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A BIBLIOGRAPHY
OF
INDIAN GEOLOGY;

BEING

A LIST OF BOOKS AND PAPERS,

RELATING TO THE

GEOLOGY OF BRITISH INDIA AND ADJOINING
COUNTRIES,

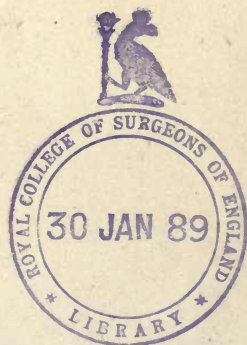
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COMPILED BY

R. D. OLDHAM, A.R.S.M., F.G.S.,

DEPUTY SUPERINTENDENT OF THE GEOLOGICAL SURVEY OF INDIA.

PRELIMINARY ISSUE.



CALCUTTA:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRINTING, INDIA.
1888.

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PUBLISHED BY THE
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ROYAL COLLEGE OF SURGEONS OF ENGLAND

EDITED BY

R. D. OLIPHANT, F.R.S., F.G.S.

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NOTICE.

The author of the Bibliography having compiled the work entirely of his own taste and at his leisure, I cannot but express my thanks for his presentation of it to the Survey. Apart from the value of such a work to us, the aid it will surely afford to geologists in, and beyond, India makes its issue as one of the publications of the Survey a necessity also.

WILLIAM KING,
Director, Geological Survey of India.

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PREFACE.

THE catalogue of books and papers contained in the following pages was commenced by me three years ago, and has been compiled in the spare time of a few short visits to Calcutta since then.

Under these circumstances uniformity or completeness would be impossible, but it is believed that the catalogue is now practically complete, except, perhaps, as regards palæontology, and that, while perhaps several papers may have been wrongly included, few, if any, of importance are omitted.

The geographical limits selected have been those of the territory subject to the Governor General and the States with which he has direct diplomatic relations; but it has been found advisable in some cases to overstep these limits and to include papers relating to countries outside them. In such cases only those papers have been included which have a more or less direct bearing on the geology of the territories with which this catalogue is directly concerned.

Besides purely geological papers there will be found many that deal principally with geography, archæology, botany, &c., which have been included on account of some isolated or scattered geological observations contained in them. In these cases it has often been difficult to determine whether a paper should be included or not; the general principle followed has been that where the notices are of early date, compared with our more complete knowledge of the region, they are included: but where of date subsequent to a tolerably complete account, and, consequently, wanting in fullness, originality, or accuracy, they have been excluded. Thus, the papers of this class will be found to be, for the most part,

either of early date and dealing with districts now more or less well known, or modern and dealing with regions regarding which every scrap of information is still valuable. In applying this principle there is great room for individual differences of opinion, and it is possible that many papers have been wrongly admitted and others wrongly omitted.

Besides the papers catalogued there are many references to geology and economic mineralogy in the various gazetteers, district hand-books, settlement reports, &c., issued by Government. Where these are mere compilations at second or third hand by non-geological writers they have not been inserted, but where original or written by those who have a practical acquaintance with the subject they deal with they have been inserted.

The entries are arranged alphabetically according to the names of the authors, or, in the case of anonymous papers, under the name of the subject with which they deal. In order to ensure uniformity all names beginning with De, D', Du, Della, &c., O, Mac, Fitz, &c., have been indexed under the prefix, as this is in some cases invariably, in others frequently, an integral part of the word; in the case of the German prefix *von*, this has not been done. For the same reason compound names have always been indexed under the second half of the name, but, in the case of compound names and names with prefixes, cross references have been inserted in all cases where strict adherence to the rule would lead to delay or confusion. Papers of joint authorship are indexed according to that author's name which has alphabetical priority. They are, however, repeated, if necessary, after the papers of which the other author may be the sole writer.

Under each author's name the papers are arranged in chronological order, except that papers published in the same volume of the same periodical are arranged consecutively. Except where too long for complete reproduction, the author's title has been given in full; where too long the essential part

has been given ; and where it has been necessary to invent or amplify a title, the words added are inserted in square brackets ; round brackets indicate part of the original title.

Following on the title come the references ; of these the first is to the original publication in full of the paper ; where more than one is given the second is usually to an abstract published in advance of publication in full, and will be recognised by its earlier date and greater brevity ; following on this come reprints or notices arranged in chronological order. No reprint or notice has, however, been inserted except where it contains some substantial part of the original paper, or where the original is difficult of access. Where cross references are given they are printed in small capitals.

In abbreviating the names of periodicals, I have endeavoured to put them in such form that the periodical can be immediately recognised, and in those cases where the title is short and only referred to once or twice it has been printed in full. A list of the abbreviations used will be found at the end of this preface.

The manner of indicating volume, page, and date, is that in universal use and does not require explanation.

The limited time at my disposal and the deficiencies of the Calcutta libraries have prevented me from verifying every reference, but, as five-sixths at least have been extracted by myself, and a large number of the rest verified by comparison with the originals, or with the Royal Society's Catalogue, this will probably be of little importance.

In conclusion, I have to thank those numerous authors who have obliged me by correcting the lists of papers written by them and to express my gratitude in advance to all who will point out any errors or omissions in the catalogue.

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LIST OF ABBREVIATED TITLES USED.

[Those marked with an asterisk are not in the library of the Geological Survey or of the Asiatic Society of Bengal: of some of the others the sets are incomplete.]

A

- Abhandl. K. Akad. Wiss. Berlin.**—Abhandlungen der Königl. Akademie der Wissenschaften zu Berlin. 4°, Berlin.
- Abhandl. K. Baier. Akad. Wiss.**—Abhandlungen der Königl. Baierischen Akademie der Wissenschaften zu München. 8°, Munich.
- *Abhandl. Naturhist. ges. Nürnberg.**—Abhandlungen der Naturhistorischen Gesellschaft zu Nürnberg. 8°, Nürnberg.
- Am. Assoc. Proc.**—Proceedings of the American Association for the Advancement of Science. 8°, Salem.
- Am. Jour. Sci.**—The American Journal of Science and Art. 8°, New Haven.
- Ann. de Chimie.**—Annales de Chimie, ou Recueil de Mémoires concernant la Chimie et les Arts qui en dependent. 8°, Paris.
- Ann. der Phys. u. Chem.**—Annalen der Physik und Chemie: von J. C. Poggendorf. 8°, Leipzig.
- Ann. des Mines.**—Annales des Mines, ou Recueil de Mémoires sur l'exploitation des Mines, et sur les Sciences et les Arts qui s'y rapportent. 8°, Paris.
- Ann. Mag. Nat. Hist.**—Annals of Natural History, or Magazine of Zoology, Botany, and Geology. 8°, London.
-
- The Annals and Magazine of Natural History, including Zoology, Botany, and Geology. 8°, London.
- *Ann. Phil.**—Annals of Philosophy, or Magazine of Chemistry, Mineralogy, Mechanics, and the Arts. 8°, London.
- Ann. Sci. Nat.**—Annales des Sciences Naturelles, comprenant la Physiologie animale et Végétale, l'Anatomie comparée des deux regnes, la Zoologie, la Botanique, la Minéralogie, et la Géologie. 8°, Paris.
- As. Res.**—Asiatick Researches, or Transactions of the Society instituted in Bengal for enquiring into the History and Antiquities, the Arts, Sciences, and Literature of Asia. 4°, Calcutta.

B

- Bibl. Univ.**—Bibliothèque Universelle des Sciences, Belles Lettres et Arts, faisant suite à la Bibliothèque Britannique rédigée à Genève. Partie des Sciences. 8°, Geneva.
- Bol. Com. Map. Geol. Españ.**—Boletín de la Comisión del Mapa Geológico de España. Madrid.
- Brit. Ass. Rep.**—Reports of the British Association for the Advancement of Science. 8°, London.
- Bull. Soc. Geogr. Paris.**—Bulletin de la Société de Géographie de Paris. 8°, Paris.
- Bull. Soc. Geol. Paris.**—Bulletin de la Société Géologique de France. 8°, Paris.

C

- Cal. Engin. Jour.**—The Engineer's Journal and Railway Chronicle of India and the Colonies. 4°, Calcutta.
- Cal. Jour. Nat. Hist.**—The Calcutta Journal of Natural History. 8°, Calcutta.
- Chem. News.**—The Chemical News, a Journal of practical chemistry in all its applications to Pharmacy, Arts, and Manufactures. 8°, London.

D

Denk. K. K. Akad. Wiss. Wien.—Denk-schriften der K. K. Akademie der Wissenschaften: Mathematisch-Naturwissenschaftliche classe. 4°, Vienna.

E

***Edin. Jour. Sci.**—The Edinburgh Journal of Science, exhibiting a view of the progress of discovery in Natural Philosophy, Chemistry, Mineralogy, Geology, Botany, &c. 8°, Edinburgh.

Edin. New Phil. Jour.—The Edinburgh New Philosophical Journal, exhibiting a view of the progressive improvements, &c., in the Sciences, &c. 8°, Edinburgh.

Edin. Phil. Jour.—The Edinburgh Philosophical Journal, exhibiting a view of the progress of discovery in Natural Philosophy, &c. 8°, Edinburgh.

F

***Froriep. Notizen.**—Notizen aus dem Gebiete der Natur und Heilkunde. 4°, Erfurt und Weimar.

G

Geol. Mag.—The Geological Magazine or Monthly Journal of Geology. 8°, London.

Geol. Trans.—Transactions of the Geological Society of London. 4°, London.

Glean. Sci.—Gleanings in Science. 8°, Calcutta.

I

Ind. Ann. Med. Sci.—Indian Annals of Medical Science. 8°, Calcutta.

Ind. Economist.—The Indian Economist, a Monthly Journal devoted to Economic and Statistical Inquiries concerning India. 4°, Calcutta.

Ind. Forester.—The Indian Forester. Calcutta, afterwards Roorkee.

Ind. Jour. Arts. Sci.—Indian Journal of Arts, Sciences, and Manufactures. 8°, Madras.

Inland Customs Report.—Report on the Administration of the Imperial Customs Department. Folio, Calcutta.

Iron.—Iron, an Illustrated Weekly Journal of Science, Metals, and Manufactures in Iron and Steel. 4°, London.

J

Jahrb. K. K. Geol. Reichs. Wien.—Jahrbuch der K. K. Geologischen Reichsanstalt. 4°, Vienna.

Jour. Agri. Hort. Soc. Ind.—Journal of the Agricultural and Horticultural Society of India. 8°, Calcutta.

Jour. As. Soc. Beng.—The Journal of the Asiatic Society of Bengal. 8°, Calcutta.

Jour. Bo. As. Soc.—Journal of the Bombay Branch of the Royal Asiatic Society. 8°, Bombay.

Jour. Ceylon As. Soc.—Journal of the Ceylon Branch of the Royal Asiatic Society. 8°, Colombo.

***Jour. de Pharm.**—Journal de Pharmacie et des Sciences Accessoires. 8°, Paris.

Jour. de Phys.—Journal de Physique, de Chimie, et de l'Histoire naturelle. 4°, Paris.

***Jour. des Mines.**—Journal des Mines ou Recueil de Mémoires sur l'exploitation des Mines, et sur les Sciences et les Arts qui s'y rapportent. 8°, Paris.

Jour. Geol. Soc. Dublin.—Journal of the Geological Society of Dublin. 8°, Dublin.

Jour. Ind. Archip.—Journal of the Indian Archipelago and Eastern Asia. 8°, Singapore.

- Jour. Roy. As. Soc.**—Journal of the Royal Asiatic Society of Great Britain and Ireland. 8°, London.
- Jour. Roy. Geog. Soc.**—Journal of the Royal Geographical Society of London. 8°, London.
- Jour. Roy. Geol. Soc. Dublin.**—Journal of the Royal Geological Society of Ireland. 8°, Dublin.
- Jour. Soc. Arts.**—The Journal of the Society of Arts. 4°, London.
- Jour. Straits, As. Soc.**—Journal of the Straits Branch of the Royal Asiatic Society. 8°, Singapore.

L

- ***Lond. Jour. Bot.**—London Journal of Botany and Kew Gardens Miscellany. 8°, London.

M

- Mad. Jour. Lit. Sci.**—Madras Journal of Literature and Science, published under the auspices of the Madras Literary Society and Auxiliary Royal Asiatic Society. 8°, Madras.
- Mad. Mon. Jour. Med. Sci.**—The Madras Monthly Journal of Medical Science. 8°, Madras.
- Mad. Quart. Jour. Med. Sci.**—Madras Quarterly Journal of Medical Science, 8°, Madras.
- Mem. Am. Acad.**—Memoirs of the American Academy of Arts and Sciences. 4°, Cambridge, U. S.
- Mem. Geol. Surv. Ind.**—Memoirs of the Geological Survey of India. 8°, Calcutta.
- Mem. Wern. Soc. Edin.**—Memoirs of the Wernerian Natural History Society. 8°, Edinburgh.
- Mineral Mag.**—The Mineralogical Magazine and Journal of the Mineralogical Society. 8°, London.
- Min. Mitth.**—Mineralogische Mittheilungen gesammelt von Gustav Tschermak. 4°, Vienna. (issued as part of *Jahrb. K. K. Geol. Reichs. Wien*).
- Monatsber. K. Akad. Wiss. Berlin.**—Monatsberichte der K. Preuss. Akademie der Wissenschaften zu Berlin. 8°, Berlin.

N

- Nat. Hist. Rev.**—The Natural History Review and Quarterly Journal of Science. 8°, London and Dublin.
- Nature.**—Nature, a Weekly Illustrated Journal of Science. 4°, London.
- Neu. Jahrb. Min. Geol.**—Neues Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefactenkunde. 8°, Stuttgart.

O

- ***Oesterr. Zeits. Berg. Huttenw.**—Oesterreichische Zeitschrift für Berg und Huttenwesen. 4°, Vienna.

P

- Pal. Indica.**—Memoirs of the Geological Survey of India, *Palæontologia Indica*, being Figures and Descriptions of the Organic remains procured during the progress of the Geological Survey of India. 4°, Calcutta.
- Palæontographica.**—*Palæontographica: Beiträge zur Naturgeschichte der Vorzeit.* 4°, Cassel.
- Pal. Soc.**—Palæontographical Society.
- Petermann Mitth.**—Mittheilungen aus Justus Perthes' Geographischer Anstalt über wichtige neue Erforschungen auf dem gesammten gebiete der Geographie. 4°, Gotha.

- *Pharmaceut. Jour.**—Pharmaceutical Journal and Transactions. 8°, London.
- Phil. Mag.**—The Philosophical Magazine or Annals of Chemistry, Mathematics, Astronomy, Natural History, and General Science. 8°, London.
- The London, Edinburgh, and Dublin Philosophical Magazine and Journal of General Science.
- Phil. Trans.**—Philosophical Transactions of the Royal Society of London. 4°, London.
- Proc. As. Soc. Beng.**—Proceedings of the Asiatic Society of Bengal. 8°, Calcutta.
- Proc. Geol. Soc.**—Proceedings of the Geological Society of London. 8°, London.
- Proc. Inst. Civ. Eng.**—Proceedings of the Institution of Civil Engineers. 8°, London.
- Proc. Liverpool Geol. Soc.**—Proceedings of the Liverpool Geological Society. 8°, Liverpool.
- Proc. Liverpool Lit. Phil. Soc.**—Report of the Proceedings of the Literary and Philosophical Society of Liverpool. 8°, Liverpool.
- Proc. Boston Soc. Nat. Hist.**—Proceedings of the Boston Society of Natural History. 8°, Boston.
- Proc. Roy. Dublin Soc.**—Scientific Proceedings of the Royal Dublin Society. 8°, Dublin.
- Proc. Roy. Geog. Soc.**—Proceedings of the Royal Geographical Society and Monthly Record of Geography. 8°, London.
- Proc. Roy. Irish Acad.**—Proceedings of the Royal Irish Academy. 8°, Dublin.
- Proc. Roy. Soc.**—Proceedings of the Royal Society of London. 8°, London.
- Proc. Zool. Soc.**—Proceedings of the Zoological Society of London. 8°, London.
- Prof. Pap. Ind. Eng.**—Professional Papers on Indian Engineering. 8°, Roorkee.
- Prof. Pap. Thomason Engin. Coll.**—Professional Papers printed at the Civil Engineering College, Roorkee. 8°, Roorkee.

Q

- Quart. Jour. Geol. Soc.**—Quarterly Journal of the Geological Society of London. 8°, London.
- Quart. Jour. Sci.**—Quarterly Journal of Science, Literature, and Arts. 8°, London.

R

- * Rec. Gen. Sci.**—Records of General Science. 8°, London.
- Rec. Geol. Surv. Ind.**—Records of the Geological Survey of India. 8°, Calcutta.
- Rep. Gov. Mus. Mad.**—Reports on the Government Central Museum, Madras, and on the Government Museums at Bellary, Coimbatore, Cuddalore, Mangalore, Ootacamund, Rajahmundry. 8°, Madras.
- Rep. Surveyor General Ind.**—General Report on the operations of the Survey of India Department, administered under the Government of India. Folio, Calcutta.

S

- Scottish Geog. Mag.**—The Scottish Geographical Magazine. 8°, Edinburgh.
- Sel. Pub. Corr. N.-W. P.**—Selections from the Public Correspondence of the Government of the North-Western Provinces. 8°, Allahabad.
- Sel. Pub. Corr. Punjab.**—Selections from the Public Correspondence of the Punjab Government. 8°, Lahore.
- Sel. Rec. Beng. Gov.**—Selections from the Records of the Bengal Government. 8°, Calcutta.
- Sel. Rec. Bo. Gov.**—Selections from the Records of the Bombay Government. 8°, Bombay.
- Sel. Rec. Gov. Ind.**—Selections from the Records of the Government of India. 8°, Calcutta.

- Sel. Rec. Gov. N.-W. P.**—Selections from the Records of the Government of the North-Western Provinces. 8°, Allahabad.
- Sel. Rec. Mad. Gov.**—Selections from the Records of the Madras Government. 8°, Madras.
- Sel. Rec. Punjab Gov.**—Selections from the Records of the Government of the Punjab and its dependencies. 8°, Lahore.
- Sitz. K. Akad. Wien.**—Sitzungsberichte der Mathematisch-naturwissenschaftlichen classe der Kaiserlichen Akademie der Wissenschaften. 8°, Vienna.
- Sitz. K. Baier. Akad. Wiss.**—Sitzungsberichte der Königl. Baierischen Akademie, der Wissenschaften zu München. 8°, Munich.
- ***Sitz. K. Böhm. Gesel. Wiss.**—Sitzungsberichte der Königl. Böhmisches Gesellschaft der Wissenschaften in Prag. 8°, Prague.

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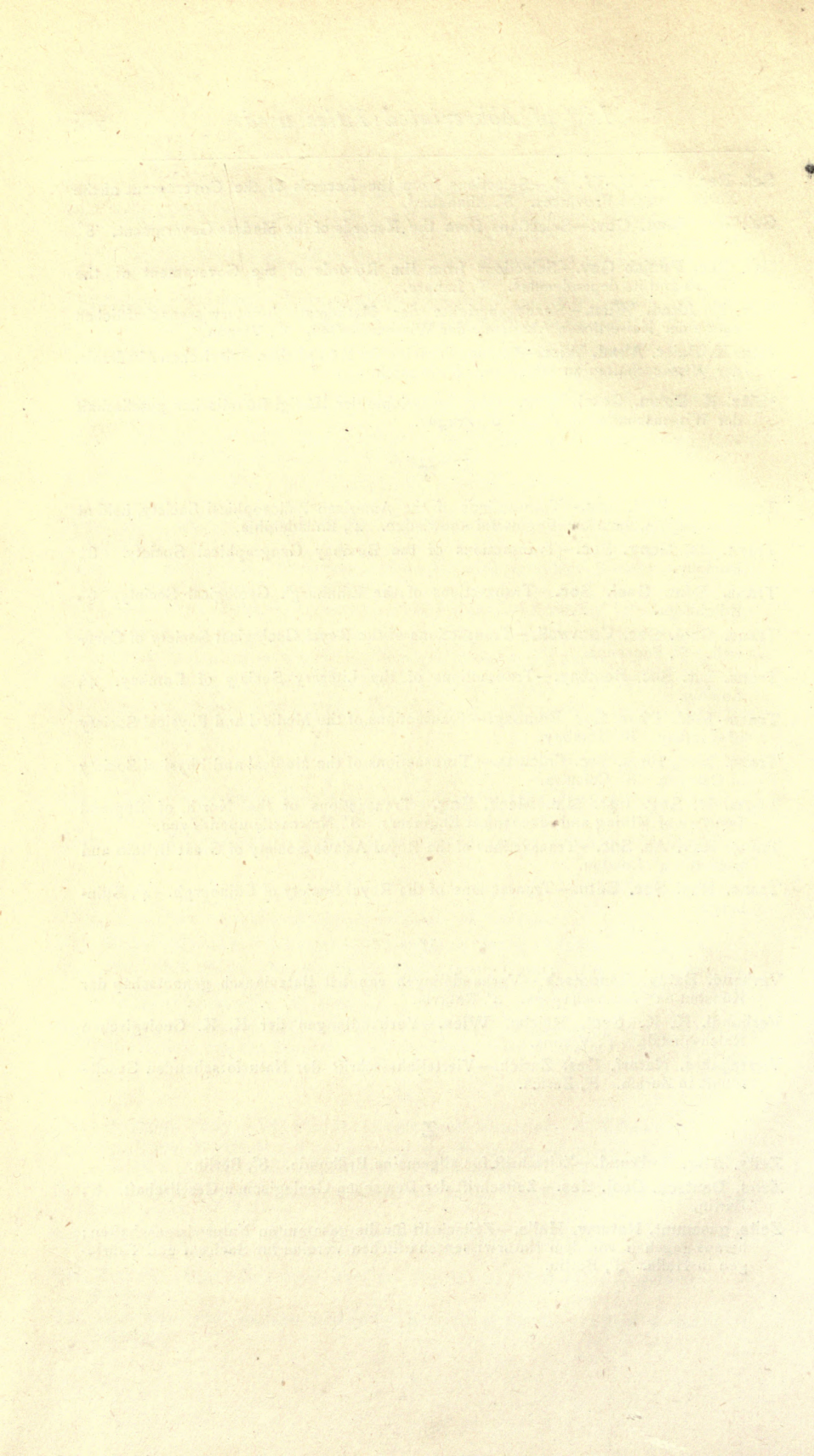
- Trans. Am. Phil. Soc.**—Transactions of the American Philosophical Society, held at Philadelphia, for promoting useful knowledge. 4°, Philadelphia.
- Trans. Bo. Geog. Soc.**—Transactions of the Bombay Geographical Society. 8°, Bombay.
- Trans. Edin. Geol. Soc.**—Transactions of the Edinburgh Geological Society. 8°, Edinburgh.
- Trans. Geol. Soc. Cornwall.**—Transactions of the Royal Geological Society of Cornwall. 8°, Penzance.
- Trans. Lit. Soc. Bombay.**—Transactions of the Literary Society of Bombay. 4°, London.
- Trans. Med. Phys. Soc. Bombay.**—Transactions of the Medical and Physical Society of Bombay. 8°, Bombay.
- Trans. Med. Phys. Soc. Calcutta.**—Transactions of the Medical and Physical Society of Calcutta. 8°, Calcutta.
- Trans. N. Eng. Inst. Min. Mech. Eng.**—Transactions of the North of England Institute of Mining and Mechanical Engineers. 8°, Newcastle-upon-Tyne.
- Trans. Roy. As. Soc.**—Transactions of the Royal Asiatic Society of Great Britain and Ireland. 4°, London.
- Trans. Roy. Soc. Edin.**—Transactions of the Royal Society of Edinburgh. 4°, Edinburgh.

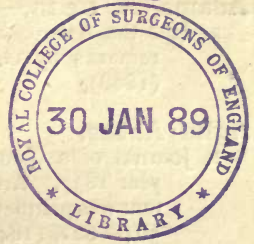
V

- Verhand. Batav. Genootsch.**—Verhandelingen van het Bataviaasch genootschap der Kunsten en Wetenschappen. 4°, Batavia.
- Verhandl. K. K. Geol. Reichs. Wien.**—Verhandlungen der K. K. Geologischen Reichsanstalt. 4°, Vienna.
- Vierteljahrs. Naturf. Ges. Zurich.**—Vierteljahrsschrift der Naturforschenden Gesellschaft in Zurich. 8°, Zurich.

Z

- Zeits. Allg. Erdkund.**—Zeitschrift für allgemeine Erdkunde. 8°, Berlin.
- Zeits. Deutsch. Geol. Ges.**—Zeitschrift der Deutschen Geologischen Gesellschaft. 8°, Berlin.
- Zeits. gesamt. Naturw. Halle.**—Zeitschrift für die gesammten Naturwissenschaften; herausgegeben von dem Naturwissenschaftlichen Vereine für Sachsen und Thüringen in Halle. 8°, Berlin.





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1. An account of a Remarkable Aerolite which fell at the village at Manicgaon, near Eidulabad, in Khandeesh: *Jour. As. Soc. Beng.*, XIII, 880—886, (1844).
2. On Kunker Formations, with specimens: *Jour. As. Soc. Beng.*, XIV, 442—444, (1845).
3. Account of certain Agate Splinters found in the clay stratum bordering the River Narbudda: *Jour. As. Soc. Beng.*, XIV, 756—758, (1845).
4. Remarks upon the occurrence of granite in the bed of the Narbudda: *Jour. As. Soc. Beng.*, XIV, 821-822, (1845).
5. Account of the process employed for obtaining Gold from the Sand of the River Beyass; with a short account of the Gold Mines of Siberia: *Jour. As. Soc. Beng.*, XVI, 266—271, (1847).
6. Extracts from a letter, descriptive of Geological and Mineralogical Observations in the Huzaree district, dated Camp Puhli, in Huzaree, 19th June 1847: *Jour. As. Soc. Beng.*, XVI, 1135—1140, (1847).
7. Inundation of the Indus, taken from the lips of an eye-witness (Ushruff Khan), A.D. 1842: *Jour. As. Soc. Beng.*, XVII, 230—232, (1848).

Adam, J.

1. On the Geology of the banks of the Ganges from Calcutta to Cawnpore: *Geol. Trans.*, 1st series, V, 346—352, (1821).
2. Geological notices and miscellaneous remarks relative to the district between the Jumna and Nerbuddah; with an Appendix containing an account of the rocks found in the Baitool Valley, in Berar, and on the hills of the Gundwana Range; together with remarks made on a march from Hussingabad to Saugar, and from thence to the Ganges: *Mem. Wern. Soc. Edin.*, IV, 24—57, (1822).
3. Account of Barren Island in the Bay of Bengal: *Jour. As. Soc. Beng.*, I, 128—131, (1832).
4. Memoranda on the Geology of Bundelcund and Jubbulpore: *Jour. As. Soc. Beng.*, XI, 392—410, (1842).

Adams, A. Leith.

1. Wanderings of a Naturalist in India, the Western Himalayas, and Cashmere: 8°. Edinburgh, 1867.

Adams, A. Leith,—cont.

2. Has the Asiatic Elephant been found in a fossil state? With additional remarks by G. Busk: *Quart. Jour. Geol. Soc.*, XXIV, 496—499, (1868).

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1. Journal of a Tour through parts of the Punjab and Afghanistan, in the year 1837. Arranged and translated by Major R. Leech, by whom the tour was planned and instructions furnished: *Jour. As. Soc. Beng.*, XII, 564—621, (1843).

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1. On the vegetation of the Jhelum district of the Punjab: *Jour. As. Soc. Beng.*, XXXIII, 290—320. [Contains some geological notes at p. 291.]

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1. Notice in regard to the Saline Lake of Loonar, situated in Berar, East Indies: *Edin. Phil. Jour.*, XI, 308—311, (1824).

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1. On the granitic formation and direction of the Primary Mountain chains of Southern India: *Mad. Jour. Lit. Sci.*, IV, 327—336, (1836).

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1. On the composition of two specimens of Jade (Karakash): *Chem. News*, XLVI, 216, (1882).

Alum.

1. Alum works in Kutch: *Glean. Sci.*, III, 384—385, (1831).

Amato, Père, Gieuseppe d', see D'AMATO.**Andaman Committee.**

1. Report of the Andaman Committee: *Sel. Rec. Gov. Ind.*, XXV, 4—28, (1859).

Anderson, James.

1. Account of the strata at the Diamond mines of Malivully: *Edin. Phil. Jour.*, III, 72—73, (1820).

Anderson, John.

1. A report on the expedition to Western Yunan *vid* Bhamô. 8°. Calcutta, 1871.
2. Mandalay to Momien: A narrative of the two expeditions to Western China, of 1868 and 1875, under Col. Edward B. Sladen and Col. Horace Brown. 8°. London, 1876.

Andresen, T. F.

1. [Copper mines in Alwar]: *Mining Journal*, 1884, p. 1029.

Ansted, D. T.

1. Notice of the Coal of India, being an Analysis of a Report communicated to the Indian Government on this subject: *Brit. Ass. Rep.*, 1846, pt. ii, pp. 63—65.

Antimony.

1. Antimony mines in the Punjab, [Lahoul], reprinted from the *Madras Spectator*, 19th March 1857: *Mad. Jour. Lit. Sci.*, XVII, (new series I), 254—257, (1857).

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1. On the Geology of a part of the Masulipatam District (abridged): *Quart. Jour. Geol. Soc.*, XIX, 32-35, (1863).
1. [On the supposed Kistna coal]: *Jour. Soc. Arts*, XXX, 590, (1882).

Arracan.

1. Appearance of a new Volcanic Island off the coast of Arracan: *Cal. Jour. Nat. Hist.*, IV, 455, (1844). See also CHEDUBA.

Assam.

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Z

1. Zigno, Achille de. *See* DE ZIGNO.

The following is a list of the names of the persons who have been appointed to the various offices of the Government of India, and who have taken the oaths of office and qualification, in accordance with the provisions of the Government of India Act, 1858, and the Government of India Act, 1871.

MEMBERS OF THE LEGISLATIVE COUNCIL

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Storage

