



CropBioLife

TRUSTED SOLUTION TO PLANT AND SOIL HEALTH

An introduction to CropBioLife

How CropBioLife is not just better for the plants, but better for everyone.

cropbiolife.com.au

Recommendation of CropBioLife” on Sugarcane Crop

Application number	Crop stage	Days or Month after plantation	CBL dose (ml /Liter or ml per acre)	Type of application	Benefits
1	At time sowing/plantation	0	0.5 ml/L Or 50 ml/100 L Water	Deeping of cane (seed) in CBL solution	germination, trigger, preventing soil born disease and increase root development
2	Tiller development stage	30-60 days (1-2 months)	1 ml/L or 100 mL/acre	Foliar application (low volume or ultra low volume sprayer or Drone sprayer)	Number quality and number tiller development
3	Development stage	100-150 days (4-5 months)	1 ml/L or 120 mL/acre	Foliar application (low volume or ultra low volume sprayer or Drone sprayer)	Plant growth, Leaf number, Chlorophyll content (greenery and Rate of Photosynthesis) cane development
4	Maturation stage	250-300 days (8 to 10 month)	1 ml/L or 120 mL/acre	Foliar application (low volume or ultra low volume sprayer or Drone sprayer)	Cane length, diameter and BRIX

Note: 3rd and 4th application should be done through drone system

Potential CropBioLife in Sugarcane Farmer and Sugar mill Industries

- Plant Height (17.72%)**
- Cane Height (34.98%)**
- Leaf Number (31%)**
- Tiller Number (10.64%)**
- Number of tiller per cane (14-50%)**
- Node per cane (15.64 %)**
- Internodal Distance (16.25%)**
- Cane Diameter (10.98%)**
- Sugarcane weight (41.20 %)**
- Sugarcane Biomass and Yield (20-40%)**
- BRIX (2.50-8.01%)**
- Sugarcane recovery (19.37-20.10%)**

What is CropBioLife and role in agriculture

- ❑ CropBioLife is a cutting-edge technology formulated blend of organic compounds like Bioflavonoids extracted from plants.
- ❑ CropBioLife acts on triggering the plants basic cycle of health, enhance Biological Carbon Sequestration, nutrition and drives the metabolism in plants towards perfect balance and better plant health.
- ❑ Plants performing at their best naturally are not reliant on synthetic chemical sprays which just produce unsustainable results. Phenolic compounds raise nutrient levels, help roots develop, help the plant protect itself against disease and environmental stress.
- ❑ CropBioLife will help growers meet a number of harvest-time goals (such as improved yields, better pack out ratios, higher nutrition levels, among many other benefits).
- ❑ CropBioLife Spray Boosted Photosynthesis Increased Root Exudation Absorption Boosted Atmospheric Carbon Biology Boosted Soil Health and Nutrient Uptake to Plant Increased Climate Resilience Increased Nutrition in Food Boosted Sustainable Cycle Created Tolerance Drought Increased.

The CropBioLife balance the cycle for sustainable Health of soil, plant and ecosystem

Organic Certified Natural Solution

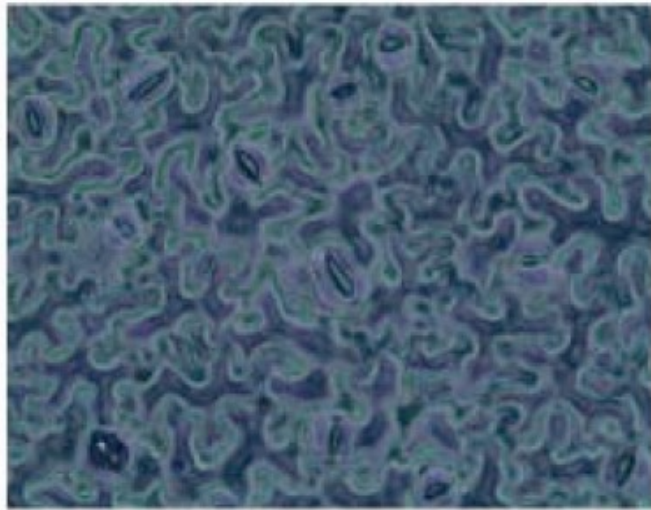


- CropBioLife is focused on building plant energy and efficient use of nutrition.
- Energy comes from more effective photosynthesis
- Nutrition comes from more effective root exudates
- Farm profit is sustainable when the plant – soil relationship is tuned to perfection.

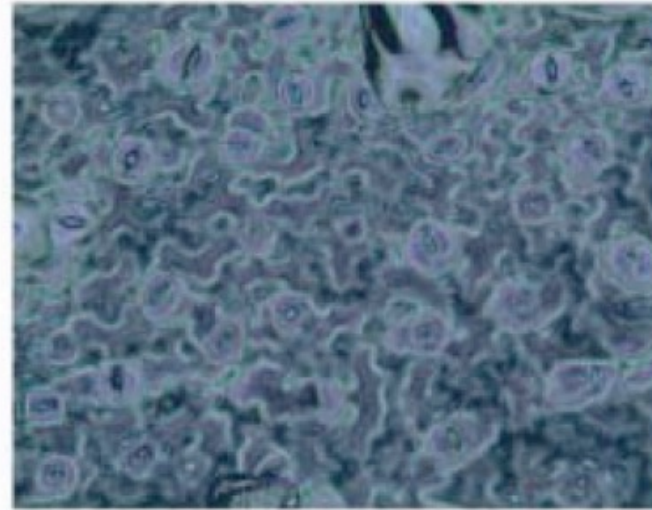
Aussan Laboratories. CropBioLife Slide 3. Copyright ©. All rights reserved.

Increase number of stomata and their efficiency for CO₂ absorption and Boost Photosynthesis Process

Untreated CONTROL

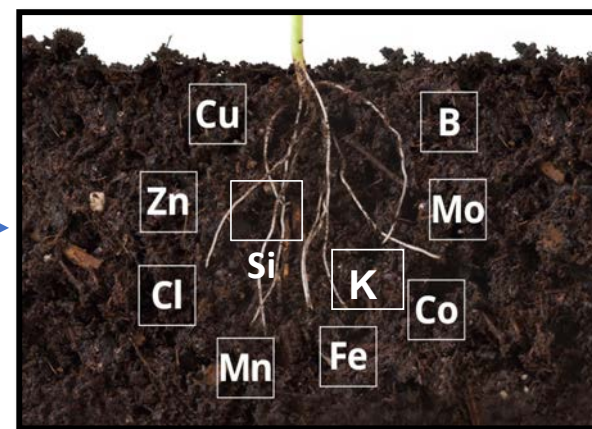


CBL Treated



Mean stomata in .048mm ²	Total Stomata	Stomata Open
Control	13.8+/- 0.6	5.5+/- 1.12
CBL treated	20.5+/- 1.65	12.3 +/- 1.82
Difference	48%	120%

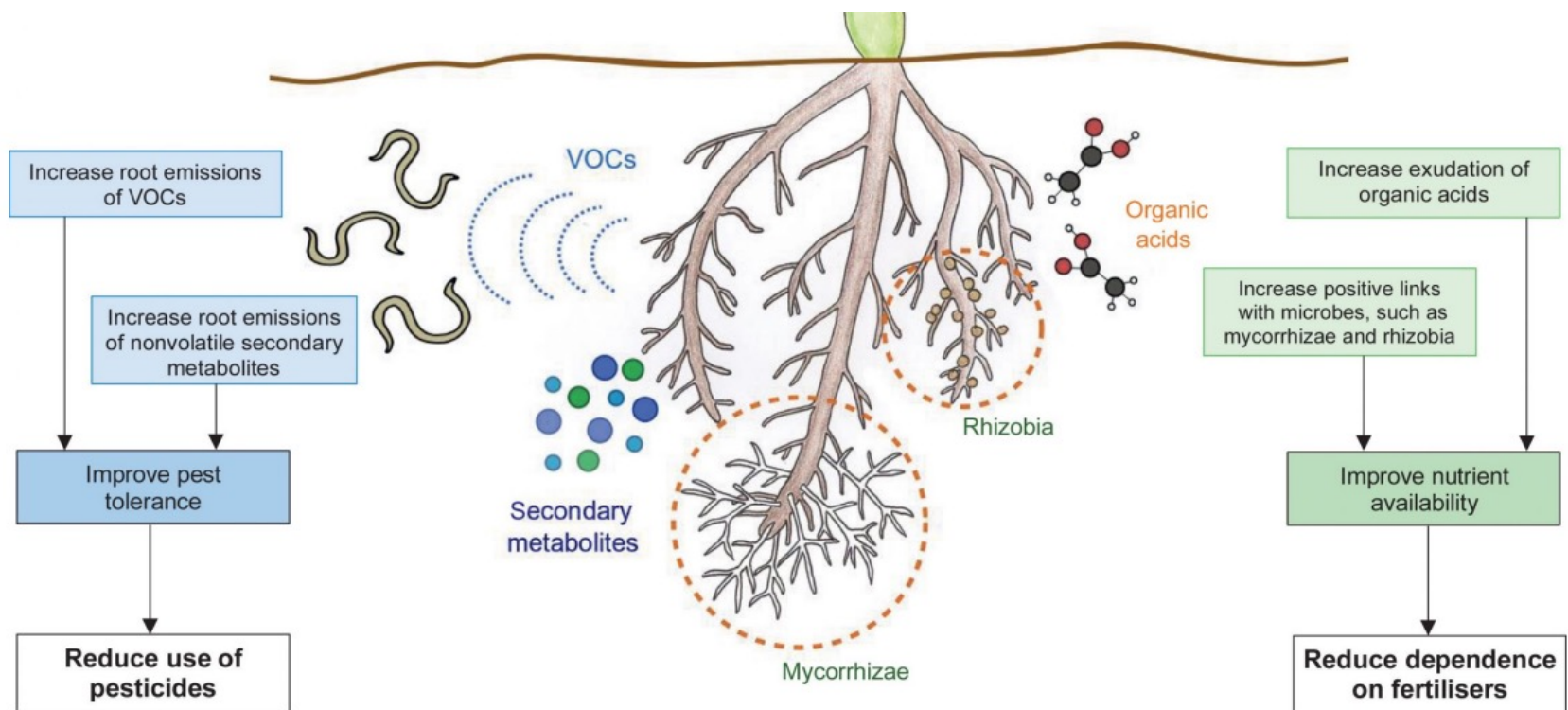
CBL working on Soil Biology and Soil Fertility



- ❑ It Helps to improve soil microbial, increases total microbial count especially mycorrhiza in soil
- ❑ Better white root growth which stimulates uptake of Si, K, P, Zn, Mg, Ca, B, and N which accelerates metabolic reactions even in abiotic condition
- ❑ Solution for better absorption of micronutrients, it help plant to tolerate stress condition

Enhances soil microbial activity symbiotic, non symbiotic relationship between plant and microbe

CBL enhance metabolism in plants, leads to more available carbohydrates means the plant can better nurture the biology in the rhizosphere soil it through improved root exudation



Increased the mycorrhizal colonization in root of CropBioLife treated plant

Microscopic photos and comments from SoilFoodweb NZ advisor.

“Massive difference in root health - much more mycorrhizae on CropBioLife roots”



Seedling treatment enhance germination, increase immunity against pest and pathogen, increases root development



Increased size and number of tillers



Untreated Control



CBL treated Plot



Increased number cane diameter and length



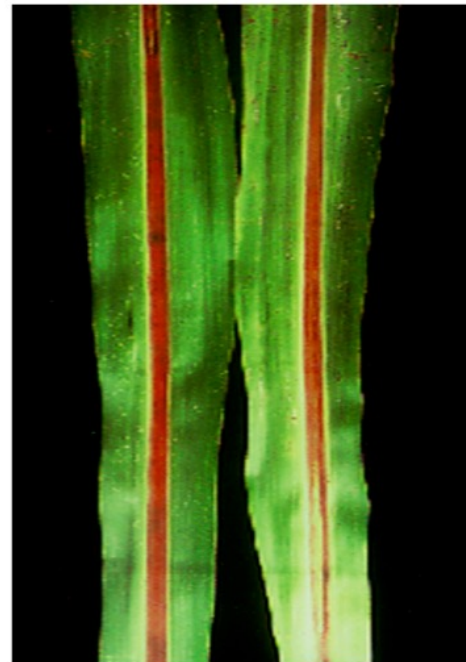
Development of immunity against plant pathogen



(a) Tiller red rot



(b) Lamina red rot

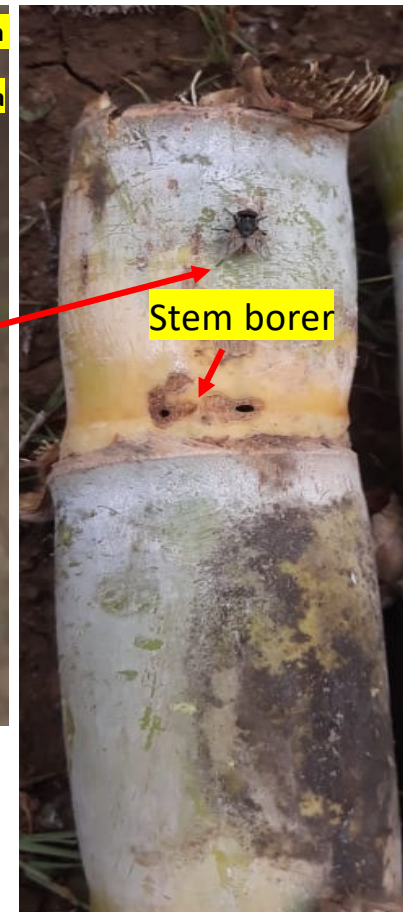


(c) Midrib red rot



(d) Stem red rot

Control plot more susceptible to disease and Pest attack



Increased BRIX content in CBL treated sugarcane by 0.4-3%



Result of CBL trial on
sugarcane crop conducted in
India

Summary of CBL trial conducted on sugarcane at Majhowlia Sugarmill, Bihar, India

S.no.	Variety	Plot no.	Juice %	Brix	Pol in juice	Purity	Recovery %
1	CO-0233	Control	59.42	14.04	8.7	61.97	3.74
		Treated	59.58	15.54	10.53	67.76	4.93
	Difference		0.16	1.5	1.83	5.79	1.19
	Difference in %age		0.26	10.68	21.03	9.34	31.82
2	COS-8005	Control	68.11	14.64	10.54	71.99	5.92
		Treated	68.89	14.54	10.85	74.62	6.33
	Difference		0.78	-0.1	0.31	2.63	0.41
	Difference in %age		1.15	-0.68	2.94	3.65	6.93
3	COS-94184	Control	57.14	17.94	13.76	76.7	6.79
		Treated	57.71	19.56	15.61	79.81	7.98
	Difference		0.57	1.62	1.85	3.11	1.19
	Difference in %age		1.00	9.03	13.44	4.05	17.53
4	CO-118	Control	64.94	15.34	11.36	74.05	6.21
		Treated	65.18	17.34	13.54	78.09	7.71
	Difference		0.24	2	2.18	4.04	1.5
	Difference in %age		0.37	13.04	19.19	5.46	24.15

**Details CBL trial on Sugarcane Crop
conducted at LokMangal Sugar factory,
Solapur, Maharashtra**

Summary_Result of CBL trial on sugarcane crop conducted at LokMangal Sugar Factory in Solapur, Maharashtra, India

Sr. No.	Taluka_Village	Farmer Name	Sugarcane Variety	Date of Plantation	Date of Application (month after plantation)		
					1	2	3
1	North Solapur_ Sirapur	Pankaj Nagnath Natake	CO_265	15-Jul-22	17-Sep-22	27-Oct-22	16-Mar-23
					2.1 (months)	3.4 (months)	8.1 (months)
2	South Solapur_ Bhandhar Kavthe	Shridamm Balgavkar	CO_265	28-Jul-22	16-Sep-22	28-Oct-22	Not Applied (NA)
					1.7 (months)	3.1 (months)	
3	North Solapur_ Lamboti	Ramchandra Waghmode	CO_265	15-Jul-22	18-Sep-22	20-Oct-22	NA
					2.2 (months)	3.2 (months)	
5	North Solapur_ Lamboti	Rajesh Waghmode	CO_265	15-Jul-22	18-Sep-22	20-Oct-22	NA
					2.2 (months)	3.2 (months)	
7	North Solapur_ Sawaleshwar	Dhanajay Chavan	CO_265	15-Jul-22	18-Sep-22	19-Oct-22	NA
					2.2 (months)	3.2 (months)	
8	North Solapur_ Bhandhar Kavthe	Shivappa Bijrangi	CO_265	06-May-22	16-Sep-22	28-Oct-22	NA
					4.3 (months)	5.8 (months)	
4	North Solapur_ Wirewade	Sudarshan Saka	CO_265	25-Jun-22	18-Sep-22	21-Oct-22	NA
					2.8 (months)	3.9 (months)	
6	North Solapur_ Sawaleshwar	Santosh Aamle	CO_265	25-Jun-22	18-Sep-22	21-Oct-22	NA

Observation summary of Sugarcane Plot

Date of observation: 16-18th March 2023

Sugarcane Plot	Treatment	Parameters						
		Plant Height (Ft)	Number of Tillers per seedlings	Number of Leaf per tiller	Number of cane per tiller	Average cane diameter (cm)	Cane length (Internode distance) cm	BRIX %
1	CBL treated	11.5	12.0	14.0	13.0	4.50	10.6	16.67
	Untreated Control	10	9.0	11.0	11.0	3.90	7.4	15.48
	Percent increased in CBL Plot	15.0	33.33	27.27	18.18	15.38	43.24	1.19
2	CBL treated	8.5	12.0	13.0	13.0	12.0	11.3	14.66
	Untreated Control	8.0	10.0	11.0	10.0	10.5	10.0	13.66
	Percent increased in CBL Plot	6.25	20.0	18.18	30.0	14.29	13.0	1.00
3	CBL treated	8.5	32.0	12.0	15.0	11.0	9.5	17.0
	Untreated Control	7.5	27.0	10.0	11.0	10.0	8.5	16.0
	Percent increased in CBL Plot	13.33	18.52	20.0	36.36	10.0	11.76	1.00
4	CBL treated	9.3	19.0	12.0	14.0	10.5	8.0	18.0
	Untreated Control	8.0	15.0	9.0	11.0	9.8	6.9	17.16
	Percent increased in CBL Plot	16.25	26.67	33.33	27.27	7.14	15.94	0.84
5	CBL treated	9.5	22.0	12.0	14.0	10.2	9.0	19.3
	Untreated Control	8.5	17.0	9.0	10.0	9.5	8.0	18.0
	Percent increased in CBL Plot	11.76	29.41	33.33	40.0	7.37	12.5	1.30
6	CBL treated	11.0	32.0	14.0	16.0	10.5	9.5	17.5
	Untreated Control	9.50	25.0	12.0	14.0	9.5	9.0	16.3
	Percent increased in CBL Plot	15.79	28.0	16.67	14.29	10.53	5.56	1.20
7	CBL treated	8.0	23.0	13.0	12.0	10.0	8.0	19.0
	Untreated Control	7.0	20.0	10.0	8.0	9.5	7.5	18.0
	Percent increased in CBL Plot	14.29	15.0	30.0	50.0	5.26	6.67	1.00
8	CBL treated	8.5	25.0	13.0	12.0	12.0	8.5	16.00
	Untreated Control	7.0	20.0	9.0	9.0	10.0	6.5	15.00
	Percent increased in CBL Plot	21.43	25.0	44.44	33.33	20.0	30.77	1.00

Sugarcane Plot 1

Farmer name and Address	Pankaj Netake, Contact number: Mob: 9765887122 At Post : Shirapur, Taluka North Solapur, District Solapur, Maharashtra, India. Lat: 17.797028, Long: 75.750393		
CROP	SUGARCANE	Area of Plantation	
VARIETY	265	2 Acre	
Date of Plantation	15 th July 2022		
Application	1 st	2 nd	3 rd
Date of Application	17 th September 2022	27 th October 2022	16 th March 2023
Month after plantation	2 month after plantation	Between 3 to 4 month after plantation	Between 8 to 9 day after plantation
Date of Observation	16 th July 2023 & 14 th August 2023		
Age of Plot	12 month		

PLOT NO 1

Farmer Name: Nagnath Natake
Village: Sirapur
District : Solapur, Maharashtra.
Contact : 9765887122
First application : 17/09/2022
Second Application : 27/10/2022
Third application : 16/03/2023
CBL Dose : 100- 120 ml per acre or 1-2 ml/L

CropBioLife treated



Untreated Control



Farmer Practice



CBL treated



Solapur, Maharashtra, India

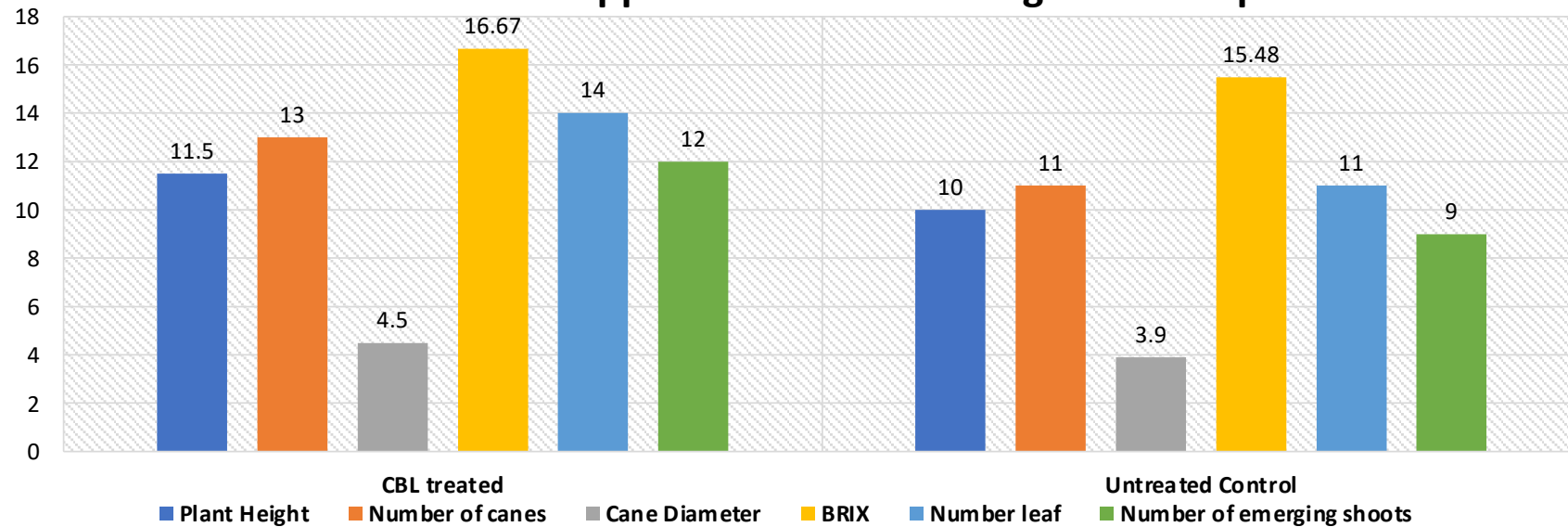
Unnamed Road, Maharashtra 413213, India

Lat 17.79048°

Long 75.721339°

25/03/23 02:11 PM GMT +05:30

Effect of foliar application of CBL on Sugarcane crop



Parameters	CBL treated	Untreated Control
Plant Height	11.5	10
Number of canes	13	11
Cane Diameter	4.5	3.9
BRIX	16.67	15.48
Number leaf	14	11
Number of emerging shoots	12	9

Date of
Observation 2nd
March 2023

Farmer Testimonial Video



Aussan employee: What is your name?

Farmer : My name Pankaj Natake

Aussan employee : From which village you are?

Farmer : Sirapur

Aussan employee : you have cultivated sugarcane? And which variety

Farmer : Yes, variety is 265

Aussan employee : when sugarcane is transplanted?

Farmer : In June

Aussan employee : Lokmangal company has given you the product Cropbiolife of Aussan laboratories . How many sprays it took?

Farmer : I took two spray .

Aussan employee : what difference makes due to two spray?

Farmer : In treated plot, Number of shoots , Height of plant , Numbers of canes and the length of canes is increased The diameter of cane (thickness) is greater. There are 12-13 number of canes within 7 months. There are 13 number of shoots are developed.

Aussan employee : what is the situation of unsprayed plot?

Farmer : There are only 8-10 number of shoots and no of canes is 8.

Aussan employee : Which plot is better?

Farmer - A sprayed plot is good. In untreated plot, there is no growth of plants.

Treated

Control



Date of
Observation
16th July 2023



Date of
Observation
16th July 2023

**30 node cane weight in gram (3x 10= 30 node)
Three sugarcane having 10 node from base of cane**





REDMI NOTE 9
AI QUAD CAMERA



GPS Map Camera

Shirapur, Maharashtra, India
Unnamed Road, Shirapur, Maharashtra 413222, India
Lat 17.796952°
Long 75.750249°
14/08/23 12:46 PM GMT +05:30



Google


Observation summary of Sugarcane Plot

Details of Sugarcane plots selected for trial conducted at Solapur District

Date of observation: 14th August 2023

Sugarcane Plot	Farmer Name	Treatment	Parameter				
			Number of tiller	Number of Node per cane	Average Internode distance cm	BRIX %	Average weight of single cane node (g)
1	Pankaj Netake	CBL treated	15	25.8	8.94	16.67	106.40
		Untreated Control	11	21.38	7.46	16.33	81.97
		Percent increased in CBL Plot	36.36	20.67	19.81	0.34	29.81

Soil sample analysis in soil science laboratory of VSI



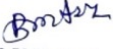
This test report pertains only to the samples actually tested at VSI Laboratory in the presented condition based on the documents / sample submitted by the customer.


VSI/CP/SS/ 5131 /2023- 24 Date : 05.09.2023

Name of Farmer : Pankaj Natke
 Name of the sample : Plot No.2 CBL control
 Number of sample : 2

Soil analysis report

Parameters	Result	Rating
pH (1: 2.5)	8.29	Moderately Alkaline
EC (dSm ⁻¹)	0.42	Good soil
Organic Carbon (%)	0.45	Moderate
Available Nitrogen (kg ha ⁻¹)	175.61	low
Available Phosphorous (kg ha ⁻¹)	16.42	Moderate
Available Potassium (kg ha ⁻¹)	615.44	Very High
Calcium Carbonate (%)	13.25	Very High
Cu (mgkg ⁻¹)	2.84	Sufficient
Fe (mgkg ⁻¹)	7.77	Sufficient
Mn (mgkg ⁻¹)	6.60	Sufficient
Zn (mgkg ⁻¹)	0.52	Deficient


 (B.V.Undre)
 Scientific Officer
 Soil Science Section



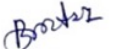
This test report pertains only to the samples actually tested at VSI Laboratory in the presented condition based on the documents / sample submitted by the customer.

VSI/CP/SS/ 5131 /2023- 24 Date : 05.09.2023

Name of Farmer : Pankaj Natke
 Name of the sample : Plot No.2 CBL Treated
 Number of sample : 1

Soil analysis report

Parameters	Result	Rating
pH (1: 2.5)	8.38	Moderately Alkaline
EC (dSm ⁻¹)	0.56	Good soil
Organic Carbon (%)	0.72	Moderately High
Available Nitrogen (kg ha ⁻¹)	188.16	low
Available Phosphorous (kg ha ⁻¹)	18.88	Moderate
Available Potassium (kg ha ⁻¹)	516.32	Very High
Calcium Carbonate (%)	13.50	Very High
Cu (mgkg ⁻¹)	2.50	Sufficient
Fe (mgkg ⁻¹)	7.00	Sufficient
Mn (mgkg ⁻¹)	6.40	Sufficient
Zn (mgkg ⁻¹)	0.62	Sufficient


 (B.V.Undre)
 Scientific Officer
 Soil Science Section

CBL treated sugarcane plot soil increase in organic content, available nitrogen, phosphorous and zinc

Sugarcane Plot 2

FARMER NAME and Address	SHRIDAMM BALKAVKAR, Contact Number : Mob 9588421007 At Post : Bhandar Kavathe, Taluka South Solapur, District Solapur, Maharashtra, India. Lat: 17.441026, Long: 75.704983	
CROP	SUGARCANE	Area of Plantation
VARIETY	COM-265	2 Acre
Date of Plantation	28th July 2022	
Date of Application	16th September 2022	28th October 2022
Month after plantation	Between 1-2 month	3 month
Date of Observation	15th July 2023 & 14th August 2023	

PLOT NO 3

Farmer Name : Shridamm Balgavkar

Village : Bhandhar kavathe

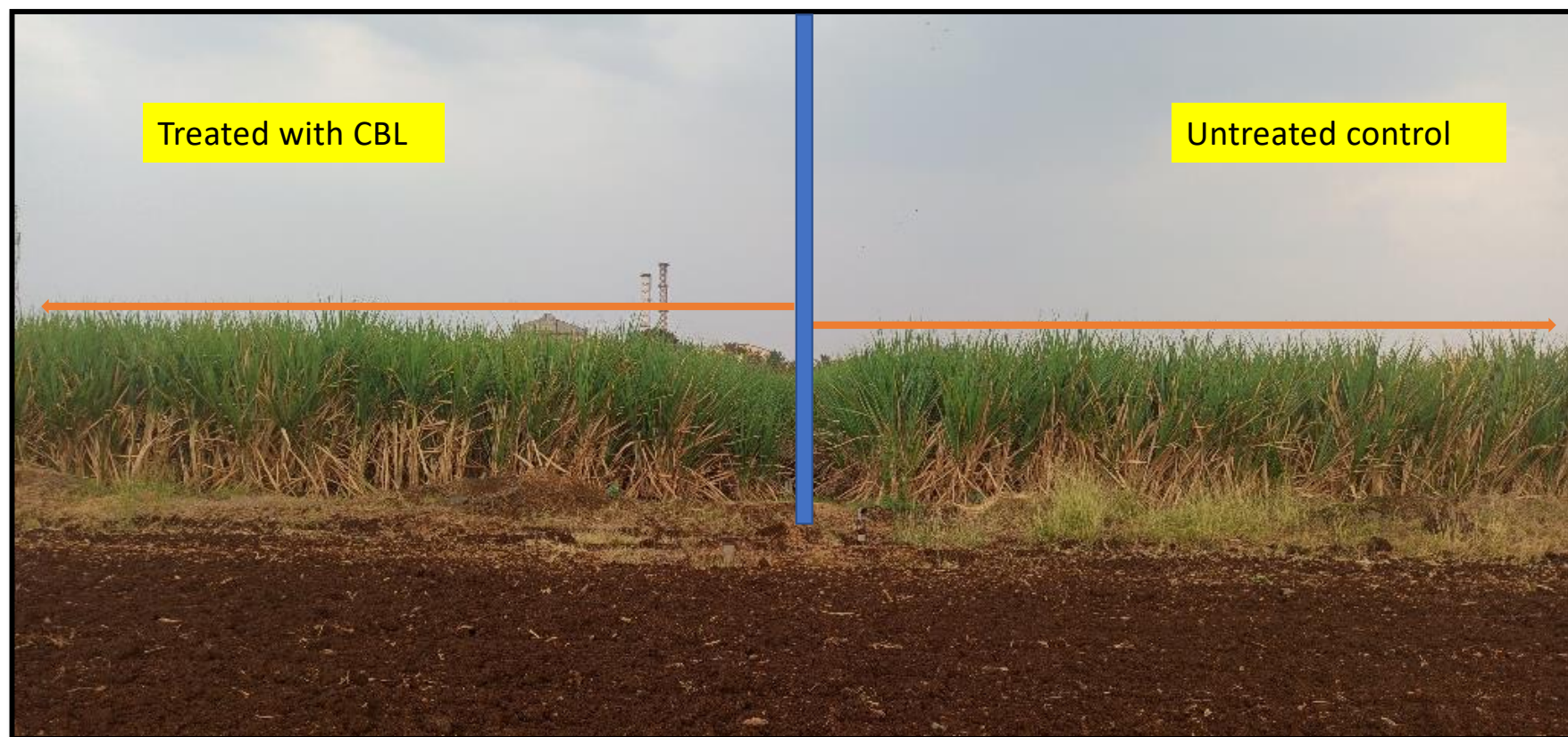
District : Solapur, Maharashtra.

Contact : 9588421007

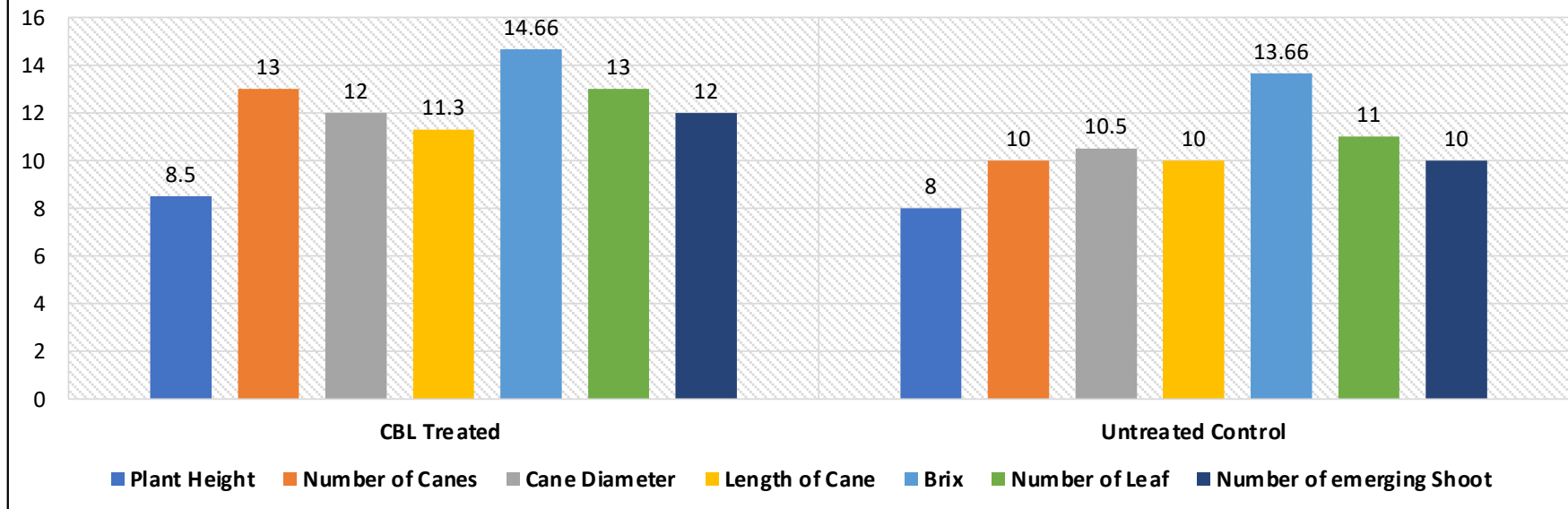
First application : 16/09/2022

Second Application : 28/10/2022

CBL Dose : 2 ml/L



Effect of foliar application of CBL on sugarcane crop



Parameters	CBL treated	Untreated Control
Plant Height (ft)	8.5	8
Number of canes	13	10
Cane Diameter	12	10.5
Length of Cane	11.3	10
BRIX	14.66	13.66
Number leaf	13	11
Number of emerging shoots	12	10

Date of observation
18 March 2023

Farmer Testimonial Video



Aussan employee: Hello, Ashwini kadam from Aussan laboratories. what is your name ?

Farmer : My name Gajanan Pujari.

Aussan employee: you have cultivated sugarcane .when sugarcane is transplanted? And which variety.

Farmer: Yes, in June and variety is 265.

Aussan employee: It has been 7-8 months Lokmangal Sugar Industry has given you the product CropBioLife of Aussan laboratories . How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: what difference makes due to two spray ?

Farmer: There are less number of canes than sprayed plot. It means 2-3 more number of canes in the sprayed plot. There are more number of canes.

Aussan employee: How many number of shoots?

Farmer: In treated plot, 12-13 number of shoot and In untreated plot, 7-8 no of shoots.

Aussan employee: Which plot is better?

Farmer: A Sprayed plot is better.

Aussan employee: Is should this product be used by other farmers?

Farmer: This product should be used.

Aussan employee: Is this product beneficial or not?

Farmer: I t is beneficial .

Aussan employee: Thank you!

Control

Treated





Observation summary of Sugarcane Plot

Details of Sugarcane plots selected for trial conducted at Solapur District

Date of observation: 14th August 2023

Farmer Name	Treatment	Parameter				
		Number of tiller	Number of Node per cane	Average Internode distance cm	BRIX %	Average weight of single cane node (g)
Shridamm Balkavakar	CBL treated	26	37	9.24	18.46	101.47
	Untreated Control	24	32	7.23	17.40	83.43
	Percent increased in CBL Plot	8.33	15.625	27.67	1.06	21.61

Phone : (020) 26902100 - 30 lines
 Fax : (020) 26902244
 E-mail : admin@vsisugar.org.in
 Web site : www.vsisugar.com



VASANTDADA SUGAR INSTITUTE
 Manjari (Bk.) Tal. : Haveli, Dist. : Pune - 412 307, Maharashtra, India.

TEST REPORT

Test Report No./Sr.No	: ST-2023-0315/ (0384)
ULR	: -
Sample UIN/ Code no.	: ST-2023-0375, ST-2023-0377
Name of Laboratory (VSI) & Location where tests performed	: Sugar Laboratory (Sugar Technology Department)
Name and Address of customer	: Head of Research and Development, Aussan Laboratories India Pvt. Ltd.Near Tahasil haveli, S-No.114/2, Achal Leela Darshan,Baner Road, Pune- 411043
Sample type/description	: Sugar Cane Sample, Name of Farmer – Shridamm Balgavkar Sample No.02, Plot No.2, Crop BioLife Treated Sample No.04, Plot No.2, Untreated Control
Sampling location and sampling plan (if applicable)	: Not Applicable
Date of sampling (If applicable)	: Not Applicable
Date of Receipt	: 19/08/2023
Date of Analysis	: 19/08/2023

Sr. No.	Test Parameter	Test Value		Unit	Test Method
		Sugar Cane Sample, Name of Farmer – Shridamm Balgavkar Sample No.02, Plot No.2, Crop BioLife Treated	Sample No.04, Plot No.2, Untreated control		
1	Brix	18.46	17.46	%	System of Technical Control By N. C. Verma
2	Pol	15.64	14.19	%	
3	Purity	84.72	81.27	%	
4	Bagasse Pol	8.22	8.27	%	
5	Bagasse Moisture	52.30	53.12	%	
6	Expected Recovery	9.26	8.22	%	
7	Reducing Sugar	0.88	1.29	%	

Remark (If any): NA
 Report Date: 21/08/2023



Authorized Signatory: Name and Designation
(Signature)
 Mr. L.S.Dalvi
 (Technical Manager)

Note: The above test values are related only to the item tested
 The test report shall not reproduced in full without approval of the Laboratory
 -----End of Test Report-----


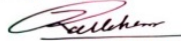
Reply to be sent on the name of Institute and not on individual's name.

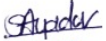
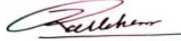
Cane analysis result of VSI Laboratories

Increased BRIX %	1.01
Increased Pol %	1.45
Increased Purity	3.45
Increased Bagasse Pol %	-0.05
Decreased Bagasse Moisture %	-0.82
Increased Expected Recovery %	1.04
Decreased reducing Sugar %	-0.41

Overall analysis indicate the improved BRIX a content, sucrose content, their purity, more sucrose extracted from bagasse, lower rate sucrose to reducing sugar hydrolysis rate

Soil sample analysis in MRDBS laboratory

MAHARASHTRA RAJYA DRAKSHA BAGAITDAR SANGH, PUNE				
Research & Training Center Manjri Farm Laboratory Pune – 412 307 E-mail: mrdbslab@yahoo.in				
Issued to:	Shridamm Balgavka		Date :	02.09.2023
A/P:	Pune	Lab. No.	653	Mob. No. 9623467646
Dist.:	Sample received in Lab 31.08.2023			
Identification :	Sugarcane- CBL Untreated			
SOIL ANALYSIS REPORT				
Parameter (Methods)	Unit	Optimum level	Analysis Value	Remark
pH (1:2.5 water) (साम्)	--	6.51 – 7.50	7.41	Optimum
E.C. (1:2.5 water) (विद्युत वाहकता)	dSm ⁻¹	< 1.00	0.58	Safe
CaCO ₃ (Titration) (टुना)	%	1.01 – 3.00	3.96	High
Organic carbon (Walkley & Black) (सैदीय कर्ब)	%	0.41 – 0.60	0.40	Low
Primary Nutrient				
Av. N (Alkaline KMnO ₄ method) (उपलब्ध नत्र)	Kg / ha	281 – 420	128	Low
NO ₃ – N (नायट्रेट - नत्र)	ppm	10 – 20	14.18	Optimum
Av. P (Olsen Method) (उपलब्ध स्फुरद)	Kg / ha	30.00 – 50.0	116	High
Av. K (NH ₄ - Ac) (उपलब्ध पालाश)	Kg / ha	181 – 240	412	High
Secondary Nutrient				
Av. Calcium (कैल्शियम)	ppm	1001 – 1500	3363	High
Av. Magnesium (मैग्नेशियम)	ppm	501 – 750	1218	High
Av.S.(Barium Chloride Turbidimetry) (सल्फर)	ppm	21 – 50	279	High
Micronutrients				
Av. Fe (DTPA Extr. – AAS) (लोह)	ppm	2.01 – 4.50	3.49	Optimum
Av. Mn (DTPA Extr. – AAS) (मंगल)	ppm	1.01 – 2.00	24.15	High
Av. Zn (DTPA Extr. – AAS) (जस्त)	ppm	0.51 – 1.00	0.84	Optimum
Av. Cu (DTPA Extr. – AAS) (तांबे)	ppm	0.21 – 1.00	2.15	High
Other parameters				
Extr. Na (NH ₄ - Ac) (सोडियम)	ppm	< 1000	378	Safe
Boron (Hot Water) (बोरॉन)	ppm	0.3 – 0.5	0.22	Low
Extr. HCO ₃ (बायकार्बोनेट)	ppm	180 – 250	103	Low
Extr. Cl ⁻ (Mohr's method) (क्लोराईड)	ppm	< 100	120	Unsafe
Low (कमी); Optimum (योग्य); High (जस्त)				
 Yadav S. A. Analyzed By		 Laboratory Incharge		

MAHARASHTRA RAJYA DRAKSHA BAGAITDAR SANGH, PUNE				
Research & Training Center Manjri Farm Laboratory Pune – 412 307 E-mail: mrdbslab@yahoo.in				
Issued to:	Shridamm Balgavka		Date :	02.09.2023
A/P:	Pune	Lab. No.	654	Mob. No. 9623467646
Dist.:	Sample received in Lab 31.08.2023			
Identification :	Sugarcane- CBL Treated			
SOIL ANALYSIS REPORT				
Parameter (Methods)	Unit	Optimum level	Analysis Value	Remark
pH (1:2.5 water) (साम्)	--	6.51 – 7.50	7.69	Alkaline
E.C. (1:2.5 water) (विद्युत वाहकता)	dSm ⁻¹	< 1.00	0.56	Safe
CaCO ₃ (Titration) (टुना)	%	1.01 – 3.00	7.92	High
Organic carbon (Walkley & Black) (सैदीय कर्ब)	%	0.41 – 0.60	0.44	Optimum
Primary Nutrient				
Av. N (Alkaline KMnO ₄ method) (उपलब्ध नत्र)	Kg / ha	281 – 420	141	Low
NO ₃ – N (नायट्रेट - नत्र)	ppm	10 – 20	19.18	Optimum
Av. P (Olsen Method) (उपलब्ध स्फुरद)	Kg / ha	30.00 – 50.0	35.95	Optimum
Av. K (NH ₄ - Ac) (उपलब्ध पालाश)	Kg / ha	181 – 240	457	High
Secondary Nutrient				
Av. Calcium (कैल्शियम)	ppm	1001 – 1500	2925	High
Av. Magnesium (मैग्नेशियम)	ppm	501 – 750	1175	High
Av.S.(Barium Chloride Turbidimetry) (सल्फर)	ppm	21 – 50	512	High
Micronutrients				
Av. Fe (DTPA Extr. – AAS) (लोह)	ppm	2.01 – 4.50	2.13	Optimum
Av. Mn (DTPA Extr. – AAS) (मंगल)	ppm	1.01 – 2.00	10.15	High
Av. Zn (DTPA Extr. – AAS) (जस्त)	ppm	0.51 – 1.00	0.86	Optimum
Av. Cu (DTPA Extr. – AAS) (तांबे)	ppm	0.21 – 1.00	1.88	High
Other parameters				
Extr. Na (NH ₄ - Ac) (सोडियम)	ppm	< 1000	459	Safe
Boron (Hot Water) (बोरॉन)	ppm	0.3 – 0.5	0.21	Low
Extr. HCO ₃ (बायकार्बोनेट)	ppm	180 – 250	26	Low
Extr. Cl ⁻ (Mohr's method) (क्लोराईड)	ppm	< 100	67	Safe
Low (कमी); Optimum (योग्य); High (जस्त)				
 Yadav S. A. Analyzed By		 Laboratory Incharge		

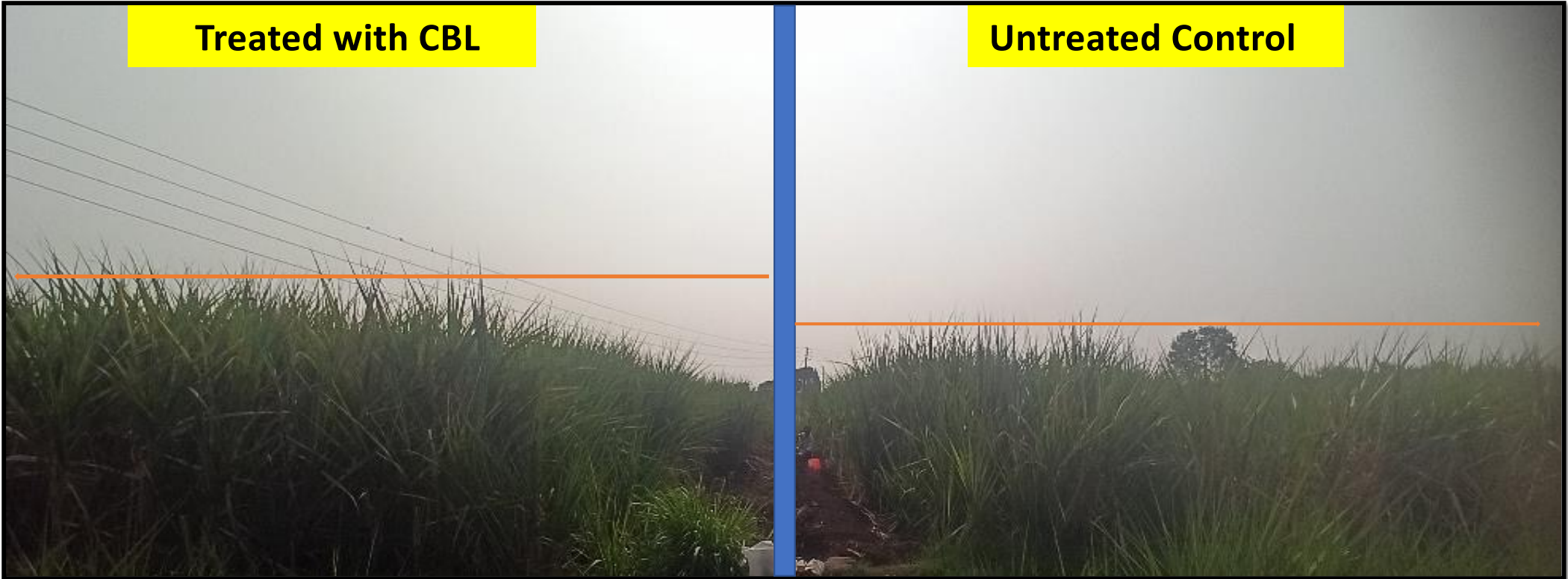
**CBL treated sugarcane plot
soil increase in organic
content**

PLOT NO 3

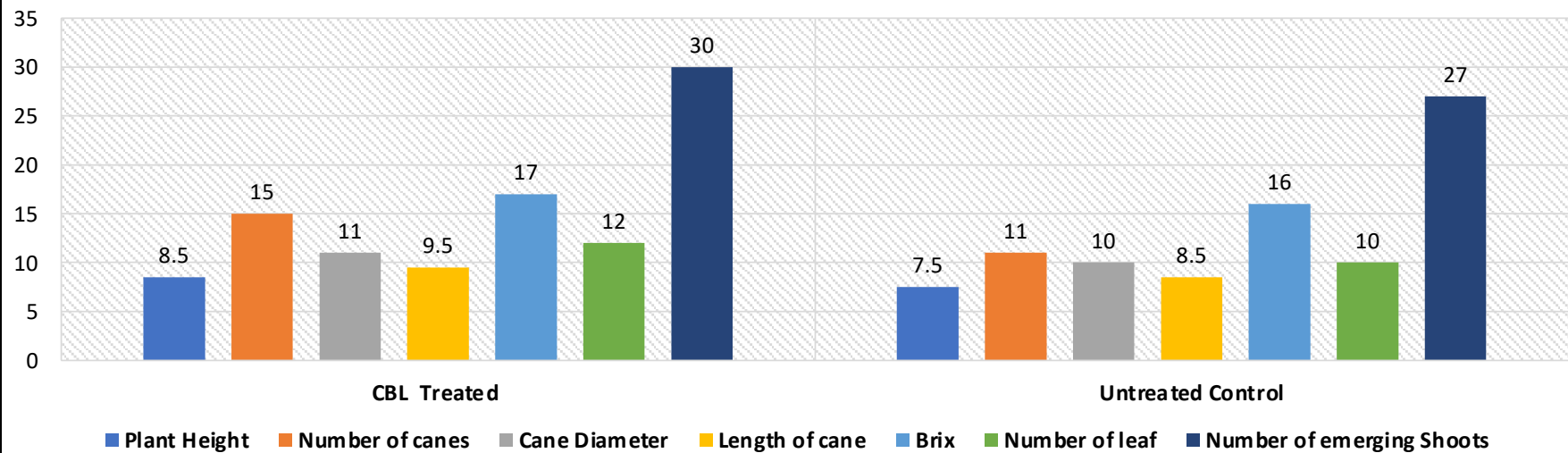
Farmer Name: Ramchandra Waghmode
Village: Lamboti
District : Solapur, Maharashtra.
Contact: 9922408576
First application: 18/9/2022
Second Application: 20/10/2022
CBL Dose - 100-120 ml acre or 1-2 ml/L

Treated with CBL

Untreated Control



Effect of foliar application of CBL on sugarcane crop



Parameters	CBL treated	Untreated Control
Plant Height (ft)	8.5	7.5
Number of canes	15	11
Cane Diameter	11	10
Length of Cane	9.5	8.5
BRIX	17	16
Number leaf	12	10
Number of emerging shoots (5ft)	32	27

**Date of observation
16-Mar-2023**

Farmer Testimonial Video



Aussan employee: Hello, Ashwini Kadam from Aussan laboratories. what is your name?

Farmer : My name Ramchandra Waghmode

Aussan employee: you have cultivated sugarcane .when sugarcane is transplanted ? And which variety.

Farmer : yes , in July and variety is 265,

Aussan employee: Lokmangal company has given you the product CropBioLife of Aussan laboratories. How many sprays it took?

Farmer : Yes, I took two spray .

Aussan employee: what difference makes due to two spray?

Farmer: In treated plot, Number of shoots , Height of plant, Numbers of canes and the Thickness of canes is increased . In sprayed plot, there are 14 number of canes and in unsprayed plot, there are 10 number of canes.

Aussan employee: How many number of shoots ?

Farmer: 30-31 .. And in untreated plot there are 18-20.

Aussan employee : Which plot is better?

Farmer : A sprayed plot is better. This product should be used by other farmer. It may be increasing yield, I think

Aussan employee : Is this product beneficial or not?

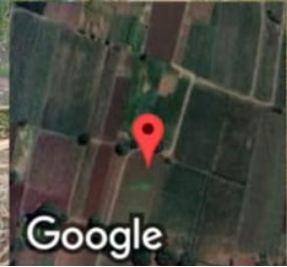
Farmer : It is beneficial .

Aussan employee: Thank you!



Control

CBL



Lamboti, Maharashtra, India
Unnamed Road, Lamboti, Maharashtra 413213, India
Lat 17.786841°
Long 75.726887°
11/11/23 04:34 PM GMT +05:30

PLOT NO 4

Farmer Name : Sudarshan Saka
Village : Wirewade
District : Solapur, Maharashtra.
Contact : 9359040583
First application : 18/09/2022
Second Application : 21 /10/2022
CBL Dose : 2 ml/L

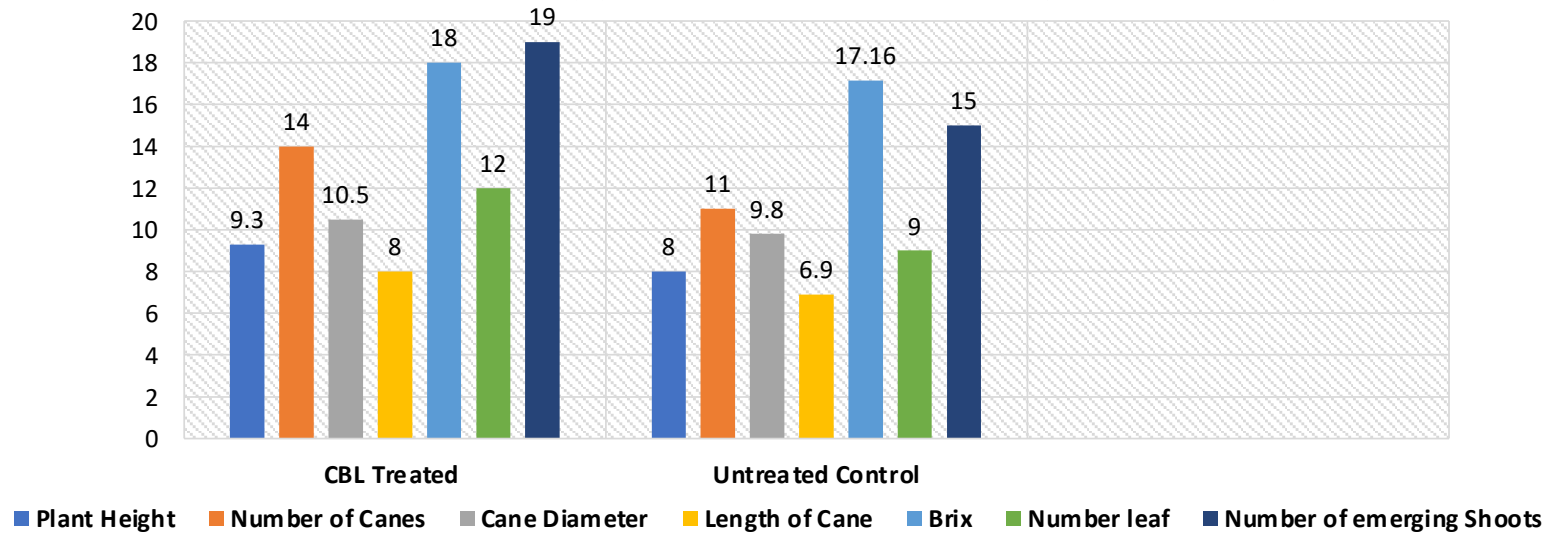
Treated with CBL



Untreated Control



Effect of foliar application of CBL on sugarcane crop



Parameters	CBL treated	Untreated Control
Plant Height (ft)	9.3	8
Number of canes	14	11
Cane Diameter	10.5	9.8
Length of Cane	8	6.9
BRIX	18	17.16
Number leaf	12	9
Number of emerging shoots (5ft)	19	15

Date of observation
17 March 2023

Farmer Testimonial Video



Aussan Laboratories Employee: Hello, Ashwini Kadam from Aussan laboratories, what is your name?

Farmer: My name Mahesh Bhore.

Aussan employee: You have cultivated sugarcane, when sugarcane is transplanted? and which variety.

Farmer: Yes, in June and variety is 265.

Aussan employee : It has been 8-9 months. Lokmangal company has given you the product CropBioLife of Aussan laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: What difference makes due to two spray?

Farmer: In treated plot, number of shoots, height of plant, numbers of canes and the thickness of canes is increased.

Aussan employee: How many number of shoots?

Farmer: 20.

Aussan employee: and number of canes?

Farmer: 14-15.

Aussan employee: What is the situation of unsprayed plot?

Farmer: There are 10 number of shoots and 10-11 number of cane

Aussan employee: Which plot is better?

Farmer: A sprayed plot is good.

Aussan employee: Is Should this product be used by other farmers?

Farmer: This product should be used.

Aussan employee: Is this product beneficial or not?


Farmer: It is beneficial.

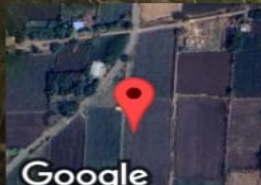
Aussan employee: Thank you!



CBL

Control

 **GPS Map Camera**



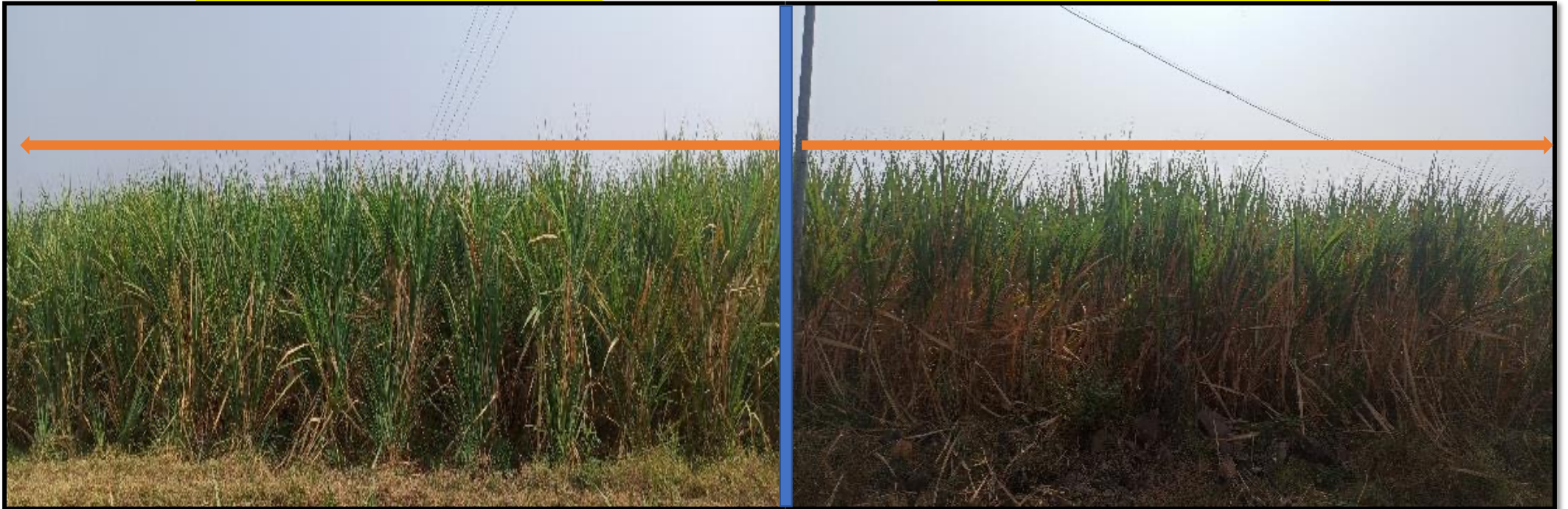
Wirwade Kh, Maharashtra, India
PPHX+5RR, Wirwade Kh, Maharashtra 413213, India
Lat 17.727171°
Long 75.75005°
16/11/23 04:33 PM GMT +05:30

PLOT NO 5

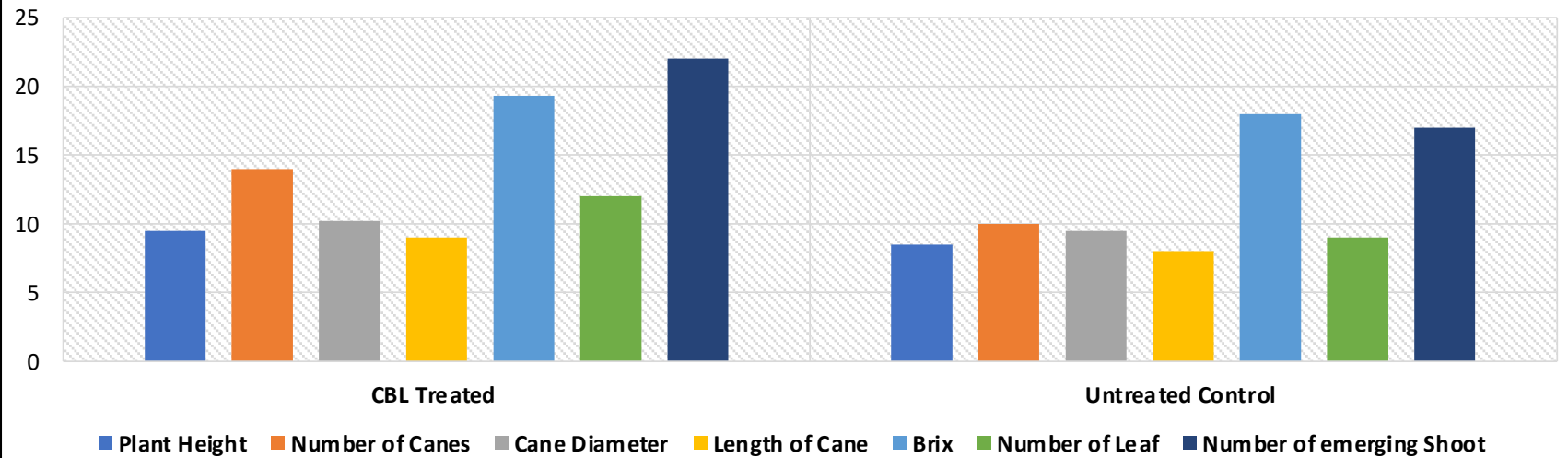
Farmer Name: Rajesh Waghmode
Village: Lamboti
District Solapur, Maharashtra.
Contact: 8459247474
First application: 18/09/2022
Second Application: 20/10/2022
CBL Dose: 2 ml/L

Treated with CBL

Untreated Control



Effect of foliar application of CBL on Sugarcane crop



Parameters	CBL treated	Untreated Control
Plant Height (ft)	9.5	8.5
Number of canes	14	10
Cane Diameter	10.2	9.5
Length of Cane	9	8
BRIX	19.3	18
Number leaf	12	9
Number of emerging shoots (5ft)	22	17

Date of observation
17 March 2023

Farmer Testimonial Video



Aussan employee: Hello, Ashwini kadam from Aussan laboratories. what is your name ?

Farmer: My name **Rajesh Waghmode.**

Aussan employee: You have cultivated sugarcane .when sugarcane is transplanted ? And which variety

Farmer: **Yes, in June and variety is 265.**

Aussan employee: Lokmangal company has given you the product CropBiolife of Aussan laboratories. How many sprays it took?

Farmer: **Yes, I took two spray.**

Aussan employee: What difference makes due to two spray?

Farmer: **In treated plot, number of shoots, height of plant, numbers of canes and the thickness of canes is increased.**

Aussan employee: How many number of shoots?

Farmer: **20-22.**

Aussan employee: And Number of canes?

Farmer: **10-12.**

Aussan employee: What is the situation of unsprayed plot?

Farmer: **There are 7-8 number of shoots and 5-6 Number of cane.**

Aussan employee : Is should this product be used by other farmers?

Farmer: **This product should be used.**

Aussan employee: Is this product beneficial or not?

Farmer: **It is beneficial.**

Aussan employee: Thank you!



Control

Treated

Control

CBL

PLOT NO 6

Farmer Name : Santosh Aamle
Village : Sawaleshwar
District : Solapur, Maharashtra.
Contact : 7028160441
First application : 18/09/2022
Second Application : 21 /10/2022
CBL Dose : 2 ml/L

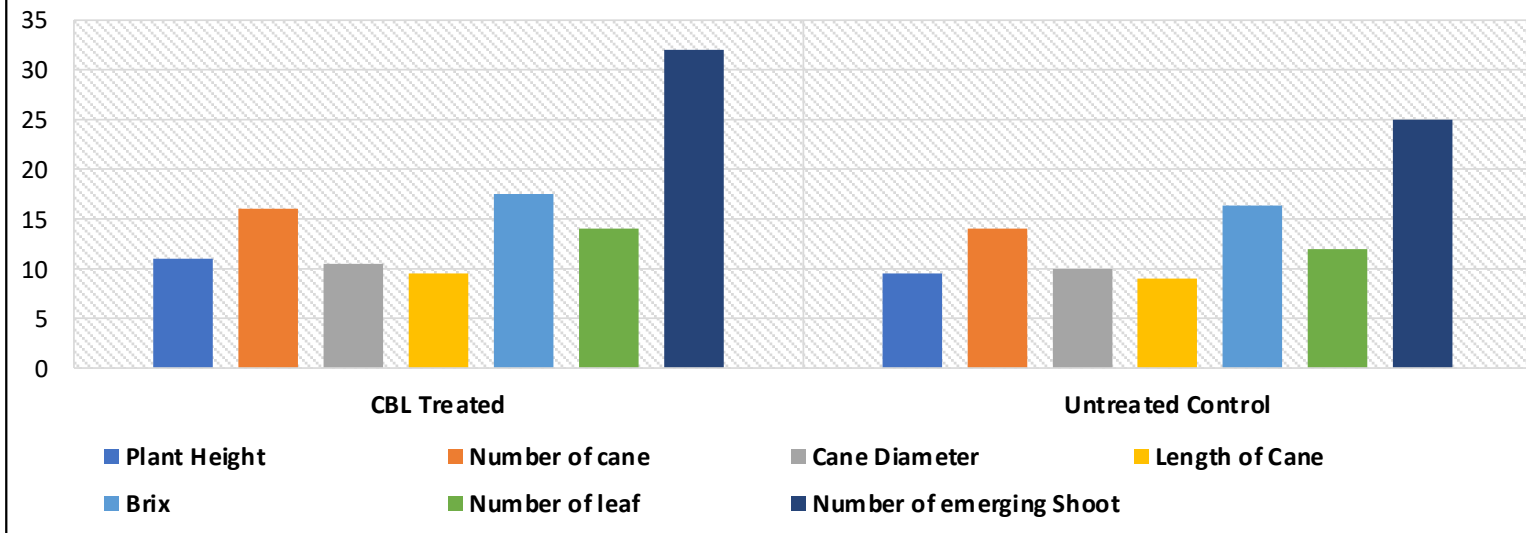
Treated with CBL



Untreated Control



Effect of foliar application of CBL on Sugarcane crop



Parameters	CBL treated	Untreated Control
Plant Height (ft)	11	9.5
Number of canes	16	14
Cane Diameter	10.5	9.5
Length of Cane	9.5	9
BRIX	17.5	16.3
Number leaf	14	12
Number of emerging shoots (5ft)	32	25

Date of observation
17 March 2023

Farmer Testimonial Video



Aussan employee: Hello, Ashwini kadam from Aussan laboratories. what is your name?

Farmer: My name Dhananjay Chavan from Sawaleshwar.

Aussan employee: you have cultivated sugarcane .when sugarcane is transplanted? And which variety.

Farmer: Yes, in August and variety is 265 , 86032. I took two spray on both of variety.

Aussan employee: Lokmangal company has given you the product CropBioLife of Aussan laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: what is difference between sprayed and not sprayed plot?

Farmer: In Treated plot, There are 12-14 number of canes and in Untreated plot , there are 9-10 number of canes. And number of shoot is higher than not sprayed plot. There are 20-23 number of shoots are developed, and in untreated plot, there are 14-15 number of shoots.

Aussan employee: Is this product beneficial or not ? Should this product be used by other farmers ?

Farmer: It is beneficial. This product should be used.

Aussan employee: Thank you!



Control

CBL treated

PLOT NO 8

Farmer Name: Shivappa Bijrangi
Village: Bhandhar kavathe
District: Solapur, Maharashtra.
Contact: 7028160441
First application: 16/09/2022
Second Application: 28/10/2022
CBL Dose: 2 ml/L

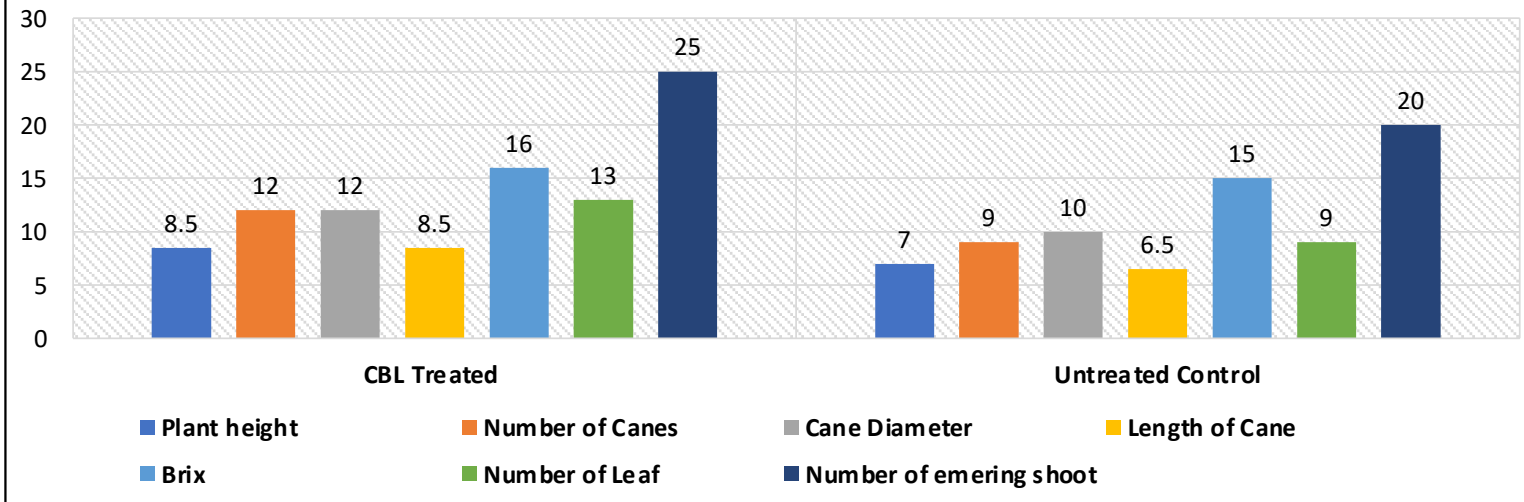
Treated with CBL



Untreated Control



Effect of foliar application of CBL on sugarcane crop



Parameters	CBL treated	Untreated Control
Plant Height (ft)	8.5	7
Number of canes	12	9
Cane Diameter	12	10
Length of Cane	8.5	6.5
BRIX	16	15
Number leaf	13	9
Number of emerging shoots (5ft)	25	20

Date of observation
18 March 2023

Note: Farmer is not available. So review is not recorded.



Treated

Control

GPS Map Camera



Bhandar Kavade, Maharashtra, India
Unnamed Road, Bhandar Kavade, Balgi, Maharashtra 413221, India
Lat 17.430082°
Long 75.711708°
19/11/23 04:51 PM GMT +05:30

Farmer Testimonial Video



Aussan employee: Hello, Ashwini kadam from Aussan laboratories.
what is your name?

Farmer: My name Santosh Aamle.

Aussan employee: you have cultivated sugarcane, when sugarcane is transplanted ? And which variety.

Farmer: Yes , in August and variety is 265.

Aussan employee: Lok Mangal company has given you the product CropBioLife of Aussan laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: What is difference between sprayed and not sprayed plot ?

Farmer: Number of cane is increased the diameter of cane (thickness) is greater.
Difference in growth.

Aussan employee: How many number of shoots?

Farmer: In treated plot, there are 30-32 number of shoot . In untreated plot, 25-27 No of shoot.

Aussan employee : And Number of canes?

Farmer: In Treated plot , there are 16-17 number of canes. In untreated plot, 14 number of canes.

Aussan employee: Which plot is better?

Farmer: A sprayed plot is good.

Aussan employee: Is this product beneficial or not ?. Should this product be used by other farmers?

Farmer: It is beneficial. This product should be used.

Aussan employee: Thank you!

PLOT NO 7

Farmer Name: Dhananjay Chavan
Village: Sawaleshwar
District: Solapur, Maharashtra.
Contact: 8007867225
First application: 18/09/2022
Second Application: 19 /10/2022
CBL Dose: 2 ml/L

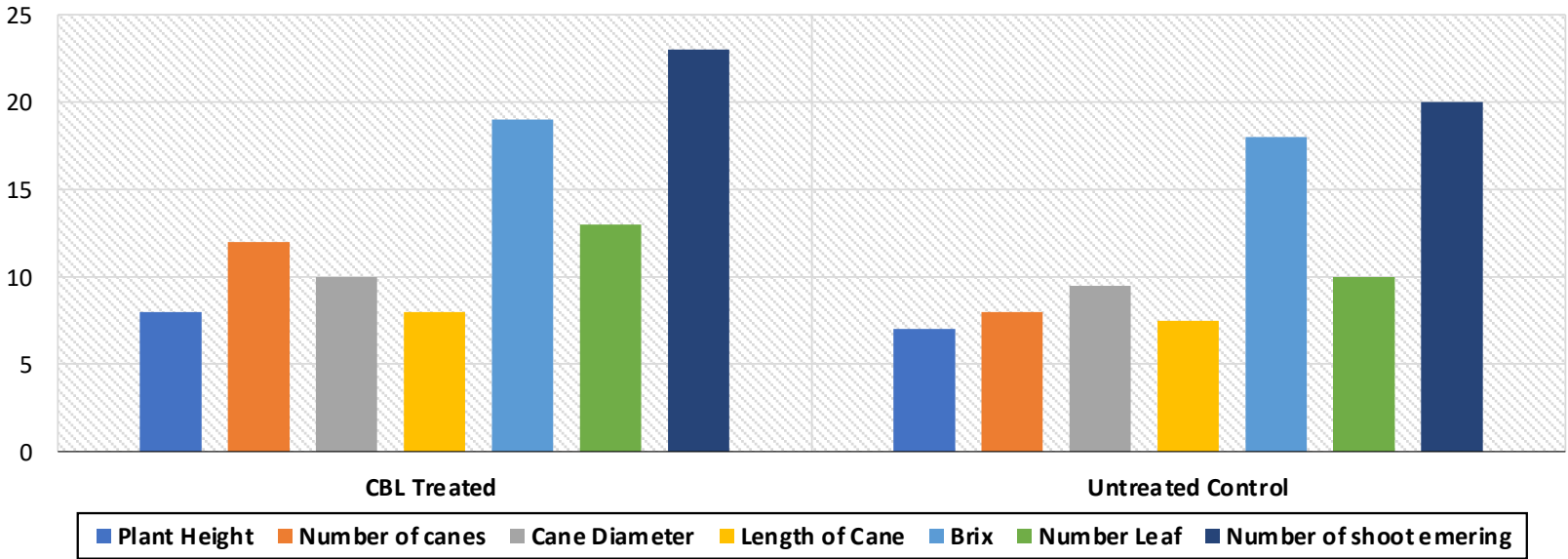
Treated with CBL



Untreated Control



Effect of foliar application of CBL on Sugarcane Crop



Parameters	CBL treated	Untreated Control
Plant Height (ft)	8	7
Number of canes	12	8
Cane Diameter	10	9.5
Length of Cane	8	7.5
BRIX	19	18
Number leaf	13	10
Number of emerging shoots (5ft)	23	20

Date of observation
16 March 2023