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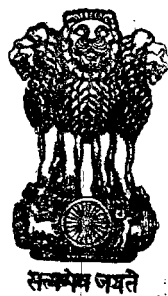
THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH

BIBLIOGRAPHY
OF
SOIL SCIENCE AND FERTILIZERS
WITH
REFERENCE TO INDIA

compiled by

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PREFACE

IN the domain of agricultural science, the plant is the central figure which concerns primarily and around which revolve the activities of all agricultural scientists. The cultivation of food crops is an ancient art, but with the growth of population and the eventual pressure on land the importance of growing more crops, to keep the ever increasing population fed, was brought to the forefront in the programme of world economy. Growing crops continuously on a soil, which is the principal source of plant food, tends gradually to impoverish the soil after a certain time. This tendency coupled with the difficulty in making the plant foods easily available to the crops presented problems which required the attention of scientists. This is how science was brought to bear upon the problems of agriculture in the beginning of the 19th century. To the mineral theory of plant nutrition propounded by Leibig and the advent of Lawes and Gilbert in the field of scientific agriculture together with other pioneers on the Continent, may be traced the birth of modern agricultural science in relation to crops and soils.

India, however, followed suit about half-a-century later. The Geological Survey of India which was founded in the year 1846 was perhaps the pioneer in India in the study of her soils from the geological and mineralogical points of view. The first paper on the subject was published by the Survey in 1860 although actually Buchanan-Hamilton, a traveller, published in 1807 a book dealing with the geology of the South Indian soils. The work continued until 1895 when the geological study began to be supplemented by the examination of soils and crops in their mutual relationship. This was actually the beginning of the scientific study of soils and crops in India. Since then advances in this direction have been made with a strident pace, and the agricultural scientists scattered over this vast sub-continent have been making contributions adding newer knowledge to the subject. The subject has become so vast in scope and complex in variety that for any investigator to keep pace with the rapid march of knowledge, incorporated in a variety of periodical literature published in or outside India, is a matter of extreme difficulty unless the information has been fully and minutely indexed in a library and issued for general circulation. In this regard the Imperial Bureau of Soil Science has been rendering a signal service. But as they started with the year 1931 leaving out the references previous to that date and as much information contained in the annual reports issued by the various departments of agriculture

which are regarded as very valuable is not included in their purview, the scientists especially those in India where good libraries are more an exception than a rule are placed at a disadvantage which cannot be easily obviated.

The only solution of this problem appeared to be to compile a consolidated bibliography of all literature pertaining to India on soils and fertilizers so that the Indian research workers in this field might be aware of what has been achieved and what remains to be achieved. With this end in view the compilation of this bibliography was undertaken about four years ago, and has now been brought up to the end of 1942. Every endeavour was made to make the bibliography complete, and with the exception of certain unimportant references it is believed that the bibliography will have achieved its object. If certain important references have escaped the notice of the compiler, it is not due to his lack of earnestness but may be a matter of unintentional omission which can be made good by the consultants themselves. It is hoped that this bibliography will serve them well.

New Delhi

K. K. GUHA ROY

1 January, 1944

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