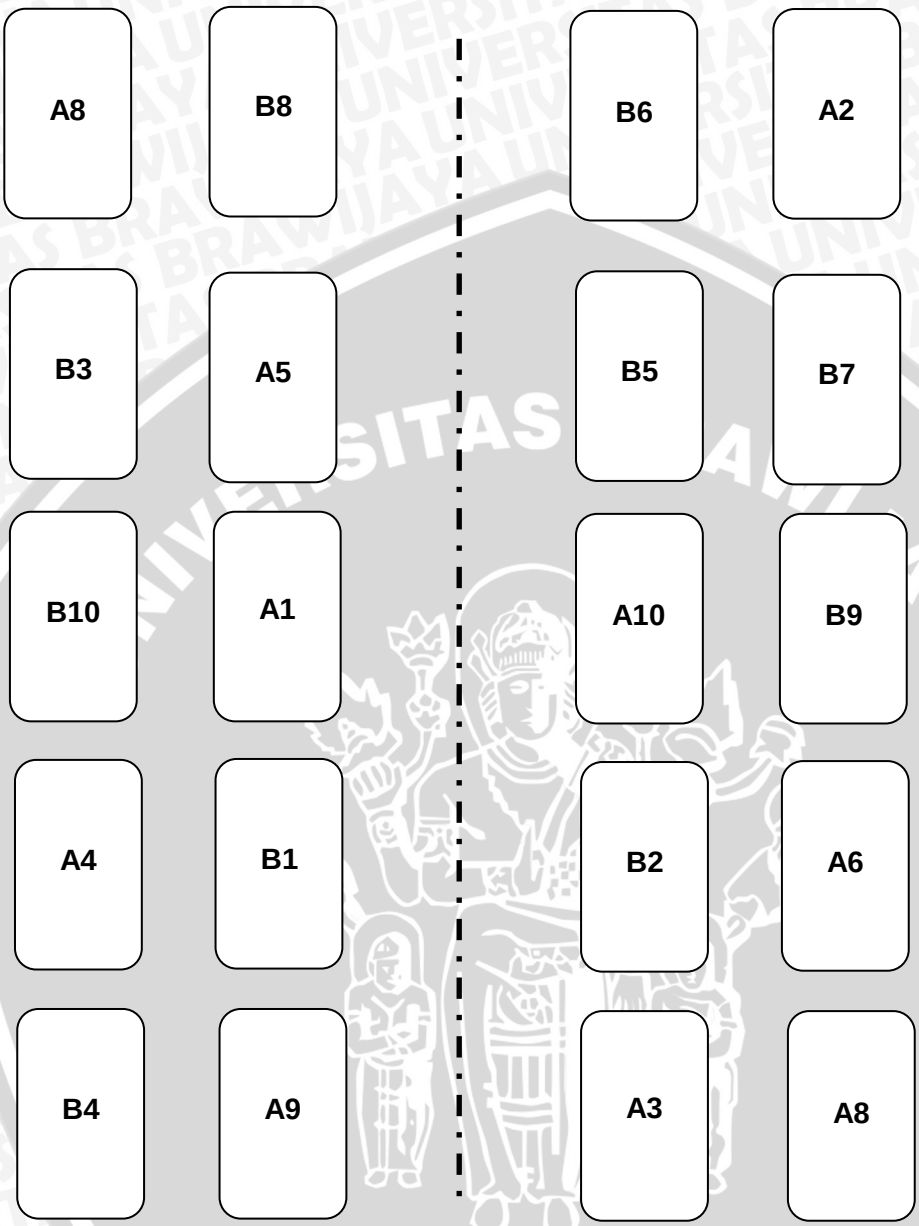
Perlakuan	22 Des	23 Des	24 Des	25 Des	26 Des	27 Des	28 Des
A-1	5,99	4,00	5,99	2,00	4,00	4,00	0,00
2	4,00	5,99	2,00	5,99	2,00	2,00	0,00
3	4,00	4,00	4,00	5,99	2,00	2,00	0,00
4	5,99	2,00	4,00	2,00	2,00	2,00	0,00
5	4,00	5,99	2,00	4,00	4,00	2,00	0,00
6	4,00	4,00	4,00	4,00	2,00	4,00	0,00
7	5,99	4,00	4,00	2,00	2,00	2,00	0,00
8	2,00	4,00	5,99	4,00	4,00	2,00	0,00
9	4,00	4,00	4,00	4,00	4,00	4,00	0,00
10	4,00	2,00	7,99	5,99	2,00	2,00	0,00
Rata-rata	**4,39**	**4,00**	**4,39**	**4,00**	**2,80**	**2,60**	**0,00**
B-1	4,00	4,00	4,00	4,00	4,00	2,00	0,00
2	4,00	7,99	5,99	5,99	2,00	2,00	0,00
3	5,99	5,99	4,00	4,00	2,00	4,00	0,00
4	2,00	4,00	2,00	2,00	2,00	2,00	0,00
5	4,00	4,00	5,99	4,00	4,00	4,00	0,00
6	4,00	2,00	4,00	5,99	4,00	2,00	0,00
7	5,99	4,00	4,00	4,00	2,00	4,00	0,00
8	4,00	5,99	4,00	2,00	4,00	2,00	0,00
9	2,00	4,00	4,00	4,00	4,00	2,00	0,00
10	5,99	2,00	2,00	2,00	2,00	4,00	0,00
Rata-rata	**4,19**	**4,39**	**4,00**	**3,80**	**3,00**	**2,80**	**0,00**

7.6 Amoniak

Tabel Pengamatan Harian - Amoniak (mg/L)

Perlakuan	22 Des	23 Des	24 Des	25 Des	26 Des	27 Des	28 Des	Rata-Rata
A-1	0,110	0,125	0,053	0,078	0,093	0,060	0,053	
2	0,046	0,018	0,103	0,064	0,085	0,014	0,011	
3	0,057	0,014	0,185	0,050	0,036	0,064	0,085	
4	0,032	0,068	0,050	0,089	0,093	0,132	0,025	
5	0,100	0,053	0,039	0,068	0,043	0,039	0,014	
6	0,103	0,068	0,117	0,068	0,032	0,014	0,039	
7	0,142	0,089	0,068	0,032	0,075	0,025	0,036	
8	------	0,057	0,128	0,068	0,018	0,110	0,007	
9	0,046	0,078	0,004	0,018	0,011	0,036	0,068	
10	0,021	0,028	0,078	0,082	0,025	0,093	0,018	
Rata-rata	**0,066**	**0,060**	**0,083**	**0,062**	**0,051**	**0,059**	**0,036**	**0,059**
B-1	0,078	0,025	0,036	0,021	0,007	0,043	0,082	
2	0,007	0,096	0,078	0,036	0,039	0,032	0,021	
3	0,057	0,075	0,014	0,014	0,068	0,011	0,004	
4	0,007	0,057	0,100	0,068	0,128	0,057	0,085	
5	0,032	0,078	0,060	0,110	0,004	0,053	0,068	
6	0,014	0,064	0,068	0,036	0,078	0,021	0,078	
7	0,039	0,050	0,007	0,093	0,025	0,053	0,028	
8	0,046	0,089	0,043	0,078	0,075	0,085	0,007	
9	0,075	0,068	0,089	0,064	0,068	------	0,021	
10	0,093	0,057	0,007	0,050	0,068	0,057	0,043	
Rata-rata	**0,045**	**0,066**	**0,050**	**0,057**	**0,056**	**0,041**	**0,044**	**0,051**

Lampiran 8. Denah Penelitian



Keterangan :

- **A = Perlakuan tanpa pemberian minyak cengkah (sebelum)**
- **B = Perlakuan dengan pemberian minyak cengkeh (sesudah)**