

The nature of its plastid-like DNA, expression of the genome and its physiological role in apicomplex are discussed. Although our knowledge on these two fascinating plastids is still limited, this chapter provides a new dimension to photosynthesis research that needs further attention. The last three chapters describe the responses of the plastid to environmental factors like gravitation, light and oxygen. Palmieri and Kiss describe gravitation responses, Sato and Kadota describe light responses, whereas Logan discusses oxygen responses. Light-induced chloroplast movements mediated by different photoreceptors, and molecular mechanism of the receptors' action, have been reviewed earlier in advanced-level books on plant physiology.

This is the first book in the *Advances in Photosynthesis and Respiration* series (Series Editor, Govindjee) that comprehensively describes the complete story of plastids, including their diversity, origin, evolution, interconversion, different physiological functions, communicating systems with other cellular organelles and their responses to various environmental factors. The chapters covering these areas provide the most recent and relevant information.

A complete 'Table of contents' of this book is available at: <http://www.life.uiuc.edu/govindjee/References/Volume%2023%20By%20Chapter.htm>. Members of the International Society of Photosynthesis Research (website: <http://www.photosynthesisresearch.org/>) receive a 25% discount.

Although the book succeeds in providing a broad view of the structure and function of plastids to students and researchers in chemistry and biology, some of the chapters are specifically designed for advanced students in the fields of photosynthesis, molecular biology, biochemistry and plant physiology. Several chapters are suited for use as textbook materials for courses in plant physiology. We recommend this book to all major libraries.

BASANTI BISWAL^{1,*}
U. C. BISWAL²

¹*School of Life Sciences,
Sambalpur University,
Jyotivihar 768 019, India*

²*Biology Enclave, Basant Vihar,
P.O. Jyotivihar 768 019, India
e-mail: basanti6@sancharnet.in

Geology of Haryana and Delhi. Jawahar Lal Thussu. Geological Society of India, P.B. No. 1922, Gavipuram PO, Bangalore 560 019. 2006, 191 pp. Price: Rs 250; US\$ 25.

The book under review provides useful compiled information with figures and tables on the subject with a reasonably priced tag. It is part of the ongoing activities of the present publisher to bring out the geology of various states in India as a textbook series.

The book consists of two parts which describes the geology of Haryana and Delhi respectively. Part I consists of 12 chapters in 145 pages. Chapter 1 provides the introductory aspects on Haryana, viz. history, location, climate, industries, geological investigation. Chapters 2 and 3 deal with the geomorphic landforms and geological history of Haryana respectively. It illustrates the region as a vast featureless Indo-Gangetic Plain separated by two contrasting litho-tectonic assemblages embedded in the oldest (Aravallis) and youngest (Himalaya) mountain in India. Chapter 4 describes in detail (in 50 pages – largest chapter in this book) the geology of Haryana. It demonstrates that geologically 95% of Haryana is covered by Quaternary sediments and the rest 5% by Proterozoic rocks. Chapter 5 highlights the palaeontological studies mainly in the Siwalik sediments. Chapter 6 provides the various geophysical techniques employed in Haryana for mineral exploration, basement topography evaluation, engineering–environmental projects, geothermal exploration and other investigations. Chapter 7 deals with mineral resources and their occurrence in Haryana. Tin mineral exploration at Tosham, Bhiwani District, Haryana besides other economic metallic and nonmetallic minerals at various places are also provided. Chapter 8 explains the various geoenvironment evaluations (natural and anthropogenic hazards) with respect to rapid urbanization and industrial growth in Haryana. Chapter 10 accounts for groundwater aspects of Haryana, viz. water chemistry (types of water, ratios, correlation) and origin of salinity (classification, cluster analysis, factor analysis). Chapter 11 deals with drainage migration in the Indo-Gangetic Plain of Punjab–Haryana. Chapter 12 exposes the various problems, gaps and remedial measures with respect to geology, basement configuration, geophysics, salinity, copper and iron mineralization,

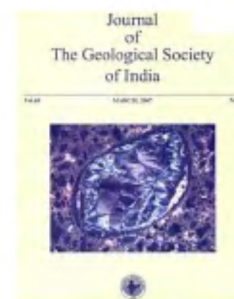
desertification, modification of landforms due to quarrying, urbanization, etc.

Part II of the book consists of nine chapters in 26 pages. It deals with the introduction, physiography, geological investigation, geology, mineral resources, groundwater, geophysical survey and geo-environment evaluation with possible remedies in Delhi.

The information in the book is based on work (unpublished in journals) carried out by mostly Officers of the Geological Survey of India (GSI) in the last few decades. The references cited include mostly unpublished GSI reports. However, as the book is based mostly on unpublished work, the cited references in the book are not generally available for the readers to seek clarification/any enhanced information on the subject matter. Thus the book does not provide the readers with complete information on the subject. A little more care by the author and editor would have helped to avoid spelling and grammatical errors. The book is recommended for the general public as well as specialists interested in the exploration and management of various earth resources, geo-environment monitoring and urban development in the Haryana and Delhi.

G. VALLINAYAGAM

*Department of Geology,
Kurukshetra University,
Kurukshetra 136 119, India
e-mail: gvallinayagam@rediffmail.com*



Special Issue on Kimberlite and Related Rocks of India. Fareeduddin and M. S. Rao (Guest Editors). Geological Society of India, No. 63, 12th Cross, P.B. No. 1922, Gavipuram, Bangalore 560 019. Vol. 69, 2007, 261 pp. Price: Rs 20.

The special issue under review comprises papers presented at a Group Discussion on Kimberlites and Related Rocks of India organized by the Geological Society of