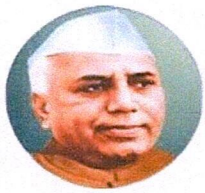

Shri Shivaji Education Society's
Board for Higher Education Vidyanagar Karad

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department of Chemistry

Year 2021-22

Name of activity- "Determination of Organic Carbon from Soil and Nature of pH."

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2.	Prachi Suresh Kadam
3.	Anandrao Eknath Gurav
4.	Sonali Ramesh Dupate
5.	Babaso Pandurang Desai
6.	Savita Hiralal Jadhav
7.	Gouri Pandlik Jujar
8.	Tilottama Sanjay Deshmukh
9.	Dattatray Mahadev Danane
10.	Chandrakant Dyandev Ghadage
11.	Ankush Ramchandra Jadhav
12.	Uttam Antu Desai
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15.	Madhav Nivruti Chavan
16.	Sambhaji Bhargav Chavan
17.	Sahil Arun Chavan
18.	Sambhaji Sadashiv Dalavi
19.	Vishal Hanumant Bhoyate
20.	Suyog Surend Desai

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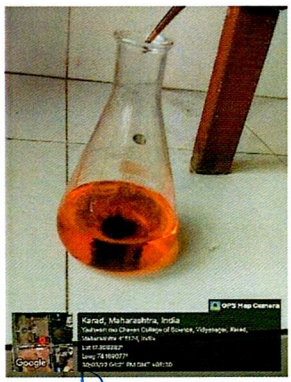
Department of Chemistry

Extension Activity 2021-22

Name of activity- "Determination of Organic Carbon from Soil and Nature of pH."

Purpose:	**Agricultural Implications:** Highlight the relevance of soil carbon measurements for agriculture, including its impact on soil fertility, nutrient cycling, and overall crop productivity. **Practical Application:** Illustrate how knowledge of soil carbon can be practically applied in making informed decisions regarding land management, sustainable agriculture, and environmental conservation. **Foundational Knowledge:** Establish a solid foundation in the fundamental principles of pH, including its definition, measurement, and significance in chemistry.
No. of beneficiaries:	20
Outcome/ success achieved:	**Biological Implications:** Recognition of the biological implications of pH, particularly its influence on enzyme activity, cellular function, and overall physiological processes in living organisms. **Theory-to-Practice Connection:** Bridging theoretical knowledge with practical application, demonstrating the application of scientific principles in real-world scenarios. **Carbon Sequestration Benefits:** Awareness of the potential for agriculture to contribute to carbon sequestration, mitigating the effects of climate change through soil carbon management.
Teachers involved in the activity	Prof. Dr. S. H. Burungale, Prof. Dr. A. V. Mali, Mr. A. N. Bhingare, Dr. R.S. Patil, Mr. B. E. Mahadik, Mr. G. B. Dhake, Dr. U. P. Lad, Mr. S. D. Karande, Dr. S. D. Jadhav, Mrs. P. P. Patil, Mrs. S. R. Veer, Mrs. M. B. Jagadale



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Principal,
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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Sr. No	Name of Farmer	Address	Soil Received Date	Mobile No.	Sign
1.	Madan shankar Jadhav.	At. Wagheshwar post - Masur tal - karad	18/1/22	8459845488	Jadhav
2.	Kadam Prachi Suresh	At. Kese Tal. Karad Dist. Satara	20/1/22	7498182373	Kadam
3.	गुरव आनंदराव एकनाथ	मु. पो. शिरवडे ता- कराड, जि- सातारा	20/1/22	7249198090	Gurav
4.	दुपटे सोनाली रमेश	मु. पो. कापील ता. कराड जि. सातारा	27/1-22	8329997048	Dupate
5.	बाळासो पांडुरंग देसाई	मु. पो. काले ता. कराड जि. सातारा	02/02/22	8623995153	BPDesai
6.	Jadhav Savitra Hiralal	At. Post. Nagthane Tal - Dist Satara	02/02/22	7350158649	Jadhav
7.	Jujar Gouri Rundlik	A.P Kale. Tal-Karad Dist- Satara	03/02/22	7666046663	Gouri
8.	Deshmukh Tilottama Sanjay	A/P. Belawade Haveli Tal-Karad Dist- Satara	08/02/22	9561000499	Deshmukh
9.	Dattatray Mahadev Danane	Aagashimagar malkapur, Karad.	09/02/22	9960022503	D.M. Danane
10.	चंद्रकांत ज्ञानदेव दाईंगडे	मु. पो. कुसारगाव तो. पाटण	14-2-22	7391024208	चंद्रकांत
11.	अंकुश रामचंद्र जाधव	मु. बाटेवाडी पो. पाडळोशी ता. पाटण	17-2-22	7507750881	अं. रा. जाधव

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Extension Activity 2021-22

Department of Chemistry

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Sr. No	Name of Farmer	Address	Soil Received Date	Mobile No.	Sign
12	Desai Uttam Antu	A/P. Arewadi Tal. Karad.	4/3/2022	9768455858	Desai
13.	चव्हाण हंबीराव ज्ञानदेव	A/P-sajur T-Karad	4/3/2022	9049855261	HDChavan
14	Tanaji Shivaji Gholap,	A/P. Nigadi Tal-Karad.	8/3-22	9529619793	Gholap.
15.	Madhav Nivrutti chavan	A/P - Uttar Koparde, Tal - Karad	9/3/22	8432833568	Mchavan
16.	Sambhaji Bhagvan Chavan	A/P - Shirawade Tal - Karad.	16/3/22	9107335599	Chavan.
17	चव्हाण साहिल आण्णा	मु.पो. साजुर ता. कराड	21-3-2022	9210E202994	Sahil
18.	दळवी संभाजी सदाशिव.	मु.पो. सैदापूर ता. कराड	21-3-2022	9049392984	
19.	शेडेट विशाल हणमंत	मु.पो. तेंबू ता. कराड	24/03/2022	9730000030	Shelke
20	Desai Suyog surend	At post-Vihe	28-3-2022	8263935259	Desai

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Extension Activity 2021-22

Department of Chemistry

Date : 29/1/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Jadhav Madan shankar.

Address : At-waghheshwar post-Masur Tal-karad. Dist-Satara

pH values : 8 Nature : Basic

Blank Titration X	Back Titration Y
1. 35.2 ml	1. 22.4 ml
2. 35.2 ml	2. 22.4 ml
3. 35 ml	3. 22 ml
CBR = 35.2 ml	CBR = 22.4 ml

% of Organic Carbon in Soil $= \frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

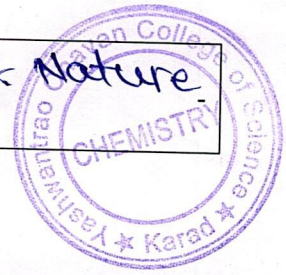
0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon $= \frac{[X-Y] \times N \times 0.003}{\text{Soil of the sample in gram}} \times 100$

$= \frac{(35.2-22.4) \times 0.5 \times 0.003}{1} \times 100$

$= 1.92\ \%$

Conclusion - These soil contains 1.92% carbon & Nature of soil is Basic.



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Extension Activity 2021-22

Department of Chemistry

Date : 29/1/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Jadhav Madan shankar.

Address – At - wagheshwar post - Masur Tal - Karad Dist - Satara.

% of Organic Carbon in Soil is : 1.92 %.

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Extension Activity 2021-22

Department of Chemistry

Date : 29/1/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Kadam Prachi suresh

Address : At-Kese Tal-Karad Dist-Satara

pH values : 7 Nature : Neutral

Blank Titration X

1. 33.2 ml
2. 33.2 ml
3. 33 ml

CBR = 33.2 ml

Back Titration Y

1. 20.4 ml
2. 20.4 ml
3. 20 ml

CBR = 20.4 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

percentage of organic carbon $= \frac{(X-Y)\times N\times 0.003}{\text{Soil of sample in gram}} \times 100$

$= \frac{(33.2-20.4)\times 0.5\times 0.003}{1} \times 100$

$= 1.92\ \%$.

Conclusion - These soil contains 1.92% carbon & Nature of Soil is Neutral

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Extension Activity 2021-22

Department of Chemistry

Date : 29/1/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Kadam Prachi suresh

Address – At- Kese Tal- Karad Dist- Satara.

% of Organic Carbon in Soil is : 1.92%.

Nature of Soil : Neutral

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 29/1/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: गुरव आनंदराव एकनाथ

Address : मु.पो. शिरवडे ता. कराड जि. सातारा.

pH values : 7 Nature : Neutral

Blank Titration X	Back Titration Y
1. ~~34.2~~ 34.2 ml	1. ~~24.2~~ 20.4 ml
2. ~~34.2~~ 34.2 ml	2. ~~24.2~~ 20.4 ml
3. 36 ml	3. 24 ml
CBR = ~~36.2~~ 34.2 ml	CBR = ~~24.2~~ 20.4 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(X-Y)\times N\times 0.003}{\text{Soil of Sample in gram}} \times 100$

$= \frac{(34.2-20.4)\times 0.5\times 0.003}{1} \times 100$

$= 2.07\%$

Conclusion - These soil contains 2.07% carbon & Nature of Soil is Neutral.

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Extension Activity 2021-22

Department of Chemistry

Date : 29/7/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - शुभम आनंदराव एकनाथ

Address – मु.पो: शिरवडे ता.कराड जि. सातारा

% of Organic Carbon in Soil is : 2.07%.

Nature of Soil : Neutral

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 29/1/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: दुपेट सोनाली रमेश

Address : मु.पो. कापील ता.कराड जि.सातारा

pH values : 7 Nature : neutral

Blank Titration X	Back Titration Y
1. 36.4 ml	1. 24.2 ml
2. 36.4 ml	2. 24.2 ml
3. 36 ml	3. 24 ml
CBR = 36.4 ml	CBR = 24.2 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

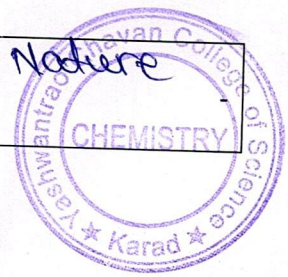
0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{[X-Y]N \times 0.003}{\text{Soil of sample in gram}} \times 100$

$= \frac{(36.4 - 24.2) \times 0.5 \times 0.003}{1} \times 100$

$= 1.83\%$

Conclusion - These soil contains 1.83% carbon & Nature of soil is Neutral.



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Extension Activity 2021-22

Department of Chemistry

Date : 29/1/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - दुपटे सोनाली रमेश.

Address – मु.पो. कापील ता. कराड जि. सातारा.

% of Organic Carbon in Soil is : 1.83 %.

Nature of Soil : Neutral

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Balaso pandurang Desai

Address : A.P. kale Tal. karad Dist-satara.

pH values : 4 Nature : Acidic

Blank Titration X	Back Titration Y
1. 22.5 ml	1. 20.4 ml
2. 22.5 ml	2. 20.4 ml
3. 22 m	3. 20 ml.
CBR = 22.5 ml	CBR = 20.4 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

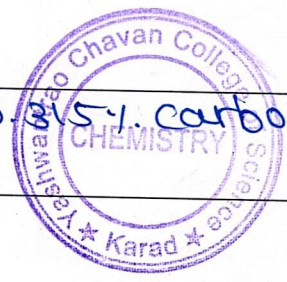
0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(x-y) \times N \times 0.003 \times 100}{\text{soil of The sample in gram}}$

$= \frac{(22.5-20.4) \times 0.5 \times 0.003)}{1}$

$= 0.315\%$.

Conclusion - This soil contains 0.315% carbon & Nature of soil is Acidic.



Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Balaso pandurang Desai

Address – A-P post kale Tal.-karad Dist-satara.

% of Organic Carbon in Soil is : 0.31%.

Nature of Soil : Acidic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Jadhav savitra Hiralal

Address : At·post Nagthane tal-karad Dist-satara.

pH values : ~~8.5~~ 7 Nature : Neutral

Blank Titration	Back Titration
1. 24 ml	1. 22.5 ml
2. 24 ml	2. 22.5 ml
3. 28 ml	3. 22 ml
CBR = 24 ml	CBR = 2.25 ml.

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(x-y)\times N\times 0.003}{\text{soil of the sample in gram}} \times 100$

$= \frac{(24-22.5)\times 0.5\times 0.003}{1} \times 100$

$= \frac{1.5\times 0.5\times 0.003}{1} \times 100$

$= \frac{0.00225\times 100}{1}$

$= 0.22\%$

Conclusion - This soil contains 0.22% carbon & Nature of Soil is Neutral.

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Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Jadhav savitra Hiralal

Address – At post Nagthane Tal-kard Dist-satara.

% of Organic Carbon in Soil is : 0.22%.

Nature of Soil : Neutral

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Jajar Gouri pundlik

Address : AP post. kale Tal. Karad Dist - satara.

pH values : ~~7~~ 3 Nature : Basic

Blank Titration X	Back Titration Y
1. 34.2 ml	1. 21.4 ml
2. 34.2 ml	2. 21.4 ml
3. 33 ml	3. 20 ml.
CBR = 34.2 ml	CBR = 21.4 ml

% of Organic Carbon in Soil $= \frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon $= \frac{(x-y)\times N\times 0.003\times 100}{\text{Soil of the sample in gram}}$

$= \frac{(34.2 - 21.4)\times 0.5\times 0.003)}{1} \times 100$

$= 0.45 / 1.92\ \%$.

Conclusion - This soil contains ~~0.~~ 1.92% carbon & Nature of soil is Basic

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Jujar Gouri pundlik

Address – At post kale · Tal· karad Dist- satara.

% of Organic Carbon in Soil is : 1.92%.

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Deshmukh Tilottama sanjay

Address : A/P Belawade Haveli Tal. Karad Dist-satara.

pH values : ~~8.2~~ 7 Nature : Neutral

Blank Titration	Back Titration
1. 24ml	1. 21 ml
2. 24ml	2. 21 ml
3. 23 ml	3. 20 ml
CBR = 24ml	CBR = 21 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

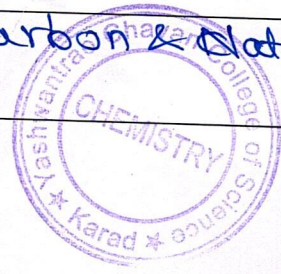
0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(x-y) \times N \times 0.003}{\text{soil of the sample in gm}} \times 100$

$= \frac{(24-21) \times 0.5 \times 0.003}{1} \times 100$

$= 0.45\%$.

Conclusion - This soil contains 0.45% carbon & Nature of soil is Neutral.



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Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Deshmukh Tilottama Sanjay

Address – A/P Belawade Haveli Tal. Karad. Dist-Satara.

% of Organic Carbon in Soil is : 0.45%.

Nature of Soil : Neutral

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Dattatray Mahadev Danane

Address : Agashivnagar malkapur, Karad . Dist - Satara .

pH values : 6.6 Nature : Acidic

Blank Titration	Back Titration
1. 26ml	1. 22 ml
2. 26ml	2. 22ml
3. 25ml	3. 21 ml
CBR = 26ml	CBR = 22ml

% of Organic Carbon in Soil $= \frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon $= \frac{(x-y) \times N \times 0.003}{\text{soil of a sample in gram}} \times 100$

$= \frac{(26-22) \times 0.5 \times 0.003}{1} \times 100$

$= \frac{4 \times 0.5 \times 0.003}{1} \times 100$

$= \frac{2 \times 0.003}{1} \times 100$

$= 0.006 \times 100$

$= 0.6\%$ $= 0.6\%$

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Conclusion - This soil contains 0.6% carbon & Nature of soil is Acidic.

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Dattatray Mahadev Danane

Address – A/P Agashivnagar Malkapur Tal.Karad Dist-Satara.

% of Organic Carbon in Soil is : 0.6%.

Nature of Soil : Acidic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer: Chandrakant Dayndev Ghadge

Address : A/p kumbharghat tal. patan.

pH values : 7.4 Nature : Basic

Blank Titration	Back Titration
1. 19.1 ml	1. 18.2 ml
2. 19.1 ml	2. 18.2 ml
3. 18 ml	3. 17 ml
CBR = 19.1 ml	CBR = 18.2 ml

% of Organic Carbon in Soil $= \frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(x-y)\times N\times 0.003\times 100}{\text{Soil of The Sample in gram}}$

$= \frac{(19.1-18.2\times 0.5(0.003)}{1} \times 100$

$= 0.135\ \%$.

Conclusion - This soil contains 0.135% Carbon & Nature of soil is Basic

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Chandrakant Dyndev Ghadge

Address – A/P kumbharghat Tal. patan.

% of Organic Carbon in Soil is : 0.135%.

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 03-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Ankush Ramchandra Jadhav

Address : A/P batevadi, padloshi, tal. patan

pH values : 6 Nature : Acidic

Blank Titration	Back Titration
1. 18.5 ml	1. 17.7 ml
2. 18.5 ml	2. 17.7 ml
3. 17 ml	3. 16 ml
CBR = 18.5 ml	CBR = 17.9 ml.

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(x-y)\times N\times 0.003\times 100}{\text{soil of the sample in gram}}$

$= \frac{(18.5-17.7)(0.5)(0.003}{1} \times 100$

$= \frac{0.8 \times 0.5 \times 0.003}{1} \times 100$

$= 0.12\%$

Conclusion - This soil contains 0.12% Carbon & Nature of soil is Acidic.

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 02-03-2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Ankush Ramchandra Jadhav

Address – A/p bedevadi, padloshi, tal. patan.

% of Organic Carbon in Soil is : 0.12%.

Nature of Soil : Acidic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Desai uttam Antu

Address : A/p Arewadi, Tal - Karad, Dist - satara

pH values : 7 Nature : Neutral

Blank Titration X		Back Titration Y	
1.	34 ml	1.	16 ml
2.	34 ml	2.	16 ml
3.	33.2 ml	3.	15.4 ml
CBR =	34 ml	CBR =	16 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic solvent = $\frac{(x-Y)\times N \times 0.003}{\text{Soil of sample in gram}} \times 100$

$= \frac{(34-16) \times 0.5 \times 0.003}{1} \times 100$

$= 2.7\%$

PH = 7

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Conclusion - This soil contains 2.7 % Carbon and nature of soil is Neutral

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Desai uttam Antu

Address – A/P Arewadi, Tal- Karad, Dist- Satara.

% of Organic Carbon in Soil is : 2.7%

Nature of Soil : Neutral

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Chavan Habirao dnyandev

Address : A/P - Sajur, Tal - Karad, Dist - Satara

pH values : 8 Nature : Basic

Blank Titration X		Back Titration Y	
1.	34 ml	1.	18 ml
2.	34 ml	2.	18 ml
3.	33 ml	3.	17 ml
CBR =	34 ml	CBR =	34 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

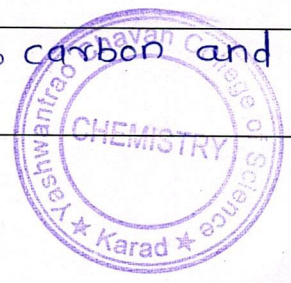
0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic solvent = $\frac{(x-y)\times N \times 0.03}{\text{Soil of sample in gram}} \times 100$

$= \frac{(34-18)\times 0.5 \times 0.03}{1} \times 100$

$= 2.4$

Conclusion - This soil contains 2.4 % carbon and nature of soil is Basic



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Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Chavan Habirao Dnyandev

Address – A/P Sajur, Tal-Karad, Dist-Satara

% of Organic Carbon in Soil is : 2.4%

Nature of Soil B : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/8/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Tanaji Shivaji Gholap

Address : A/P. Nigadi, Tal-Karad, Dist-Satara

pH values : 7.2 Nature : Basic

Blank Titration		Back Titration	
1.	25 ml	1.	22 ml
2.	25 ml	2.	22 ml
3.	24 ml	3.	22 ml
CBR =	25 ml	CBR =	22 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(x-y)\times N \times 0.003}{\text{Soil of the sample in gram}} \times 100$

$= \frac{(25-22)\times 0.5\times 0.003}{1} \times 100$

$= 0.45\%$

Conclusion - This soil contains 0.45% Carbon and nature of soil is Basic

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Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Tanaji shivaji Gholap

Address – AIP . Nigadi Tal -Karad , Dist -Satara

% of Organic Carbon in Soil is : 0.45%

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/22

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Madhav Nivruti chavan

Address : A/P - Uttar Kopaede, Tal - karad, Dist - satara

pH values : 8.4 Nature : Basic

Blank Titration		Back Titration	
1.	21 ml	1.	17.5 ml
2.	21 ml	2.	17.5 ml
3.	20 ml	3.	17 ml
CBR =	21 ml	CBR =	17.5 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

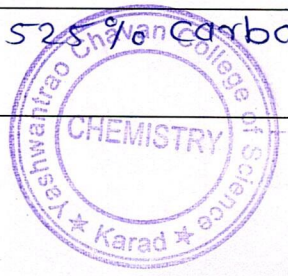
0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon - $\frac{(X-Y)\times N\times 0.003}{\text{Soil of the sample in gram}} \times 100$

$= \frac{(21-17.5)\times 0.5\times 0.003}{1} \times 100$

$= 0.525$

Conclusion - This soil contains 0.525% carbon and nature of soil is Basic



Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Madhav Nivruti chavan

Address – A/P- Uttar Koparde ,Tal- Karad, Dist -satara .

% of Organic Carbon in Soil is : 0.525%

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Sambhaji Bhargav chavan

Address : A/P - shirawade Tal-karad, Dist-satara

pH values : 7.7 Nature : Basic

Blank Titration		Back Titration	
1.	21.3 ml	1.	17.4 ml
2.	21.3 ml	2.	17.4 ml
3.	20 ml	3.	17 ml
CBR =	21.3 ml	CBR =	17.4 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic Carbon = $\frac{(x-y) \times N \times 0.003}{\text{Soil of the sample in gram}} \times 100$

$= \frac{(21.3-17.4) \times 0.5 \times 0.003}{1} \times 100$

$= 0.585$

Yashwantrao Chavan College of Science ★ CHEMISTRY ★ Karad

Conclusion - This soil contains 0.585% carbon and nature of soil is Basic

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Sambhaji Bhargav chavan

Address – A/P shirawade, tal - Karad, Dist - satara

% of Organic Carbon in Soil is : 0.585%

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Chavan Sahil Arun

Address : A/P Sajur, tal- Karad, Dist -satara

pH values : 9.2 Nature : Basic

Blank Titration		Back Titration	
1.	20.1 ml	1.	19.5 ml
2.	20.1 ml	2.	19.5 ml
3.	20 ml	3.	19 ml
CBR =	20.1 ml	CBR =	19.5 ml

% of Organic Carbon in Soil $= \frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon $= \frac{(X-Y)\times N\times 0.003}{\text{Soil of the sample in gram}} \times 100$

$= \frac{(20.1-19.5)\times 0.5\times 0.003}{1}$

$= 0.09$

Conclusion - This soil contains 0.09% carbon and nature of soil is Basic

Yashwantrao Chavan College of Science CHEMISTRY Karad

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Chavan Sahil Arun

Address – A/P Sajur, Tal-Karad, Dist-Satara

% of Organic Carbon in Soil is : 0.09%

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : Dalavi Sambhaji Sadashiv

Address : A/P Saidapur, Tal- Karad , Dist-Satara

pH values : 7.7 Nature : Basic

Blank Titration		Back Titration	
1.	21.2 ml	1.	17.3 ml
2.	21.2 ml	2.	17.3 ml
3.	21 ml	3.	17 ml
CBR =	21.2 ml	CBR =	17.3 ml

% of Organic Carbon in Soil $= \frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon $= \frac{(X-Y)\times N\times 0.003}{\text{Soil of the sample in gram}} \times 100$

$= \frac{(21.2-17.3)\times 0.5\times 0.003}{1} \times 100$

$= 0.585$

Conclusion - This soil contains 0.585% carbon and nature of soil is Basic

Yashwantrao Chavan College of Science CHEMISTRY Karad

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/3/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Dalavi Sambhaji Sadashiv

Address – A/P Saidapur ,Tal - Karad , Dist - Satara

% of Organic Carbon in Soil is : 0.585 %

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

Yashwantrao Chavan College of Science * Karad * CHEMISTRY

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 30/04/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : DESAI Suyog surendra

Address : AT/ POST/ Wing

pH values : 10 Nature : Basic

Blank Titration (X)	Back Titration (Y)
1. 19.2 ml	1. 18.3 ml
2. 19.2 ml	2. 18.3 ml
3. 19.1 ml	3. 18.1 ml
CBR = 19.2 ml	CBR = 18.3 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic carbon = $\frac{(X-Y)\times N\times 0.003}{\text{Soil of the sample in gram}} \times 100$

$= \frac{(19.2-18.3)\times 0.5\times 0.003}{1} \times 100$

$= 0.135\ \%$

Yashwantrao Chavan College of Science Karad CHEMISTRY

Conclusion - This soil contains 0.135% Carbon & Nature of soil is Basic.

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/04/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Desai Suyog Suresh

Address – AT/post - Wing

% of Organic Carbon in Soil is : 0.135 %

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Head Of Department

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Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry

Date : 30/04/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer : ~~मोहिते~~ Bhosle Vishal Hanmanth

Address : mu/post/ Hambhul Tal KARAD Dis/SATARA

pH values : 8.6 Nature : Basic

Blank Titration		Back Titration	
1.	22.6 ml	1.	20.4 ml
2.	22.6 ml	2.	20.4 ml
3.	22 ml	3.	20 ml
CBR =	22.6 ml	CBR =	20.4 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount\ of\ soil\ sample\ in\ gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K_2CrO_7 solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

0.003 = 1 ml of 1 N K_2CrO_7 = 3 mg =0.003 g of C

Percentage of organic ~~Carbon~~ carbon -

$$= \frac{(X-Y) \times N \times 0.003}{\text{soil of the sample in gram}} \times 100$$

$$= \frac{(22.6 - 20.4) \times 0.5 \times 0.003}{1} \times 100$$

$$= 0.33\ \%$$

Conclusion - This soil contains 0.33% carbon & nature of soil is Basic.

Yashwantrao Chavan College of Science CHEMISTRY Karad

Yashwantrao Chavan College of Science, Karad

Extension Activity 2021-22

Department of Chemistry **Date :** 30/4/2022

Name of Activity - Determination of organic Carbon from Soil and Nature of pH

Name of Farmer - Bhoite vishal Hanmant.

Address – AT/post - Humbhul, Tal - karad, Dist - Satara.

% of Organic Carbon in Soil is : 0.33%

Nature of Soil : Basic

Limit :

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Limit :

Acidic : less than 7

Neutral : 7

Basic : More than 7

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