

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.	10	Area:	5
Soil Type	BLACK	Next Crop	SUGAR CANE	Irrigation Source:	WELL_CANAL
Date of Sampling	2024-10-08	Lab No.	12381	Date of Report	2024-10-08

Soil Test Results

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

Recommendations

Soil Reclamation

1	Gypsum (tonne/acre)	3.4	-	-	-
OR					
2	Sulphur (tonne/acre)	0.64	-	-	-

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

REMARKS

SOIL TEST BASED NUTRIENT RECOMMENDATIONS

Sugarcane Season	Adsali	Pre-seasonal	Seasonal
Sugarcane Yield Target (tonne/acre)	70	50	40
NITROGEN	301	232	185
PHOSPHORUS	80	55	43
POTASH (K2O)	190	135	108

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

Sugarcane Season	Adsali			Pre-seasonal			Seasonarl		
COMBINATION-01									
Time Of Application	UREA	DAP	MOP	UREA	DAP	MOP	UREA	DAP	MOP
Total	586	175	317	458	121	226	365	94	180
AT PLANTING	58	175	31	45	121	22	36	94	18
30-40 DAYS	117	0	63	91	0	45	73	0	36
60-75 DAYS	117	0	63	91	0	45	73	0	36
NOT FOUND	146	0	79	114	0	56	91	0	45
NOT FOUND	146	0	79	114	0	56	91	0	45
COMBINATION-02									
Time Of Application	UREA	SSP	MOP	UREA	SSP	MOP	UREA	SSP	MOP
Total	654	503	317	505	348	226	402	271	180
AT PLANTING	65	503	31	50	348	22	40	271	18
30-40 DAYS	130	0	63	101	0	45	80	0	36
60-75 DAYS	130	0	63	101	0	45	80	0	36
NOT FOUND	163	0	79	126	0	56	100	0	45
NOT FOUND	163	0	79	126	0	56	100	0	45
COMBINATION-03									
Time Of Application	UREA	12 : 32 : 16	MOP	UREA	12 : 32 : 16	MOP	UREA	12 : 32 : 16	MOP
Total	556	251	250	437	174	179	349	135	144
AT PLANTING	55	251	25	43	174	18	34	135	14
30-40 DAYS	111	0	50	87	0	35	69	0	28
60-75 DAYS	111	0	50	87	0	35	69	0	28
NOT FOUND	139	0	62	109	0	44	87	0	36
NOT FOUND	139	0	62	109	0	44	87	0	36
COMBINATION-04									
Time Of Application	UREA	10 : 26 : 26	MOP	UREA	10 : 26 : 26	MOP	UREA	10 : 26 : 26	MOP
Total	587	310	182	459	214	133	365	166	108
AT PLANTING	58	310	18	45	214	13	36	166	10
30-40 DAYS	117	0	36	91	0	26	73	0	21
60-75 DAYS	117	0	36	91	0	26	73	0	21
NOT FOUND	146	0	45	114	0	33	91	0	27
NOT FOUND	146	0	45	114	0	33	91	0	27

Micronutrients

Sr No	Fertilizers	Quantity (kg/acre)
1	ZINC SULPHATE (KG. / ACRE)	4
2	MANGANESE SULPHATE	4
3	COPPER SULPHATE	4
4	BORON	0
5	FERROUS SULPHATE	4

Soil Scientist (KIAAR)	Director (KIAAR)
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