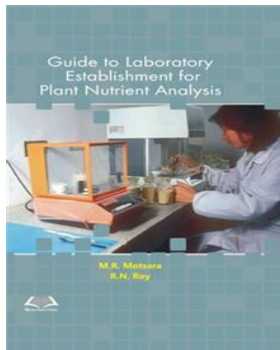


Guide to Laboratory Establishment for Plant Nutrient Analysis

M.R. Motsara & R.N. Roy



ISBN	: 9789383692095	Book Format	: Book
E-ISBN	: 9789388148337	Binding	: Hard Bound
Language	: English	Edition	: 1
Imprint	: United Book Print	© Year	: 2015
Pages	: 220	Trim Size	: 5.75 X 8.75
Weight	: 495 Gms		

Print Book : ~~₹2,250.00~~ **₹2,025.00** 10%Off

Individual E Book : **₹2,925.00**

Institutional E Book : **Price available on request**

Blurb

The book provides practical guidelines on establishing laboratories for the analysis of soil, plants, water and fertilizers (mineral, organic and biofertilizers). A manual with simple procedural steps, considered most suitable to provide help to the laboratory technicians. It provides various analytical methods for estimating soil constituents with the objective of assessing soil fertility and making nutrient recommendations. It describes methods for analysing plant constituents in order to determine the contents of various nutrients and the need for their application. For assessing the quality of irrigation water, it presents standard methods for estimating the various parameters and constituents utilized, e.g. electrical conductivity, sodium adsorption ratio, residual sodium carbonate, the ratio of magnesium to calcium, and boron content. In providing the methodology for fertilizer analysis, special consideration has been given to the fact that fertilizers are often statutorily controlled commodities and are traded widely among countries. The book is useful for students of agriculturer administrators and planners to establishing laboratory, and to technicians through providing detailed and precise procedures for estimations.

Table of Contents

Acknowledgements

Preface

List of acronyms, abbreviations and chemical symbols

1. Introduction

2. The basics of an analytical laboratory

3. Soil analysis

4. Plant analysis

5. Water analysis

6. Mineral and organic fertilizer analysis

7. Biofertilizer assay and production

References and further reading

Annexes

1. Floor plan of a soil, plant, water and fertilizer analysis laboratory

2. Floor plan of a biofertilizer laboratory and production unit

3. Items required for a soil, plant and water analysis laboratory

4. Items required for a fertilizer testing laboratory

5. Items required for a microbiological laboratory

6. Summary of plant nutrient estimation methods

7. Automation of analytical procedures

8. Examples of laboratory registers

9. Grades of chemicals and glassware

10. Equivalent and molecular weights of compounds
11. Soil sample information sheet
12. Colour change of solutions owing to pH change
13. Glossary of biofertilizer terms
14. Units and conversion factors

This is computer generated document and does not require signature

Scientific Publishers

Date :- Thu Dec 02 2021