

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
WESTERN ZONE BENCH, PUNE
Original Application No. 85 / 2022**

Sachin Sudamrao Pachpute ... Applicants

v/s

Sahakar Maharshi Narayanrao Nagawade
SSKL & Ors. ... Respondents

**Affidavit on behalf of Respondent No. 2 MPCB in compliance of
the Hon'ble Tribunal's orders dated 09-02-2024.**

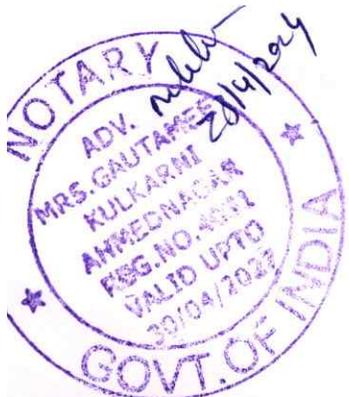
I, Chandrakant Shinde, Age : adult, occupation : service, the Sub-Regional Officer of the Maharashtra Pollution Control Board at Ahmednagar, having my office at Savitribai Fule Vyapari Sankul, 1st Floor, Hall Nos.2 & 3, Near T.V. Centre, Savedi, Ahmednagar – 414 003, do hereby state on solemn affirmation as under :

1. I say and submit that this Hon'ble Tribunal in its Order dated 09/02/2024 directed the Nodal agency of the Joint Committee i.e. MPCB to ensure that analysis results of samples collected by the Joint Committee in presence of the Applicant from the Gat Number in question shall be submitted before this Hon'ble Tribunal.
2. It is submitted that the Joint Committee collected the water samples on 21/10/2022 at following various locations.

Chandrakant Shinde

BEFORE ME

Mukherjee
MRS. GAUTAMEE G KULKARNI
NOTARY
GOVERNMENT OF INDIA

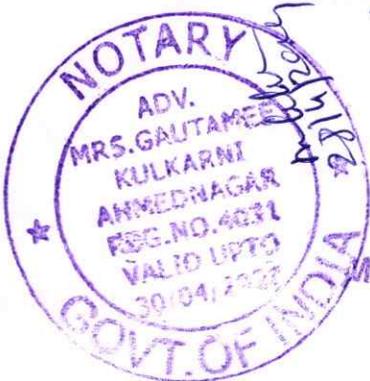




- i) From back side of M/s. Sahakar Maharshi Shivajirao N. Nagawade SSK, Shrigonda, Tal. Shrigonda, Dist. Ahmednagar.
- ii) From Natural Nalla near fresh water storage lagoon of M/s. Sahakar Maharshi Shivajirao N. Nagawade SSK, Shrigonda, Tal. Shrigonda, Dist. Ahmednagar.
- iii) From over flow of spent wash storage tank (Pacca Lagoon) & Leachate collection tank of Bio composting Yard South West direction at factory premises near compound wall of M/s. Sahakar Maharshi Shivajirao N. Nagawade SSK, Shrigonda, Tal. Shrigonda, Dist. Ahmednagar.
- iv) From Malicha odha near farmer land of Mr. Mahesh Suryawanshi (Gat No.154, Jangalewadi, Tal. Shrigonda, Dist. Ahmednagar.
- v) From Malicha Odha near farmer land of Mr. Madhukar Gund, Jangalewadi, Tal. Shrigonda, Dist. Ahmednagar.

Copies of analysis results of samples are enclosed & marked as an - **Annexure - I**

3. It is submitted that on request of the Respondent-Sugar Factory, a dug well water and one soil sample was collected from the site located at Gat Number 623/3 of village Kashti of Shrigonda Taluka, District Ahmednagar on 30/5/2023.



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BEFORE ME
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MRS GAUTAMEE G KULKARNI
 NOTARY
 GOVERNMENT OF INDIA

Analysis results of dug well water sample are enclosed herewith and marked as an **Annexure-II**.

Soil analysis report is as follows –

- (i) Soil pH observed 8.2, which considered as moderately alkaline.

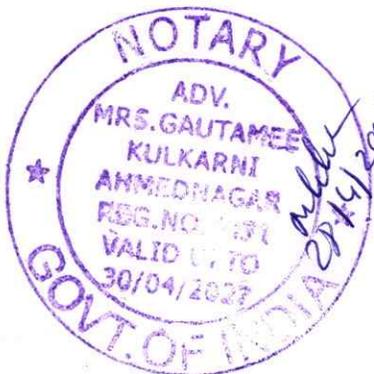
Soil pH Rating

Sr.No.	Category	Soil pH
1	Very acidic	< 4.5
2	Acidic	4.6- 5.2
3	Moderately acidic	5.3- 6.0
4	Slightly acidic	6.1- 6.5
5	Neutral	6.6- 7.0
6	Slightly alkaline	7.1- 7.5
7	Moderately alkaline	7.6-8.3
8	Alkaline	8.4-9.0
9	Very alkaline	> 9.0

- (ii) Organic carbon: OC of the soil was 0.65%, which considered as moderately high.

% Organic carbon :

Sr. No.	Category	% Organic carbon
1	Very low	Less than 0.20
2	Low	0.21 - 0.40
3	Moderate	0.41 - 0.60
4	Moderately high	0.61 - 0.80
5	High	0.81 - 1.00
6	Very high	Greater than 1.00



BEFORE ME
 MRS. GAUTAMEE G KULKARNI
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- (iii) NPK i.e. Nitrogen, Phosphorous and potassium. Available N of the tested soil sample was 235 kg/Ha, it is considered low.

Soil available Nitrogen (kg/ha)

Sr. No.	Category	Soil available Nitrogen(kg/ha)
1	Very low	< 140
2	Low	141 - 280
3	Moderate	281 - 420
4	Moderately high	421 - 560
5	High	561 - 700
6	Very high	> 700

- (iv) Available phosphorous (P) of tested soil sample was 2.75 kg/ha, which is considered very low.

Soil available Phosphorous(P) kg / ha

Sr.No.	Category	Soil available Phosphorous (kg / ha)
1	Very low	0 -7
2	Low	7 -14
3	Moderate	14 -21
4	Moderately high	21 -28
5	High	26 -35
6	Very High	More than 35



M. K. Kulkarni

BEFORE ME

M. K. Kulkarni
 MRS. GAUTAMEE G KULKARNI
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(v) Available potassium of tested soil sample was 320 kg/ha. It is considered very high.

Soil available (K) Potash, Kg/ha.

Sr.No.	Category	Available K Kg/ha.
1	Very Low	< 100
2	Low	101 - 150
3	Medium	151 - 200
4	Moderately High	201 - 250
5	High	251 - 300
6	Very high	> 300

In general, the soil characteristics of the above mentioned samples were similar to the other soil samples analyzed for the abovementioned study.

4. I say and submit that whatever stated above is true and correct to the best of my knowledge, ability and belief.

Solemnly affirmed on 28 MAR 2024, day of _____, 2024 at Ahmednagar.

BEFORE ME

For & on behalf of Respondent No.2
Maharashtra Pollution Control Board

MRS. GAUTAMEE G KULKARNI

NOTARY
GOVERNMENT OF INDIA

Shinde

(Chandrakant Shinde)

Solemnly affirmed before me
by Chandrakant Shinde
who is identified before me
by self
whom I personally know

NOTED & REGISTERED
AT S. No. GGK 313/2024

Sub - Regional Officer, Ahmednagar

TOTAL PAGES- 05



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Report Outward No.: MPCB/RL-Nashik/Environment/22-23/11/6

Date: 09/11/2022 06:16 PM

Analysis Report-Water (Environment)
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Client/Industry/location Name & Address

Water Sample collected at back side of M/s. Sahakar Maharshi Shivajirao N. Nagawade SSK, Shrigonda, Tal. Shrigonda, Dist. Ahmednagar.

Sample Details

Field Sample ID :	BR-0031137
Laboratory Sample Code :	MPCB/RL-Nashik/ENV/22-23/149
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Ahmednagar(Mr. Raviraj Patil) (SRO-Ahmednagar)
Seal No. :	236
Type of Industry / Location details :	
Sample Collected On :	Oct 21 2022 03:00:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.5		
2	Conductivity	4966.0	μS/cm	
3	Total Dissolved Solids(TDS)	3879.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	400.0	mg/l	
5	Chloride	899.72	mg/l	
6	Chemical Oxygen Demand (COD)	944.0	mg/l	
7	Phosphate (total)	0.59	mg/l	
8	Sulphate	769.00	mg/l	
9	Total Kjeldahl Nitrogen (TKN)	18.48	mg/l	
10	Potassium	226.00	mg/l	

Report Type: final

Report generated on: 09/11/2022 06:02 PM

Complied & Approved by: Shantilal Nagare

Reviewed on Date: 09/11/2022 06:16 PM

Reviewed by: Shantilal Nagare

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Report Outward No.: MPCB/RL-Nashik/Environment/22-23/11/7
Date: 09/11/2022 06:18 PM

Analysis Report-Water (Environment)

Client/Industry/location Name & Address

Water Sample collected at U/s of Natural Nalla near fresh water storage lagoon of M/s. Sahakar Maharshi Shivajirao N. Nagawade SSK, Shrigonda, Tal. Shrigonda, Dist. Ahmednagar.

Sample Details

Field Sample ID :	BR-0031138
Laboratory Sample Code :	MPCB/RL-Nashik/ENV/22-23/150
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Ahmednagar(Mr. Raviraj Patil) (SRO-Ahmednagar)
Seal No. :	236
Type of Industry / Location details :	
Sample Collected On :	Oct 21 2022 03:20:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.9		
2	Conductivity	5500.0	μS/cm	
3	Total Dissolved Solids(TDS)	4100.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	110.0	mg/l	
5	Chloride	1139.65	mg/l	
6	Chemical Oxygen Demand (COD)	304.0	mg/l	
7	Phosphate (total)	BDL	mg/l	
8	Sulphate	1014.50	mg/l	
9	Total Kjeldahl Nitrogen (TKN)	BDL	mg/l	
10	Potassium	86.00	mg/l	

Report Type: final

Report generated on: 09/11/2022 06:04 PM

Complied & Approved by: Shantilal Nagare

Reviewed on Date: 09/11/2022 06:18 PM

Reviewed by: Shantilal Nagare

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Shantilal Nagare
I/c Scientific Officer,
Regional Laboratory, Nashik,

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Report Outward No.: MPCB/RL-Nashik/Environment/22-23/11/8
Date: 09/11/2022 06:25 PM

Analysis Report-Water (Environment)

Client/Industry/location Name & Address

Water sample collected at over flow of spent wash storage tank (Pacca Lagoon) & leachate collection tank of BioComposting Yard South west direction at factory premises near compound wall of M/s. Sahakar Maharshi Shivajirao N. Nagawade SSK, Shrigonda, Tal. Shrigonda, Dist. Ahmednagar.

Sample Details

Field Sample ID :	BR-0031139
Laboratory Sample Code :	MPCB/RL-Nashik/ENV/22-23/151
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Ahmednagar(Mr. Raviraj Patil) (SRO-Ahmednagar)
Seal No. :	236
Type of Industry / Location details :	
Sample Collected On :	Oct 21 2022 04:05:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.8		
2	Conductivity	6300.0	μS/cm	
3	Total Dissolved Solids(TDS)	4574.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	850.0	mg/l	
5	Chloride	1499.54	mg/l	
6	Chemical Oxygen Demand (COD)	2160.0	mg/l	
7	Phosphate (total)	0.33	mg/l	
8	Sulphate	466.20	mg/l	
9	Total Kjeldahl Nitrogen (TKN)	21.28	mg/l	
10	Potassium	290.00	mg/l	

Report Type: final

Report generated on: 09/11/2022 06:11 PM

Complied & Approved by: Shantilal Nagare

Reviewed on Date: 09/11/2022 06:25 PM

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Reviewed by: Shantilal Nagare

Shantilal Nagare
I/c Scientific Officer,
Regional Laboratory, Nashik,

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Report Outward No.: MPCB/RL-Nashik/Environment/22-23/11/9
 Date: 09/11/2022 06:28 PM

Analysis Report-Water (Environment)

Client/Industry/location Name & Address

Water sample collected at D/s at Malicha Odha near farmer land of Mr. Mahesh Suryawanshi (Gat No. 154, Jangalewadi, Tal. Shrigonda, Dist. Ahmednagar)

Sample Details

Field Sample ID :	BR-0031140
Laboratory Sample Code :	MPCB/RL-Nashik/ENV/22-23/152
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Ahmednagar(Mr. Raviraj Patil) (SRO-Ahmednagar)
Seal No. :	236
Type of Industry / Location details :	
Sample Collected On :	Oct 21 2022 04:30:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.9		
2	Conductivity	1690.0	μS/cm	
3	Total Dissolved Solids(TDS)	1210.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	16.0	mg/l	
5	Chloride	237.93	mg/l	
6	Chemical Oxygen Demand (COD)	56.0	mg/l	
7	Phosphate (total)	BDL	mg/l	
8	Sulphate	247.90	mg/l	
9	Total Kjeldahl Nitrogen (TKN)	BDL	mg/l	
10	Potassium	19.40	mg/l	

Report Type: final

Report generated on: 09/11/2022 06:14 PM

Complied & Approved by: Shantilal Nagare

Reviewed on Date: 09/11/2022 06:28 PM

Reviewed by: Shantilal Nagare

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Report Outward No.: MPCB/RL-Nashik/Environment/22-23/11/10

Date: 09/11/2022 06:30 PM

Analysis Report-Water (Environment)

Client/Industry/location Name & Address

Water Sample collected at Malicha Odha near farmer land of Mr. Madhukar Gund, Jangalewadi, Tal. Shrigonda, Dist. Ahmednagar

Sample Details

Field Sample ID :	BR-0031141
Laboratory Sample Code :	MPCB/RL-Nashik/ENV/22-23/153
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Ahmednagar(Mr. Raviraj Patil) (SRO-Ahmednagar)
Seal No. :	236
Type of Industry / Location details :	
Sample Collected On :	Oct 21 2022 05:15:00:00PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	8.0		
2	Conductivity	4528.0	µS/cm	
3	Total Dissolved Solids(TDS)	2927.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	65.0	mg/l	
5	Chloride	939.71	mg/l	
6	Chemical Oxygen Demand (COD)	192.0	mg/l	
7	Phosphate (total)	BDL	mg/l	
8	Sulphate	382.00	mg/l	
9	Total Kjeldahl Nitrogen (TKN)	BDL	mg/l	
10	Potassium	103.00	mg/l	

Report Type: final

Report generated on: 09/11/2022 06:16 PM

Complied & Approved by: Shantilal Nagare

Reviewed on Date: 09/11/2022 06:30 PM

Reviewed by: Shantilal Nagare

* Electronic report does not require signature

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 Dist. : Pune - 412 307, Maharashtra, India



VASANTDADA SUGAR INSTITUTE'S TESTING LABORATORIES

TEST REPORT

VSITL/COMN/FM32C

Report Identification number		:VSITL-2023-03-272 (Page 1 of 2)		
ULR		:TC982123300000272F		
Sample UIN		:03-230530-003		
Name of Laboratory (VSI) & Location where tests performed		: Department of Environmental Science Testing Laboratory VSITL, Pune		
Name of customer and Address		: Sahakar Maharshi Shivajirao Narayanrao Nagawade SSKL : A/P Shrigonda Factory, Tal Shrigonda , Dist Ahmednagar 413726		
Sample type/description		: Water (Ground Water)		
Sampling location and sampling plan (if applicable)		: Well of Sachin Pachpute (623/3) : Sampling plan as per VSITL/ES/FM/10		
Date of sampling (If applicable)		: 30/05/2023		
Date of Receipt of sample		: 30/05/2023		
Date/s of Analysis		: 30/05/2023 to 06/06/2023		
Sr. No.	Test Parameter	Test Value	Unit	Test Method
		Ground Water		
1	pH at 25°C	7.22	---	APHA 23 rd Ed.(4500-H +B): 2017
2	Colour	BDL	CU	APHA 23 rd Ed. (2120)
3	Electrical Conductivity@25°C	3132	µmhos/cm	APHA23 rd Ed.(2510 B):2017
4	Total Dissolved Solid	1897	mg/l	APHA23 rd Ed.2540C:2017
5	Chemical oxygen demand at 27°C	46.00	mg/l	IS :3025 (Part 58):2017
6	Biochemical Oxygen Demand at 27°C	18.00	mg/l	IS 3025 (Part 44):2019
7	Total Suspended Solids	72.00	mg/l	APHA 23 rd Ed.(2540D):2017
8	Hardness(Total) as CaCO ₃	1270.00	mg/l	APHA23 rd Ed.(2340 "C"):2017
9	Copper as Cu	BDL	mg/L	APHA 23 rd Ed.(3111B):2017
10	Iron as Fe	2.30	mg/L	APHA23 rd Ed.(3111 B):2017
11	Nickel as Ni	BDL	mg/L	APHA23 rd Ed.(3111 B):2017
12	Zinc as Zn	0.122	mg/L	APHA 23 rd Ed.(3111B):2017
13	Manganese as Mn	BDL	mg/L	APHA23 rd Ed.(3111B):2017
14	Lead as Pb	BDL	mg/L	APHA23 rd Ed.(3111 B):2017
15	Cadmium as Cd	BDL	mg/L	APHA23 rd Ed.(3111 B):2017
16	Total Chromium as Cr	BDL	mg/L	APHA 23 rd Ed.(3111B):2017
17	Dissolved Oxygen	4.8	mg/l	APHA23 rd Ed.(4500"O.C):2017
19	Chlorides as Cl	374.88	mg/l	APHA 23 rd Ed. (4500 Cl-B, D): 2017
19	Total Solids	1942	mg/l	APHA 23 rd Ed. (2540B):2017

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

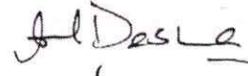


20	Calcium as Ca	245.28	mg/l	APHA 23rdEd.(3500Ca,B):2017
21	Fluoride as F	BDL	mg/L	APHA 23 rd Ed.(4500-F [“] D):2017
22	Magnesium as Mg	159.89	mg/l	APHA23rdEd.(3500Mg,B):2017
23	Sulphate as SO ₄	96.50	mg/l	APHA 23 rd Ed. (4500- SO ₄ 2-C, E): 2017
24	Total Alkalinity as CaCO ₃	302.5	mg/l	IS:3025(Part23):2019
25	Phosphorous as P	BDL	mg/l	APHA23 rd Ed.(4500 P, D):2017
26	Potassium as K	BDL	mg/l	APHA 23 rd Ed. (3500 [“] K-B):2017
27	Nitrate	BDL	mg/l	APHA23 rd Ed.(4500 NO ₃ B):2017
28	N as Kjeldahl Nitrogen	17.4	mg/l	APHA23 rd Ed.(4500 N ^{Org} , B):2017
29	Sodium as Na	71.00	mg/l	APHA23 rd Ed.(3500-Na, B):2017
30	Silica as SiO ₂ (Colloidal)	21.47	mg/l	APHA23 rd Ed.(4500SiO ₂ B):2017

Remark (If any): BDL for Colour ≤ 1 CU, BDL for Phosphorous, Cd, Nitrate & Cr ≤ 4mg/L, BDL for Pb ≤ 1mg/L, BDL for Copper ≤ 6mg/L, BDL for Ni ≤ 0.3mg/L, BDL for Mn ≤ 8 mg/L, BDL for F ≤ 3 mg/L, BDL for K ≤ 5 mg/L

Report Date: 25/07/2023

Authorized Signatory: Dr. A. B. Deshmane
Scientist


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-----End of Test Report-----

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VASANTDADA SUGAR INSTITUTE'S TESTING LABORATORIES

VSITL/COMN/FM32C

TEST REPORT

Report Identification number	: VSITL-2023-03-285 (Page 1 of 2)			
ULR	: TC982123300000285F			
Sample UIN	: 03-230530-002			
Name of Laboratory (VSI) & Location where tests performed	: Department of Environmental Science Testing Laboratory VSITL, Pune			
Name of customer and Address	: Sahakar Maharshi Shivajirao Narayanrao Nagawade SSKL : A/P Shrigonda Factory, Tal Shrigonda, Dist Ahmednagar 413726			
Sample type/description	: Soil			
Sampling location and sampling plan (if applicable)	: Farm of Mr. Sachin Pachpute (Gat 623/3) (18°34'52.36"N, 74°35'41.86"E,) (sample Code- S25)			
Date of sampling (If applicable)	: 30/05/2023			
Date of Receipt of sample	: 30/05/2023			
Date/s of Analysis	: 30/05/2023 to 06/06/2023			
Sr. No.	Test Parameter	Test Value	Unit	Test Method
		Soil		
1	pH@25oC	8.24		IS:2720(Part26):2011
2	Moisture	8.86	%	IS:2720(Part II):2010
3	Available Potassium	320.00	Kg/ha	Methods Manual, Soil Testing in India (Dept. of Agriculture and Co-operation, Ministry of Agri Government of India) 4.6.3.14, page no-99:2011
4	Organic Matter	0.84	%	Methods Manual, Soil Testing in India (Dept. of Agriculture and Co-operation, Ministry of Agri. Government of India), 4.6.3.9, page no.84:2011
5	Iron	450.00	mg/kg	USEPA SW 846-3050B/7000B:1996
6	Copper	BDL	mg/kg	USEPASW846-3050 B,7000B:1996
7	Zinc	BDL	mg/kg	USEPASW8463050 B,7000B:1996
8	Manganese (Mn)	6.00	mg/kg	USEPASW8463050 B,7000B:1996

Remark if any: - BDL for Cu \leq 6 mg/kg, For Zn \leq 4 mg/kg

Report Date: - 25/07/2023

Authorized Signatory: Dr. A. B. Deshmane
 Scientist

(Signature)

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 -----End of Test Report-----

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

01/01

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 Web site : www.vsisugar.com



ISO 9001:2008

VASANTDADA SUGAR INSTITUTE

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

TEST REPORT

VSITL/COMN/FM320

Sample UIN	: 03-230530-002			
Name of Laboratory (VSI) & Location where tests performed	: Department of Environmental Science Testing Laboratory VSITL, Pune			
Name of customer and Address	: Sahakar Maharshi Shivajirao Narayanrao Nagawade SSKL : A/P Shrigonda Factory, Tal Shrigonda, Dist Ahmednagar 413726			
Sample type/description	: Soil			
Sampling location and sampling plan (if applicable)	: Farm of Mr. Sachin Pachpute (Gat 623/3) (18°34'52.36"N, 74°35'41.86"E), (sample Code- S25)			
Date of sampling (If applicable)	: 30/05/2023			
Date of Receipt of sample	: 30/05/2023			
Date/s of Analysis	: 30/05/2023 to 06/06/2023			
Sr. No.	Test Parameter	Test Value	Unit	Test Method
		Soil		
1	Electrical Conductivity	655.07	µmhos/cm	Methods Manual, Soil Testing in India (Dept.of Agriculture and Co-operation, Ministry of Agri. Government of India),4.6.3.8a, pageno.81:2011
2	Organic Carbon	0.65	%	Methods Manual, Soil Testing in India (Dept. of Agriculture and Co-operation, Ministryof Agri. Government of India), 4.6.3.9,page no.84:2011
3	Available Nitrogen	235.00	Kg/ha	IS: 14684:2008
4	Available Phosphorous	2.75	Kg/ha	Olsen's method, Watanabe and Olsen's:2011

Remark if any: -
 Report Date: - 25/07/2023

Authorized Signatory: Dr. A. B. Deshmane
 Scientist

A. B. Deshmane

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 -----End of Test Report-----