

# K.J. Somaiya Institute of Applied Agricultural Research

Taluk: Rabakavi-Banahatti

Sameerwadi-587 316

Dt: Bagalkot

Farmer Name:	NAIK URF PATIL SHARADA RAVASAB			Cultivator Code No.	153227
Cluster/Village	MUGALKHOD-(FNW)/PALABHAVI				
Survey No.	193 /1	Plot No.	13	Area:	1
Soil Type	HEAVY	Next Crop	SUGAR CANE	Irrigation Source:	RIVER
Date of Sampling	2024-04-07	Lab No.	12548	Date of Report	2024-04-07

## Soil Test Results

Sr No.	Parameters	Test Result	Low	Medium	High
I.Chemical					
1	pH(2:5)	3	<6.5	6.5 - 7.5	> 7.5
2	Electrical Conductivity(ds/m)	3	<1.0	1.0 - 2.0	2.0
II.Major/Macronutrients					
4	Organic Corbon (%)	3	<0.5	0.5 - 1.0	> 1.0
5	Nitrogen(Kg/Acre)-N	3	<112.0	112 - 224	>224
6	Phosphorus(kg/Acre)-P	3	<8.0	8.0-20.0	>20.0
7	Potash(kg.Acre)-K	3	<45.5	45.5 - 134	>134.0
III.Secondary Nutrients					
9	Calcium(Ca) %	3	<0.1	0.1 - 1.0	>1.0
10	Magnesium(Mg) %	3	<0.1	0.1 - 0.4	>0.4
11	Sulphur(S) PPM	3	<10	10 - 20	>20
IV.Micronutrients					
13	Copper(cu) PPM	3	--	0.2	--
14	Manganese(Mn) PPM	3	--	1.0	--
15	Iron(Fe) PPM	3	--	2.5	--
16	Zinc (Zn) PPM	3	--	0.6	--
17	Sodium(Na) PPM	3	--	--	--

## Recommendations

### Soil Reclamation

1	Gypsum (tonne/acre)	0.0	-	-	-
OR					
2	Sulphur (tonne/acre)	0.0	-	-	-

Sr No	Biofertilizers	Quantity
1	Azospirillum (N-Fixer) (kg/acre)	4.0
2	Bacilus Megatarium (P-Solubilizer) (kg/acre)	4.0

### Organic Manures

Sr No	Manure	Quantity
1	Farm Yard Manure (FYM) (tonne/acre)	10.0
2	Bhumilabh (tonne/acre)	2.0

SOIL TEST BASED NUTRIENT RECOMMENDATIONS

Sugarcane Season	Adsali	Pre-seasonal	Seasonal
Sugarcane Yield Target (tonne/acre)	70	50	40

Nutrient (kg/acre)

	302.6	234	186.4
	190.5	135.9	108.6
	82.1	57.4	45

Recommended dose of straight and complex fertilizers (kg/acre)

Sugarcane Season	Adsali			Pre-seasonal			Seasonal		
COMBINATION-01									
Time Of Application	UREA	DAP	MOP	UREA	DAP	MOP	UREA	DAP	MOP
Total	588	178.5	317.5	459.9	124.8	226.5	366.9	97.8	181
AT PLANTING	58.8	178.5	31.8	46	124.8	22.7	36.7	97.8	18.1
30-40 DAYS	117.6	0	63.5	92	0	45.3	73.4	0	36.2
60-75 DAYS	117.6	0	63.5	92	0	45.3	73.4	0	36.2
100-120 DAYS	147	0	79.4	115	0	56.6	91.7	0	45.3
150-180 DAYS	147	0	79.4	115	0	56.6	91.7	0	45.3
COMBINATION-02									
Time Of Application	UREA	SSP	MOP	UREA	SSP	MOP	UREA	SSP	MOP
Total	657.8	513.1	317.5	508.7	358.8	226.5	405.2	281.3	181
AT PLANTING	65.8	513.1	31.8	50.9	358.8	22.7	40.5	281.3	18.1
30-40 DAYS	131.6	0	63.5	101.7	0	45.3	81	0	36.2
60-75 DAYS	131.6	0	63.5	101.7	0	45.3	81	0	36.2
100-120 DAYS	164.4	0	79.4	127.2	0	56.6	101.3	0	45.3
150-180 DAYS	164.4	0	79.4	127.2	0	56.6	101.3	0	45.3
COMBINATION-03									
Time Of Application	UREA	12 : 32 : 16	MOP	UREA	12 : 32 : 16	MOP	UREA	12 : 32 : 16	MOP
Total	557.4	256.6	249.1	438.5	179.4	178.7	350.2	140.6	143.5
AT PLANTING	55.7	256.6	24.9	43.9	179.4	17.9	35	140.6	14.4
30-40 DAYS	111.5	0	49.8	87.7	0	35.7	70	0	28.7
60-75 DAYS	111.5	0	49.8	87.7	0	35.7	70	0	28.7
100-120 DAYS	139.3	0	62.3	109.6	0	44.7	87.5	0	35.9
150-180 DAYS	139.3	0	62.3	109.6	0	44.7	87.5	0	35.9
COMBINATION-04									
Time Of Application	UREA	10 : 26 : 26	MOP	UREA	10 : 26 : 26	MOP	UREA	10 : 26 : 26	MOP
Total	589.2	315.8	180.7	460.7	220.8	130.8	367.6	173.1	106
AT PLANTING	58.9	315.8	18.1	46.1	220.8	13.1	36.8	173.1	10.6
30-40 DAYS	117.8	0	36.1	92.1	0	26.2	73.5	0	21.2
60-75 DAYS	117.8	0	36.1	92.1	0	26.2	73.5	0	21.2
100-120 DAYS	147.3	0	45.2	115.2	0	32.7	91.9	0	26.5
150-180 DAYS	147.3	0	45.2	115.2	0	32.7	91.9	0	26.5

Micronutrients

Sr No	Fertilizers	Quantity (kg/acre)
0	ZINC SULPHATE (KG. / ACRE)	0
1	MANGANESE SULPHATE	0
2	COPPER SULPHATE	0

Sr No	Fertilizers	Quantity (kg/acre)
3	BORON	0
4	Sodium(Na)	0

Soil Scientist (KIAAR)	Director (KIAAR)
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