



NIKHIL ANALYTICAL & RESEARCH PVT. LTD.

Opposite Sadhana Petrol Pump, Kolhapur Road, Sangli - 416 416, Maharashtra, (Bharat).

• Email : nikhil_lab@yahoo.com

• Phone : +91 9552574418

CERTIFICATE OF ANALYSIS

/01		01/03/2023
Name/Organization	Dev Organic Farm, Kolhapur.	
Sample Description	Food-Nutritional value detailed	Crop:
Sample Collected By	Customer	Sample Received on
Sample Analyzed By	amruta kadam	Analysis Completed on
		28/02/2023
		01/03/2023

Sr	Parameter	□□□	Unit	Value	Limits	□□□□□□□□
Chemical Analysis						
1.	pH			7	6.5 - 8.5	
2.	Electric Conductivity		μmhos/cm	3200	3100.0	
3.	Total Alkalinity		mg/l	400	600.0	
4.	Total Hardness		mg/l	800	600.0	
5.	Permanent Hardness		mg/l			
6.	Temporary Hardness		mg/l			
7.	Calcium		mg/l		200.0	
8.	Magnesium		mg/l		100.0	
9.	Carbonate		mg/l			
10.	Bicarbonate		mg/l	600	732.0	
11.	Chloride		mg/l	200	250.0	
12.	Turbidity		NTU		1.0	
13.	Colour		-			
14.	Odour		-			
Microbiological Analysis						
15.	Most Probable Number		/100ml			
16.	Escherichia coli		/100ml			
17.	pH	????	-	7	6.5 - 8.5	
18.	Electric Conductivity	????????	mmhos/cm	1.5	0.1 - 1.4	
19.	Total Alkalinity	??????	mg/l	600	500.0	
20.	Total Hardness	??????	mg/l	760	600.0	
21.	Calcium	????????	mg/l		600.0	
22.	Magnesium	????????	mg/l	300	400.0	
23.	Carbonate	????????	mg/l			
24.	Bicarbonate	????????	mg/l	500	610.0	
25.	Sodium	??????	mg/l		250.0	
26.	Potassium	??????	mg/l		75.0	
27.	Chloride	????????	mg/l		300.0	
28.	Sulphate	??????	mg/l		300.0	
29.	S. A. R.	???. ?. ??.	-		10.0	
30.	R. S. C.	??, ???, ??.	-		2.5.0	
31.	Type of Water	????????	-			
32.	pH	????	-	10	6.5 - 8.5	????
33.	Electric Conductivity	????????	mS/cm	1	1.0	
34.	Nitrogen	????	Kg/ha		100 - 200	???
35.	Phosphorous	??????	Kg/ha		30 - 40	???
36.	Potassium	??????	Kg/ha		280 - 330	???
37.	Calcium	????????	%		0.3 - 1	???
38.	Magnesium	????????	%		0.1 - 0.3	???
39.	Organic Carbon	????????	%		1.5	???
Micronutrients						
40.	Iron	???	ppm		2.5 - 4.5	???
41.	Manganese	????	ppm		1 - 2	???
42.	Zinc	????	ppm		0.5 - 1.2	???
43.	Copper	?????	ppm		0.3 - 0.5	???
44.	Boron	?????	ppm		0.3 - 0.5	???
45.	Molybdenum	????????	ppm		0.4 - 0.5	???
46.	Active Lime		%			
47.	Bulk Density		g/cm ³			
48.	Cation Exchange Capacity		meq/100g			
49.	Electrical Conductivity		mmhos/cm			
50.	Moisture		%			
51.	Nitrogen		Kg/ha			
52.	Organic Carbon		%			
53.	Organic Matter		%			
54.	Particle Density		g/cm ³			

f. Nk
Analyst / Lab In-Charge

Nikhil
Managing Director
Nikhil Suhas Khambe
B.Tech (Bio-tech)



Note: The report refers only to submitted sample. It cannot be used for court purpose. We are not responsible for any legal matter. FOOD, FEED, FUEL, WATER, SOIL, PLANT MATERIAL, ORGANIC MANURE, CHEMICAL-BIOLOGICAL FERTILIZER, PGR, AYURVEDIC & PHARMACEUTICALS, INDUSTRIAL MATERIAL, SOLID WASTE, WASTE WATER, AIR POLLUTION, ENVIRONMENTAL MONITORING, ETP & STP DESIGNING & CONSTRUCTION.



NIKHIL ANALYTICAL & RESEARCH PVT. LTD.

Opposite Sadhana Petrol Pump, Kolhapur Road, Sangli - 416 416, Maharashtra, (Bharat).

• Email : nikhil_lab@yahoo.com

• Phone : +91 9552574418

CERTIFICATE OF ANALYSIS

Sr	Parameter	□□□	Unit	Value	Limits	□□□□□□□
55.	Particle Size Distribution		-			
56.	pH		-			
57.	Porosity		%			
58.	S. A. R.		-			
59.	Sand		%			
60.	Silt		%			
61.	Clay		%			
62.	Soil Texture		-			
63.	Total Ash		%			
64.	Total Volatile Solids (Only)		%			
65.	Water Holding Capacity		%			
66.	Phosphorus		Kg/ha			
67.	Potassium		Kg/ha			
68.	Calcium		%			
69.	Magnesium		%			
70.	Sulphur		ppm			
71.	Sodium		ppm			
72.	Chloride		ppm			
73.	Silicon		%			
74.	Iron		ppm			
75.	Manganese		ppm			
76.	Zinc		ppm			
77.	Copper		ppm			
78.	Boron		ppm			
79.	Molybdenum		ppm			
80.	Fluoride		ppm			
81.	Chromium		ppm			
82.	Titanium		ppm			
83.	Vanadium		ppm			
84.	Aluminium		ppm			
85.	Cobalt		ppm			
86.	Nickel		ppm			
87.	Arsenic		ppm			
88.	Bromine		ppm			
89.	Cadmium		ppm			
90.	Iodine.		ppm			
91.	Mercury		ppm			
92.	Lead		ppm			
Nutritional Value						
93.	Moisture		%	12		
94.	Total Minerals		%	2		
95.	Crude Protein		%	5		
96.	Crude Fat		%	66		
97.	Crude Fiber		%	66		
98.	Carbohydrate		%	11		
99.	Energy		Kcal/100g	22		
100.	Moisture		%			
101.	Total Minerals		%			
102.	Crude Protein		%			
103.	Crude Fat		%			
104.	Crude Fiber		%			
105.	Carbohydrate		%			
106.	Energy		Kcal/100g			
Other Analysis						
107.	Shelf Life		Days, Weeks, Months			
108.	Appearance		-			
109.	Colour		-			
110.	Flavour & Odour		-			
111.	Texture		-			
112.	Moisture		%	2	4.0	
113.	Total Ash (On Dry Basis)		%	9	8.2.0	
114.	Milk Protein		%			
115.	Milk Fat		%	1.8	1.5.0	

 f LR
 Analyst / Lab In-Charge

 Nikhil
 Managing Director
 Nikhil Suhas Khambe
 B.Tech (Bio-tech)


Note: The report refers only to submitted sample. It cannot be used for court purpose. We are not responsible for any legal matter. FOOD, FEED, FUEL, WATER, SOIL, PLANT MATERIAL, ORGANIC MANURE, CHEMICAL-BIOLOGICAL FERTILIZER, PGR, AYURVEDIC & PHARMACEUTICALS, INDUSTRIAL MATERIAL, SOLID WASTE, WASTE WATER, AIR POLLUTION, ENVIRONMENTAL MONITORING, ETP & STP DESIGNING & CONSTRUCTION.



NIKHIL ANALYTICAL & RESEARCH PVT. LTD.

Opposite Sadhana Petrol Pump, Kolhapur Road, Sangli - 416 416, Maharashtra, (Bharat).

• Email : nikhil_lab@yahoo.com

• Phone : +91 9552574418

CERTIFICATE OF ANALYSIS

Sr	Parameter	□□□	Unit	Value	Limits	□□□□□□□
116.	Total Solids		%	100	96	
117.	Titratable Acidity (as Lactic Acid)		%	1.2	1.5.0	
118.	Insolubility Index		ml	1.5	1.5.0	
119.	Scorched Particles		-			
120.	Moisture		%	12	10.0	
121.	Total Minerals (On Dry Basis)		%	3	6.0	
122.	Crude Protein		%	576		
123.	Crude Fat		%	11		
124.	Crude Fiber		%	66		
125.	Carbohydrate		%	78		
126.	Energy		Kcal/100g			
127.	Sucrose (On Dry Basis)		%	66	60	
128.	Reducing Sugar (On Dry Basis)		%			
129.	Total Sugar as Invert Sugar (On Dry Basis)		%	600	90	
130.	Sulphur Dioxide		ppm		70.0	
131.	pH (5 % Solution)		-			
132.	Extraneous & Insoluble Matter (On Dry Basis)		%		2.0	
133.	Vitamin C		mg/100g			
Minerals						
134.	Phosphorous		mg/100g			
135.	Potassium		mg/100g			
136.	Calcium		mg/100g			
137.	Magnesium		mg/100g			
138.	Iron		ppm			
139.	Manganese		ppm			
140.	Zinc		ppm			
141.	Copper		ppm			
142.	Sodium		mg/100g			
143.	Lead		ppm			
144.	Mercury		ppm			
145.	Arsenic		ppm			
146.	Cadmium		ppm			
Pesticides						
147.	Organochlorine Pesticide		-			
148.	Organophosphoric Pesticide		-			
149.	Iodine value		-	12		
150.	Melting Point		oC	2		
151.	Acid Value		-	1		
152.	Free Fatty Acids		-	66		
153.	B. R. Value		-	11		
154.	Baudine Test		-	1		
155.	Bellier's Test		-	3		
156.	Cloud Point		oC	78		
157.	Flash Point		oC	500		
158.	Unsaponifiable Matter (Only)		%			
159.	Refractive Index		-			
160.	Saponification Value		-			
161.	Peroxide Value		-			
162.	Polenske Value		-			
163.	R. M. Value		-			
164.	Rancidity		-			
165.	Mineral Oil Test		-			
166.	Argemone Oil Test		-			
167.	Density		g/cm3			
168.	Density at 20oC		g/cm3			
169.	Specific Gravity		-			
170.	Specific Gravity at 20oC		-			
171.	Moisture		%	2		
172.	Total Minerals		%	565		

 f LR
 Analyst / Lab In-Charge

 Nikhil
 Managing Director
 Nikhil Suhas Khambe
 B.Tech (Bio-tech)


Note: The report refers only to submitted sample. It cannot be used for court purpose. We are not responsible for any legal matter. FOOD, FEED, FUEL, WATER, SOIL, PLANT MATERIAL, ORGANIC MANURE, CHEMICAL-BIOLOGICAL FERTILIZER, PGR, AYURVEDIC & PHARMACEUTICALS, INDUSTRIAL MATERIAL, SOLID WASTE, WASTE WATER, AIR POLLUTION, ENVIRONMENTAL MONITORING, ETP & STP DESIGNING & CONSTRUCTION.



NIKHIL ANALYTICAL & RESEARCH PVT. LTD.

Opposite Sadhana Petrol Pump, Kolhapur Road, Sangli - 416 416, Maharashtra, (Bharat).

• Email : nikhil_lab@yahoo.com

• Phone : +91 9552574418

CERTIFICATE OF ANALYSIS

Sr	Parameter	□□□	Unit	Value	Limits	□□□□□□□□
173.	Crude Protein		%	34		
174.	Crude Fat		%	66		
175.	Crude Fiber		%	56		
176.	Carbohydrate		%	1		
177.	Energy		Kcal/100g	3		
178.	Total Sugar (as Invert Sugar)		%	2		
179.	Calcium		mg/100g	1		
180.	Potassium		mg/100g	2		
181.	Saturated Fatty Acids		%	344		
182.	Mono Unsaturated Fatty Acids		%	2		
183.	Poly Unsaturated Fatty Acids		%	22		
184.	Cholesterol		mg/100g	90		

f. Nk

Analyst / Lab In-Charge

Nikhil

Managing Director

Nikhil Suhas Khambe
B.Tech (Bio-tech)



Note: The report refers only to submitted sample. It cannot be used for court purpose. We are not responsible for any legal matter. FOOD, FEED, FUEL, WATER, SOIL, PLANT MATERIAL, ORGANIC MANURE, CHEMICAL-BIOLOGICAL FERTILIZER, PGR, AYURVEDIC & PHARMACEUTICALS, INDUSTRIAL MATERIAL, SOLID WASTE, WASTE WATER, AIR POLLUTION, ENVIRONMENTAL MONITORING, ETP & STP DESIGNING & CONSTRUCTION.