

SUPPLIMENTARY TABLE TITLES

Table-S 7 Correlation Matrix

Table-S 8 :Eigen values of the Correlation Matrix

Table-S 9 Eigen vectors

Table S 10: Mean with DMRT Test Result (RP) for fruit set, fruit drop, fruit retention and fruit cracking in Litchi cv .Bombai

Table S 11 : Mean with DMRT Test Result (RP) for Number of fruits per plant, total number of marketable fruits per plant, total yield per plant and total marketable yield per plant in Litchi cv .Bombai

Table S 12 Mean with DMRT Test Result (RP) for fruit and nut size of Litchi cv.Bombai in Litchi cv .Bombai

Table S13 : Mean with DMRT Test Result (RP) for fruit weight, aril weight, seed weight, pericarp weight, Aril: seed ratio and Aril: pericarp ratio in Litchi cv Bombai

Table S 14 : Mean with DMRT Test Result (RP) for Total solids ,titratable acidity, total sugar, reducing sugar and non-reducing sugar content in Litchi cv Bombai

Table S-15: Mean with DMRT Test Result (RP) for TSS :acid ratio and ascorbic acid content of Litchi cv.Bombai in Litchi cv .Bombai

SUPPLIMENTARY TABLES

Table-S 7 Correlation Matrix

	<i>Total number of fruits/pla nt</i>	<i>Total number of marketabl e fruits/pla nt</i>	Fruit Drop	Fruit retentio n	TS S	Ascorb ic Acid	Fruit Crackin g	Fruit lengt h	Fruit widt h
<i>Total number of fruits/pla nt</i>	1	0.58513	0.1691 5	0.16922	0.2773 6	0.12454	-0.07374	0.0151 9	- 0.0148 1
<i>Total number of marketabl e fruits/pla nt</i>	0.58513	1	0.1727 5	0.17277	0.6088 9	0.5336	-0.78749	0.1285 7	0.3949 9
<i>Fruit</i>	-0.16915	-0.17275	1	-1	- 0.6964	-0.59812	0.05488	0.6137 4	0.239

<i>drop</i>									
<i>Fruit retention</i>	0.16922	0.17277	-1	1	0.69621	0.59812	-0.05475	-0.61375	-0.23949
<i>TSS</i>	0.27736	0.60889	-0.6964	0.69621	1	0.93689	-0.67051	-0.08445	0.39699
<i>Ascorbic acid</i>	0.12454	0.5336	-0.59812	0.59812	0.93689	1	-0.67979	-0.00337	0.41502
<i>Fruit cracking</i>	-0.07374	-0.78749	0.05488	-0.05475	-0.67051	-0.67979	1	-0.33441	-0.66847
<i>Fruit length</i>	0.01519	0.12857	0.61374	-0.61375	-0.08445	-0.00337	-0.33441	1	0.68664
<i>Fruit width</i>	-0.01481	0.39499	0.239	-0.23949	0.39699	0.41502	-0.66847	0.68664	1

Table-S 8 :Eigen values of the Correlation Matrix

	Eigen value	Percentage of Variance	Cumulative
1	4.06255	45.14%	45.14%
2	2.86499	31.83%	76.97%
3	1.1867	13.19%	90.16%
4	0.51802	5.76%	95.91%
5	0.18924	2.10%	98.02%
6	0.12695	1.41%	99.43%
7	0.04225	0.47%	99.90%
8	0.00932	0.10%	100.00%
9	0	0.00%	100.00%

Table-S 9 Eigen vectors

<i>Variable</i>	<i>PC1</i>	<i>PC2</i>	<i>PC3</i>	<i>PC4</i>	<i>PC5</i>
<i>Total no. fruit per plant</i>	0.154	-0.015	0.817	-0.381	0.050
<i>Total no. of Marketable fruits</i>	0.356	0.173	0.420	0.337	0.091
<i>Fruit Drop</i>	-0.271	0.450	0.091	0.190	-0.002

<i>Fruit retention</i>	0.271	-0.450	-0.090	-0.189	0.000
<i>TSS</i>	0.433	-0.076	-0.111	-0.214	0.055
<i>Ascorbic Acid</i>	-0.011	-0.129	-0.255	-0.488	-0.072
<i>Fruit Cracking</i>	-0.358	-0.297	0.106	-0.381	0.007
<i>Fruit length</i>	-0.009	0.518	-0.047	-0.469	-0.594
<i>Fruit Breadth</i>	0.198	0.439	-0.236	-0.359	0.711

Table S 10: Mean with DMRT Test Result (RP) for fruit set, fruit drop, fruit retention and fruit cracking in Litchi cv.Bombai

Treatments	Treatment details	Fruit set (%)			Fruit drop (%)			Fruit retention (%)			Fruit cracking (%)		
		Mean	Rp	P	mean	Rp	p	mean	Rp	p	mean	Rp	p
T ₁	Borax @ 0.5%	53.07	3.02099	2	74.47	1.96511	2	25.53	4.63414	2	8.73	1.14387	2
T ₂	Borax @ 0.3%	53.11	3.1724	3	74.69	2.0636	3	25.32	4.8664	3	8.46	1.2012	3
T ₃	ZnSO ₄ @0.75%	52.1	3.26819	4	79.59	2.12591	4	20.41	5.01334	4	17.25	1.23747	4
T ₄	ZnSO ₄ @ 0.5%	51.88	3.33617	5	80.01	2.17013	5	19.99	5.11762	5	17.27	1.26321	5
T ₅	CaCl ₂ @ 0.5%	51.84	3.38664	6	76.7	2.20296	6	23.3	5.19504	6	12.36	1.28232	6
T ₆	CaCl ₂ @ 0.1%	51.76	3.42578	7	78.53	2.22842	7	21.47	5.25508	7	14.99	1.29714	7
T ₇	Humic Acid @ 1.5%	59.76	3.45565	8	70.19	2.24785	8	29.81	5.3009	8	20.07	1.30845	8
T ₈	Humic Acid @ 1%	58.17	3.48037	9	65.94	2.26393	9	34.07	5.33882	9	19.4	1.31781	9
T ₉	Seaweed extract @ 0.5%	51.6	3.49994	10	73.72	2.27666	10	26.28	5.36884	10	22.54	1.32522	10

T ₁₀	Seaweed extract @ 0.1%	52.7 3	3.516 42	1 1	74.1 8	2.287 38	1 1	25.8 2	5.394 12	1 1	22.1 8	1.331 46	1 1
T ₁₁	NAA (20 ppm)	53.5 3	3.529 81	1 2	74.2 9	2.296 09	1 2	25.7 1	5.414 66	1 2	24.3 1	1.336 53	1 2
T ₁₂	Control (Water Spray)	46.4 9			80.9 1			19.1			30.3 6		

*RP value calculated at 5 % level of significance

Table S 11 : Mean with DMRT Test Result (RP) for Number of fruits per plant, total number of marketable fruits per plant, total yield per plant and total marketable yield per plant in Litchi cv .Bombai

Treat ment s	Treatment details	Number of fruits per plant			Total number of marketable fruits per plant			Total yield per plant (Kg)			Total marketable yield per plant (Kg)		
		Me an	Rp	P	mean	Rp	p	me an	Rp	p	mea n	Rp	p
T ₁	Borax @ 0.5%	163 6.3 1	204. 547 4	2	1491.9 1	165.919 8	2	30. 44	4.4 874 9	2	28.1 2	3.196 97	2
T ₂	Borax @ 0.3%	185 8.0 3	214. 799 2	3	1695.0 5	174.235 6	3	38. 69	4.7 124	3	35.3 4	3.357 2	3
T ₃	ZnSO ₄ @0.75%	171 7.8	221. 285	4	1416.2 3	179.496 6	4	34. 73	4.8 546 9	4	28.6 8	3.458 57	4
T ₄	ZnSO ₄ @ 0.5%	197 2.0 8	225. 887 9	5	1622.1 4	183.230 2	5	35. 85	4.9 556 7	5	29.5 6	3.530 51	5
T ₅	CaCl ₂ @ 0.5%	162 5.6 8	229. 305 1	6	1425.0 5	186.002 2	6	31. 1	5.0 306 4	6	28.2 9	3.583 92	6
T ₆	CaCl ₂ @ 0.1%	180 1.9 4	231. 955 2	7	1518.8 5	188.151 8	7	32. 97	5.0 887 8	7	28.1 1	3.625 34	7
T ₇	Humic Acid @ 1.5%	173 0.4 2	233. 977 7	8	1421.5 1	189.792 4	8	32. 1	5.1 331 5	8	26.3 3	3.656 95	8
T ₈	Humic Acid @ 1%	186 4.9 1	235. 651 5	9	1519.2 9	191.15 9	9	34. 93	5.1 698 7	9	28.3 9	3.683 11	9
T ₉	Seaweed extract @ 0.5%	178 5.0 4	236. 976 5	10	1373.8 6	192.224 9	10	36. 41	5.1 989 4	10	26.6 8	3.703 82	10

T ₁₀	Seaweed extract @ 0.1%	183 6.7 9	238. 092 4	11	1297.6 7	193.13	11	36. 68	5.2 234 2	11	25.9 2	3.721 26	11
T ₁₁	NAA (20 ppm)	173 5.2 7	238. 999	12	1374.6 9	193.865 4	12	32. 79	5.2 433 1	12	26.0 2	3.735 43	12
T ₁₂	Control (Water Spray)	162 7.7 7			1144.1 8			29. 65			20.8 8		

*RP value calculated at 5 % level of significance

Table S 12 Mean with DMRT Test Result (RP) for fruit and nut size of Litchi cv.Bombai in Litchi cv .Bombai

Treatments	Treatment details	Fruit length (cm)			Fruit width (cm)			Nut length (cm)			Nut width (cm)		
		Mean	Rp	P	mean	Rp	p	Mean	Rp	p	mean	Rp	p
T ₁	Borax @ 0.5%	3.14	0.351 96	2	3.02	0.351 96	2	2.53	0.35 42	2	1.49	0.175 98	2
T ₂	Borax @ 0.3%	3.66	0.369 6	3	3.12	0.369 6	3	2.49	0.34 86	3	1.7	0.184 8	3
T ₃	ZnSO ₄ @0.75%	3.53	0.380 76	4	3.01	0.380 76	4	2.61	0.36 54	4	1.58	0.190 38	4
T ₄	ZnSO ₄ @ 0.5%	3.33	0.388 68	5	2.95	0.388 68	5	2.31	0.32 34	5	1.64	0.194 34	5
T ₅	CaCl ₂ @ 0.5%	3.56	0.394 56	6	3.08	0.394 56	6	2.38	0.33 32	6	1.53	0.197 28	6
T ₆	CaCl ₂ @ 0.1%	3.41	0.399 12	7	2.91	0.399 12	7	2.43	0.34 02	7	1.44	0.199 56	7
T ₇	Humic Acid @ 1.5%	3.03	0.402 6	8	2.95	0.402 6	8	2.33	0.32 62	8	1.61	0.201 3	8
T ₈	Humic Acid @ 1%	2.83	0.405 48	9	2.61	0.405 48	9	2.26	0.31 64	9	1.56	0.202 74	9
T ₉	Seaweed extract @ 0.5%	3.43	0.407 0	10	2.92	0.407 0	10	2.48	0.34 0	10	1.57	0.203 0	10

			76			76			72			88	
T ₁₀	Seaweed extract @ 0.1%	3.45	0.409 68	1 1	3.02	0.409 68	1 1	2.5	0.35	1 1	1.65	0.204 84	1 1
T ₁₁	NAA (20 ppm)	3.05	0.411 24	1 2	2.87	0.411 24	1 2	2.64	0.36 96	1 2	1.54	0.205 62	1 2
T ₁₂	Control (Water Spray)	3.27			2.66			2.85			1.73		

*RP value calculated at 5 % level of significance

Table S13 : Mean with DMRT Test Result (RP) for fruit weight, aril weight, seed weight, pericarp weight, Aril: seed ratio and Aril: pericarp ratio in Litchi cv Bombai

Treatments	Treatment details	Fruit weight (g)			Aril weight (g)			Seed weight (g)			Pericarp weight (g)			Aril :seed ratio			Aril:pericarp ratio		
		Mean	Rp	P	mean	Rp	p	mean	Rp	p	Mean	Rp	p	mean	Rp	p	Mean	Rp	p
T ₁	Borax @ 0.5%	18.91	1.495	2	14.17	1.026	2	2.65	0.234	2	2.35	0.234	2	5.35	0.791	2	6.04	0.733	2
T ₂	Borax @ 0.3%	20.85	1.570	3	16.01	1.078	3	2.19	0.246	3	2.23	0.24	3	7.31	0.831	3	7.18	0.77	3
T ₃	ZnSO ₄ @0.75%	20.39	1.618	4	14.86	1.110	4	2.45	0.253	4	2.3	0.253	4	6.07	0.567	4	6.45	0.932	4
T ₄	ZnSO ₄ @ 0.5%	18.3	1.651	5	13.07	1.133	5	2.92	0.259	5	2.28	0.259	5	4.47	0.874	5	5.75	0.975	5
T ₅	CaCl ₂ @ 0.5%	19.8	1.676	6	15.7	1.150	6	2.38	0.263	6	2.33	0.263	6	6.62	0.876	6	6.77	0.822	6
T ₆	CaCl ₂ @ 0.1%	18.59	1.696	7	14.04	1.164	7	2.81	0.266	7	2.35	0.266	7	5.07	0.980	7	5.98	0.315	7
T ₇	Humic Acid @	18.6	1.711	8	13.74	1.174	8	2.68	0.268	8	2.68	0.268	8	4.05	0.905	8	5.38	0.88	8

	1.5%	3	05		.5	25		82	4		43	4		82	85		56	75	
T ₈	Humic Acid @ 1%	18.84	1.72329		13.86	1.18265		2.65	0.27032		2.37	0.27032		5.27	0.91233		5.84	0.84475	
T ₉	Seaweed extract @ 0.5%	19.48	1.73298		13.39	1.1893		2.86	0.27184		2.4	0.27184		4.71	0.91746		5.59	0.8495	
T ₁₀	Seaweed extract @ 0.1%	20.02	1.74114		14.49	1.1949		2.57	0.27312		2.3	0.27312		5.61	0.92178		6.26	0.8535	
T ₁₁	NAA (20 ppm)	18.95	1.74775		13.48	1.19945		3.12	0.27416		2.43	0.27416		4.49	0.92529		5.64	0.85675	
T ₁₂	Control (Water Spray)	18.26			12.2			3.09			2.54			3.95			4.81		

*RP value calculated at 5 % level of significance

Table S:14 : Mean with DMRT Test Result (RP) for Total solids ,titratable acidity, total sugar, reducing sugar and non-reducing sugar content in Litchi cv Bombai

Treatments	Treatment details	TSS (° Brix)			Acidity (%)			Total Sugar (%)			Reducing sugar (%)			Non-reducing sugar (%)		
		Mean	Rp	P	mean	Rp	p	mean	Rp	p	mean	Rp	p	mean	Rp	p
T ₁	Borax @ 0.5%	14.02	1.26119	2	0.78	0.14665	2	10.12	0.99722	2	7.93	0.90923	2	2.07	0.96789	2
T ₂	Borax @ 0.3%	14.07	1.3244	3	0.72	0.154	3	10.4	1.0472	3	8.15	0.9548	3	2.14	1.0164	3
T ₃	ZnSO ₄ @0.75%	11.47	1.36439	4	0.85	0.15865	4	8.88	1.07882	4	7.01	0.98363	4	1.78	1.04709	4
T ₄	ZnSO ₄ @ 0.5%	11.98	1.39277	5	0.85	0.16195	5	8.49	1.10126	5	6.65	1.00409	5	1.75	1.06887	5
T ₅	CaCl ₂ @ 0.5%	12.7	1.41384	6	0.82	0.1644	6	9.03	1.11792	6	7.12	1.01928	6	1.82	1.08504	6
T ₆	CaCl ₂ @ 0.1%	12.	1.43	7	0.8	0.16	7	9.0	1.13	7	7.0	1.03	7	1.8	1.09	7

		55	018		2	63		2	084		8	106		4	758	
T ₇	Humic Acid @ 1.5%	13.42	1.44265	8	0.8	0.16775	8	9.88	1.1407	8	7.82	1.04005	8	1.96	1.10715	8
T ₈	Humic Acid @ 1%	13.73	1.45297	9	0.79	0.16895	9	9.98	1.14886	9	7.88	1.04749	9	2	1.11507	9
T ₉	Seaweed extract @ 0.5%	12.95	1.46114	10	0.88	0.1699	10	9.28	1.15532	10	7.27	1.05338	10	1.92	1.12134	10
T ₁₀	Seaweed extract @ 0.1%	13.22	1.46802	11	0.91	0.1707	11	9.53	1.16076	11	7.49	1.05834	11	1.94	1.12662	11
T ₁₁	NAA (20 ppm)	11.78	1.47361	12	0.93	0.17135	12	8.63	1.16518	12	6.78	1.06237	12	1.76	1.13091	12
T ₁₂	Control (Water Spray)	9.82			1			7.85			6.08			1.69		

*RP value calculated at 5 % level of significance

Table S-15: Mean with DMRT Test Result (RP) for TSS :acid ratio and ascorbic acid content of Litchi cv.Bombai in Litchi cv .Bombai

Treatments	Treatment details	TSS : acid ratio			Ascorbic acid (mg/100 g)		
		Mean	Rp	P	Mean	Rp	p
T ₁	Borax @ 0.5%	18.76	3.66625	2	32.06	0.96789	2
T ₂	Borax @ 0.3%	20.33	3.85	3	32.22	1.0164	3
T ₃	ZnSO ₄ @0.75%	14.39	3.96625	4	28.11	1.04709	4
T ₄	ZnSO ₄ @ 0.5%	14.74	4.04875	5	28.5	1.06887	5
T ₅	CaCl ₂ @ 0.5%	16.35	4.11	6	29.61	1.08504	6
T ₆	CaCl ₂ @ 0.1%	16	4.1575	7	28.72	1.09758	7
T ₇	Humic Acid @ 1.5%	17.25	4.19375	8	30.67	1.10715	8
T ₈	Humic Acid @ 1%	17.96	4.22375	9	30.56	1.11507	9
T ₉	Seaweed extract @ 0.5%	15.17	4.2475	10	30	1.12134	10
T ₁₀	Seaweed extract @ 0.1%	14.98	4.2675	11	30.11	1.12662	11
T ₁₁	NAA (20 ppm)	12.74	4.28375	12	27.83	1.13091	12

T ₁₂	Control (Water Spray)	9.99			27.06		
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*RP value calculated at 5 % level of significance