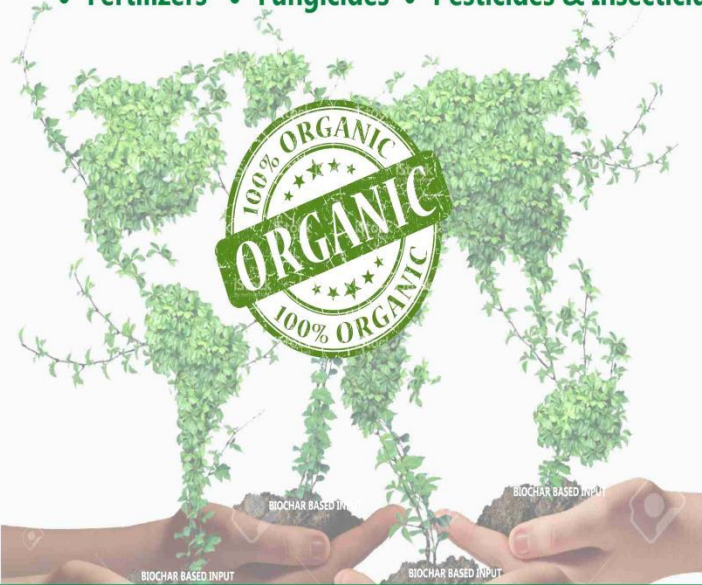




# BCX BIO Organics

Producer of Agricultural Organic Inputs

• Fertilizers • Fungicides • Pesticides & Insecticides



"Enrichment of carbon matter"

"Building trust in farmers among generations"



"Biosafe Hybrid Approach"



BIOCHAR



"100% residue free and customized solutions"

## BCX Bio Organics Product Trials on Mulberry Plants Conducted in

## Central Sericulture Germplasm and Research Centre - CSGRC

The BCX Total, a Bio Organic biochar based natural electrolyte, enhances plant cell metabolic activity. Natural electrolytes from BCX balances cell ionic concentration and rejuvenates the cell structure. It contains high amount of Bio humic and Bio fulvic amended with nutrients

- Regulates stomatal opening and reduces water transpiration loss
- Enhances availability of nutrients to plant cell
- Enhances cell metabolism and enzyme reactions
- Stimulant plant growth
- Enhances flowering and fruiting



## CSGRC's Test Report on Leaf Parameter treated by BCX Total



**Leaf size increase by 13 %**  
**Leaf Yield/plant increase - 37 to 51 %**  
**Chlorophyll increase mg/g fwt – 10 % to 20.7 %**  
**Protein Increase – 11% to 12.8 %**  
**Total Sugars Increase – 7 % to 8.8 %**



A photograph of mulberry plants on December 7th. The plants are small, with pale green to yellowish leaves, indicating nutrient stress. The background shows a residential area with trees and a house.

**7<sup>th</sup> Dec'17 – 1<sup>st</sup> day**

A photograph of the same mulberry plants on December 15th. The plants are significantly larger and more lush, with dark green, shiny leaves, showing a clear recovery from the stress seen in the previous image.

**15<sup>th</sup> Dec'17 – 8<sup>th</sup> day**

**Above plants were having nutrient stress and Micro nutrient deficiency which is exhibited as stunted growth, small leaves and pale green to yellow coloured leaves. This was there in one end of the trial plot. We keenly monitored that patch for performance.**

**In just 8 days of treatment leaves turned very dark green and leaf size drastically increased with lustre and shine which showed very predominant recovery in physical appearance.**



Variety: V1 (Victory 1)



**Spray progress on the trials of BCX total in mulberry germplasm – CSGRC facility**





The same stressed patch has recovered completely and performing as well as other plants in the plot for the second season without the application of BCX total.

\* Mulberry leaf is a major economic component in sericulture since the quality and quantity of leaf produced per unit area has a direct bearing on cocoon harvest.



# Mulberry Leaf Parameter

Effect of "BCX total" on mulberry leaf parameters

Parameter	Treatments			Significance levels	CD at 5%
	T1 (2.5 ml/litre)	T2 (4 ml/litre)	T0 (Control)		
No. of branches	13	12	10	***	1.10
Length of the longest shoot (cm)	214	212	199	**	8.02
No. of nodes/meter	38	39	38	-	1.98
Leaf size (sq cm)	227	223.3	200.9	*	10.2
Single leaf weight (g)	3.82	3.68	3.25	*	0.31
Leaf yield/plant (g)	1044	943	689	***	125
Moisture content (%)	68.09	68.19	68.23	-	1.04
Total chlorophyll mg/g fwt	2.34	2.56	2.12		
Protein (%)	13.38	13.19	11.86		
Total sugars (%)	21.95	22.26	20.46		

**Leaf size increase by 13 %**  
**Leaf Yield/plant increase - 37 to 51 %**  
**Chlorophyll increase mg/g fwt – 10 % to 20.7 %**  
**Protein Increase – 11% to 12.8 %**  
**Total Sugars Increase – 7 % to 8.8 %**





# Silk Worm Rearing Parameter -Bombyx Mori

Table.2: Effect of foliar nutrient BCX on silkworm rearing parameters through Bioassay

Control/ Trial	Larval wt. Before feeding	Larva wt. After feeding	Larva wt. 3 <sup>rd</sup> day	Final larval wt. Before spinning	Total larval duration <sup>  </sup>	ERR (%)	Single Cocoon wt.	Single Shell wt.	Shell Ratio (%)
T1	8.268 ± 0.533	12.513 ± 0.913	20.722 ± 1.127	49.020 ± 0.227	523 ± 20	98.2 ± 0.31	2.011 ± 0.062	0.427 ± 0.012	21.23 ± 0.173
T2	8.617 ± 0.382	14.196** ± 0.452	23.609** ± 0.345	49.724* ± 1.408	514.33*** ± 2.517	99.2** ± 0.2	1.993 ± 0.084	0.417 ± 0.007	20.96 ± 0.670
Control	8.524 ± 0.472	10.752 ± 0.080	18.587 ± 0.923	47.354 ± 0.587	536.67 ± 2.08	97.87 ± 0.12	1.895 ± 0.102	0.383 ± 0.021	20.23 ± 0.695
P	2.076	0.004	0.0055	0.0452	0.0004	0.0058	0.3379	0.0544	0.135
CD	0.561	1.982	1.982	1.756	5.475	0.545	0.203	0.035	1.10

Larval wt. on 3<sup>rd</sup> day: Increase by 27 %

Total Larval duration( cocoon production period): Reduced by 13 hrs to 22 hrs



# Reeling Data

CSGRC, Hosur for evaluation

ocoon Sample	Average Filament Length (Mts)	Non-Breakable Filament length (Mts)	Average Filament Denier
CONTROL - I	1137 60	1137 60	2 87
CONTROL - II	1095 19	1095 19	2 83
CONTROL - III	1069 20	891 00	2 99
EATMENT - I-R1	1182 71	1182 71	2 84
EATMENT - I-R2	1152 00	1152 00	2 97
EATMENT - I-R3	1102 39	918 66	2 88
EATMENT - II-R1	1224 79	1224 79	2 92
EATMENT - II-R2	1177 20	905 54	2 96
EATMENT - II-R3	1233 11	1121 01	2 70
Minimum	1069 20	891 00	2 70
Maximum	1233 11	1224 79	2 99
Average	1152 69	1069 83	2 88
Standard Deviation	57 23	129 03	0 09



Variety: V1

Silk worm: Bombyx Mori

BCX Growth Promoters and Dosage for Commercial application:

BCX Total: 3 ml/ lit

Microvin : 2 ml/ lit

Bloom 16: 2 ml/ lit

Application Stage:

1<sup>st</sup> Foliar application in 12 days after pruning – BCX Total & Microvin

2<sup>nd</sup> Foliar application in 20 days after pruning – BCX Total & Microvin or  
BCX Total & Bloom 16



# THANKS

**BCX BIO-ORGANICS**  
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