**Kenya Agricultural & Livestock Research Organization**
**National Agricultural Research Laboratories**
P. O. Box 14733, 00800 NAIROBI
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## SOIL TEST REPORT

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|---|---|
| Name | Misheni Farmers Group |
| Address | c/o KALRO Matuga, P. O. Box 4 - 80406 |
| Location of farm | Kasemeni, Kinango, Kwale |
| Crop(s) to be grown | Rice, sorghum, groundnut |
| Date sample received | 6-Dec-2022 |
| Date sample reported | 16-Dec-2022 |

| | Soil Analytical Data | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Field | **Block 1** | | | | | | | |
| Lab. No/2022 | 9188 | | | | | | | |
| Soil depth cm | top | | | | | | | |
| Fertility results | value | class | value | class | value | class | value | class |
| Soil pH | 5.94 | medium acid | | | | | | |
| Total Nitrogen % | 0.12 | low | | | | | | |
| Total Org. Carbon % | 1.41 | moderate | | | | | | |
| Phosphorus ppm | 4.7 | low | | | | | | |
| Potassium meq% | 0.24 | adequate | | | | | | |
| Calcium meq% | 4.3 | adequate | | | | | | |
| Magnesium meq% | 2.89 | adequate | | | | | | |
| Manganese meq% | 0.04 | low | | | | | | |
| Copper ppm | 0.63 | low | | | | | | |
| Iron ppm | 17.3 | adequate | | | | | | |
| Zinc ppm | 0.76 | low | | | | | | |
| Sodium meq% | 0.50 | adequate | | | | | | |

## Interpretation and Fertilizer Recommendation

The soil reaction (pH) is satisfactory for crops growth. Nitrogen, phosphorus, manganese, copper and zinc are deficient. Soil organic matter content should be improved. At land preparation apply 2 ton/acre of well decomposed manure or compost, 10 kg/acre of manganese sulphate, 5 kg/acre of copper sulphate and 10 kg/acre of zinc sulphate. Mix well with the soil. **Rice:** Before transplanting broadcast 150 kg/acre of N:P:K 23:23:0. At 43-58 days after transplanting (at panicle initiation stage) apply 50 kg/acre of ammonium sulphate (AS). **Sorghum:** At planting time apply 150 kg/acre of N:P:K 23:23:0. Three weeks after sowing top dress with 50 kg/acre of CAN. **Groundnut:** At planting time apply by incorporation into the soil along the ridges 150 kg/acre of N:P:K 23:23:0. At flowering (7 to 8 weeks after planting) broadcast over the plants 50 kg/acre of gypsum.

**NOTE:** Test results are based on customer sampled sample(s).
Methods used: Information is given out on client's request.

Reporting officer (through Director NARL) A. Chek