K.J. Somaiya Institute of Applied Agricultural Research

Taluk: Rabakavi-Banahatti Sameerwadi-587 316 Dt: Bagalkot

Farmer Name:	NAIF	K 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		_ L			
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	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)

Adsali		Pre-seasonal		Seasonal				
UREA	DAP	МОР	UREA	DAP	МОР	UREA	DAP	МОР
588	178.5	317.5	459.9	124.8	226.5	366.9	97.8	181
58.8	178.5	31.8	46	124.8	22.7	36.7	97.8	18.1
117.6	0	63.5	92	0	45.3	73.4	0	36.2
117.6	0	63.5	92	0	45.3	73.4	0	36.2
147	0	79.4	115	0	56.6	91.7	0	45.3
147	0	79.4	115	0	56.6	91.7	0	45.3
UREA	SSP	МОР	UREA	SSP	МОР	UREA	SSP	МОР
657.8	513.1	317.5	508.7	358.8	226.5	405.2	281.3	181
65.8	513.1	31.8	50.9	358.8	22.7	40.5	281.3	18.1
131.6	0	63.5	101.7	0	45.3	81	0	36.2
131.6	0	63.5	101.7	0	45.3	81	0	36.2
164.4	0	79.4	127.2	0	56.6	101.3	0	45.3
164.4	0	79.4	127.2	0	56.6	101.3	0	45.3
UREA	12 : 32 : 16	МОР	UREA	12 : 32 : 16	МОР	UREA	12 : 32 : 16	МОР
557.4	256.6	249.1	438.5	179.4	178.7	350.2	140.6	143.5
557.4 55.7	256.6 256.6	249.1 24.9	438.5 43.9	179.4 179.4	178.7 17.9	350.2 35	140.6 140.6	143.5 14.4
55.7	256.6	24.9	43.9	179.4	17.9	35	140.6	14.4
55.7 111.5	256.6 0	24.9 49.8	43.9 87.7	179.4 0	17.9 35.7	35 70	140.6 0	14.4
55.7 111.5 111.5	256.6 0 0	24.9 49.8 49.8	43.9 87.7 87.7	179.4 0 0	17.9 35.7 35.7	35 70 70	140.6 0 0	14.4 28.7 28.7
55.7 111.5 111.5 139.3	256.6 0 0	24.9 49.8 49.8 62.3	43.9 87.7 87.7 109.6	179.4 0 0	17.9 35.7 35.7 44.7	35 70 70 87.5	140.6 0 0	14.4 28.7 28.7 35.9
55.7 111.5 111.5 139.3	256.6 0 0	24.9 49.8 49.8 62.3	43.9 87.7 87.7 109.6	179.4 0 0	17.9 35.7 35.7 44.7	35 70 70 87.5	140.6 0 0	14.4 28.7 28.7 35.9
55.7 111.5 111.5 139.3 139.3	256.6 0 0 0 0	24.9 49.8 49.8 62.3 62.3	43.9 87.7 87.7 109.6 109.6	179.4 0 0 0 0	17.9 35.7 35.7 44.7 44.7	35 70 70 87.5 87.5	140.6 0 0 0 0	14.4 28.7 28.7 35.9 35.9
55.7 111.5 111.5 139.3 139.3	256.6 0 0 0 0	24.9 49.8 49.8 62.3 62.3	43.9 87.7 87.7 109.6 109.6	179.4 0 0 0 0 0 10:26:26	17.9 35.7 35.7 44.7 44.7	35 70 70 87.5 87.5	140.6 0 0 0 0	14.4 28.7 28.7 35.9 35.9
55.7 111.5 111.5 139.3 139.3 UREA 589.2	256.6 0 0 0 0 10:26:26 315.8	24.9 49.8 49.8 62.3 62.3 MOP 180.7	43.9 87.7 87.7 109.6 109.6 UREA 460.7	179.4 0 0 0 0 0 10: 26: 26 220.8	17.9 35.7 35.7 44.7 44.7 MOP 130.8	35 70 70 87.5 87.5 UREA 367.6	140.6 0 0 0 0 10:26:26 173.1	14.4 28.7 28.7 35.9 35.9 MOP 106
55.7 111.5 111.5 139.3 139.3 UREA 589.2 58.9	256.6 0 0 0 0 10:26:26 315.8 315.8	24.9 49.8 49.8 62.3 62.3 MOP 180.7	43.9 87.7 87.7 109.6 109.6 UREA 460.7 46.1	179.4 0 0 0 0 10: 26: 26 220.8 220.8	17.9 35.7 35.7 44.7 44.7 MOP 130.8 13.1	35 70 70 87.5 87.5 UREA 367.6 36.8	140.6 0 0 0 0 10: 26: 26 173.1 173.1	14.4 28.7 28.7 35.9 35.9 MOP 106 10.6
55.7 111.5 111.5 139.3 139.3 UREA 589.2 58.9 117.8	256.6 0 0 0 0 10:26:26 315.8 315.8	24.9 49.8 49.8 62.3 62.3 MOP 180.7 18.1 36.1	43.9 87.7 87.7 109.6 109.6 UREA 460.7 46.1 92.1	179.4 0 0 0 0 10: 26: 26 220.8 220.8	17.9 35.7 35.7 44.7 44.7 MOP 130.8 13.1 26.2	35 70 70 87.5 87.5 UREA 367.6 36.8 73.5	140.6 0 0 0 0 10: 26: 26 173.1 173.1	14.4 28.7 28.7 35.9 35.9 MOP 106 10.6 21.2
	588 58.8 117.6 117.6 147 147 UREA 657.8 65.8 131.6 131.6 164.4 164.4	588 178.5 58.8 178.5 117.6 0 117.6 0 147 0 447 0 UREA SSP 657.8 513.1 65.8 513.1 131.6 0 164.4 0 164.4 0	588 178.5 317.5 58.8 178.5 31.8 117.6 0 63.5 117.6 0 63.5 147 0 79.4 147 0 79.4 UREA SSP MOP 657.8 513.1 317.5 65.8 513.1 31.8 131.6 0 63.5 131.6 0 63.5 164.4 0 79.4 164.4 0 79.4	588 178.5 317.5 459.9 58.8 178.5 31.8 46 117.6 0 63.5 92 117.6 0 63.5 92 147 0 79.4 115 147 0 79.4 115 UREA SSP MOP UREA 657.8 513.1 317.5 508.7 65.8 513.1 31.8 50.9 131.6 0 63.5 101.7 131.6 0 63.5 101.7 164.4 0 79.4 127.2 164.4 0 79.4 127.2	588 178.5 317.5 459.9 124.8 58.8 178.5 31.8 46 124.8 117.6 0 63.5 92 0 117.6 0 63.5 92 0 147 0 79.4 115 0 147 0 79.4 115 0 UREA SSP MOP UREA SSP 657.8 513.1 317.5 508.7 358.8 65.8 513.1 31.8 50.9 358.8 131.6 0 63.5 101.7 0 131.6 0 63.5 101.7 0 164.4 0 79.4 127.2 0 164.4 0 79.4 127.2 0	588 178.5 317.5 459.9 124.8 226.5 58.8 178.5 31.8 46 124.8 22.7 117.6 0 63.5 92 0 45.3 117.6 0 63.5 92 0 45.3 147 0 79.4 115 0 56.6 147 0 79.4 115 0 56.6 WREA SSP MOP WREA SSP MOP 657.8 513.1 317.5 508.7 358.8 226.5 65.8 513.1 31.8 50.9 358.8 22.7 131.6 0 63.5 101.7 0 45.3 131.6 0 63.5 101.7 0 45.3 164.4 0 79.4 127.2 0 56.6 164.4 0 79.4 127.2 0 56.6	588 178.5 317.5 459.9 124.8 226.5 366.9 58.8 178.5 31.8 46 124.8 22.7 36.7 117.6 0 63.5 92 0 45.3 73.4 117.6 0 63.5 92 0 45.3 73.4 147 0 79.4 115 0 56.6 91.7 147 0 79.4 115 0 56.6 91.7 UREA SSP MOP UREA 657.8 513.1 317.5 508.7 358.8 226.5 405.2 65.8 513.1 31.8 50.9 358.8 22.7 40.5 131.6 0 63.5 101.7 0 45.3 81 131.6 0 63.5 101.7 0 45.3 81 134.4 0 79.4 127.2 0 56.6 101.3 164.4 0 79.4 127.2 0 56.6 101.3	588 178.5 317.5 459.9 124.8 226.5 366.9 97.8 58.8 178.5 31.8 46 124.8 22.7 36.7 97.8 117.6 0 63.5 92 0 45.3 73.4 0 117.6 0 63.5 92 0 45.3 73.4 0 147 0 79.4 115 0 56.6 91.7 0 147 0 79.4 115 0 56.6 91.7 0 UREA SSP MOP UREA SSP 657.8 513.1 317.5 508.7 358.8 226.5 405.2 281.3 65.8 513.1 31.8 50.9 358.8 22.7 40.5 281.3 131.6 0 63.5 101.7 0 45.3 81 0 131.6 0 63.5 101.7 0 45.3 81 0 164.4 0 79.4 127.2 0 56.6 101.3 0

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)