

**Date:** 25-10-2019

Sample Received On	29.09.2019
Analysis Completed On	23.10.2019

Name of Farmer	Om veer singh malik
Mob. No.	8103894008
Place	Paraskot saja
Name of Sample	Soil
Plot Number	papita

## **ANALYSIS REPORT OF SOIL SAMPLE**

<u>S. No.</u>	<u>Parameters</u>	<u>Unit</u>	<u>Method used</u>	<u>Limits</u>	<u>Grade</u>	<u>Result</u>
---------------	-------------------	-------------	--------------------	---------------	--------------	---------------

### **GENERAL TEST**

1	pH	.....	1:2.5 soil water suspension on pH  Meter	< 6.5	Acidic	
				6.5-7.5	Normal	
				7.5-8.5	saline	8.2
				> 8.5	alkaline	
2	Electrical Conductivity	DSm-1	1:2.5 soil water suspension on Conductivity  Meter	< 1.0	Normal	0.27
				1.0-2.0	Moderately High	
				2.01-3.0	High	
				> 3.0	Very High	
3	Water holding Capacity	%	Filter paper	< 25	Low	
				25-50	Normal	40



**AKSHAT FERTIGATION+**

## **AKSHAT FERTIGATION PLUS**

Soil Water & Plant Analysis Lab

**Add:** In In-front of Essar Petrol Pump, Gogaon Industrial Area, Ring Road No. 2, Raipur (C. G.)

**GSTIN:** 22AANCA4198F1ZM **Helpline No.** 07714914988

				> 50	High	
4	Calcium Carbonate	%	Rapid titration	< 1.00	Low	
				1-5	Normal	2
				> 5	High	
5	Organic carbon	%	Wet oxidation	< 0.2	Very low	
				0.2-0.4	Low	
				0.41-0.8	Normal	0.47
				0.81-1.00	High	
				> 1.00	Very high	

### **MAJOR NUTRIENT**

6	Nitrogen	Kg/ha	Alkaline kmno <sub>4</sub>	< 150	Very low	
				151-280	Low	203.8
				281-560	Normal	
				561-700	High	
				> 700	Very high	
7	Phosphorus	Kg/ha	Olsene ( NaHCO <sub>3</sub> extraction )	< 7.00	Very low	
				7-12.5	Low	
				12.5-25	Normal	23.06
				25-35	High	
				> 35	Very high	
8	Potassium	Kg/ha	AAS (nutria ammonium extract	< 100	Very low	
				101-135	Low	
				135-335	Normal	
				335- 400	High	
				> 400	Very high	612.6

**Email:** [akshatfertilizers@gmail.com](mailto:akshatfertilizers@gmail.com)

**Web Site:** [akshatfertilizers.com](http://akshatfertilizers.com)

## **SECONDARY NUTRIENTS**

9	Calcium	ppm	EDTA ( Titration )	< 672	Low	336
				672-1000	Normal	
				1000-1800	High	
				>1800	Very high	
10	Magnesium	ppm	EDTA ( Titration )	< 270	Low	
				270-500	Normal	322.5
				500-800	High	
				>800	Very high	
11	Sulphur	ppm	AAS (neutral ammonium extract	<22.00	Low	11.4
				22.00-35.00	Normal	
				35-50	High	
				> 50	Very high	
12	Sodium	ppm	AAS (neutral ammonium Extract	< 400	Normal	57.8
				> 400	High	

**MICRONUTRIENT**

13	Copper	ppm	DTPA extraction and AAS	< 0.2	Low	
				0.2-5	Normal	
				> 5	high	4.6
14	Zinc	ppm	DTPA extraction and AAS	< 0.6	Low	
				0.6-1.2	Normal	
				> 1.2	high	5.3
15	Ferrous	ppm	DTPA extraction and AAS	< 4.5	Low	3.4
				4.5-7.5	Normal	
				> 7.5	high	
16	Manganese	ppm	DTPA extraction and AAS	< 3.5	Low	
				3.5-4	Normal	
				> 4	high	5.2
17	Boron	ppm	Acid extractic and azomethine H spectrophotometer	< 0.5	Low	
				0.5-1.0	Normal	0.56
				> 1.0	High	
18	Exchangeable sodium percentage	%	..	< 10	Low	
				10-20	Normal	14
				20-30	High	
				< 30	Very high	

## **General Recommendation**

### **1. Physical Status of Soil :-**

To improve and maintain physical status of soil. Organic matter to be incorporated in the soil regularly. Regular use of various type of cakes (neem /mahua /karanj) will help in improving physical status of soil. Application of organic manures viz., compost form yard manure and green manure improve soil physical properties through improvement of soil organic matter. the increase plant biomass produced by fertilizer, result in increased return of organic material to soil in the form of decaying roots. Litter and crops residues.

### **2. Chemical Status of soil :-**

The fertilizer application need to be done based on soil and water test result. this will ensure adequate supply of require nutrients to growing plants and avoid excessive use/toxicity of nutrients. Maximum use of organic manures will reduced dependency on chemical fertilizers and will be help full in maintaining soil health.

pH level of soil is Saline. In vegetables plants of soil normally maintain soil pH level is slightly acidic to saline. or pH value of soil is **6.00 to 7.5** . that's value of pH of soil is more comfortable for vegetables plants. In this levels of pH all essential nutrient occur in sufficient quantity in soil. If pH levels are high so use 1.5kg sulfuric acid along with irrigation water is compulsory daily basis.

Nitrogen content of the soil is low. it is recommended to increase dose of Nitrogenous Fertilizers such As Nitrate, Ammonical Nitrogen ,urea.

Among the micronutrients, Zinc and copper and mengine are at slightly toxic level hence their use needs to be reduced. And Ferrous level is low .it is recommended to increase dose of Iron Based Fertilizers.

### **3. Biological Status of Soil :-**

Regular use of nitrogen fixing, phosphorus solubilizing and potash mobilizing bacteria during rainy season will ensure sufficient population of beneficial microorganisms in the soil.