

202

3



INDIAN MINES ACT, 1923

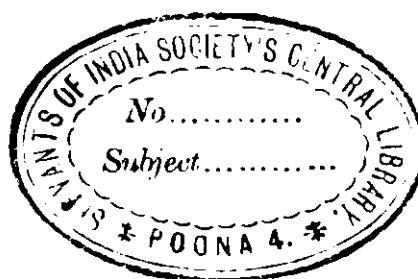
ANNUAL REPORT

OF THE

CHIEF INSPECTOR OF MINES IN INDIA

FOR THE YEAR ENDING

31st DECEMBER 1936



DELHI: MANAGER OF PUBLICATIONS

1937

List of Agents in India from whom Government of India Publications are available.

(a) PROVINCIAL GOVERNMENT BOOK DEPOTS.

MADRAS :—Superintendent, Government Press, Mount Road, Madras

BOMBAY :—Superintendent, Government Printing and Stationery, Queen's Road, Bombay.

SIND :—Manager, Sind Government Book Depot and Record Office, Karachi (Sadar).

UNITED PROVINCES :—Superintendent, Government Press, Allahabad.

PUNJAB :—Superintendent, Government Printing, Punjab, Lahore.

CENTRAL PROVINCES :—Superintendent, Government Printing, Central Provinces, Nagpur.

ASSAM :—Superintendent, Assam Secretariat Press, Shillong.

BIHAR :—Superintendent, Government Printing, P. O. Guizarbagh, Patna.

NORTH-WEST FRONTIER PROVINCE :—Manager, Government Printing and Stationery, Peshawar.

ORISSA :—Press Officer, Secretariat, Cuttack.

(b) PRIVATE BOOK-SELLERS.

Advani Brothers, P. O. Box 100, Cawnpore.

Aero Stores, Karachi.*

Banithiya & Co., Ltd., Station Road, Ajmer.

Bengal Flying Club, Dum Dum Cantt.*

Bhatia Book Depot, Sadar Bazar Ranikhet.

Bhawnani & Sons, New Delhi.

Book Company, Calcutta.

Booklover's Resort, Talkad, Trivandrum, South India.

Burma Book Club, Ltd., Rangoon.

Butterworth & Co. (India), Ltd., Calcutta.

Careers, Mohini Road, Lahore.

Chatterjee & Co., 3, Bacharan Chatterjee Lane, Calcutta.

Chukerverty, Chatterjee & Co., Ltd., 13, College Square, Calcutta.

City Book Club, 98, Phayre Street, Rangoon.

Das Gupta & Co., 54/3, College Street, Calcutta.

Delhi and U. P. Flying Club, Ltd., Delhi.*

English Book Depot, Ferozepore.

English Book Depot, Taj Road, Agra.

English Bookstall, Karachi.

English Book Stores, Abbottabad, N. W. F. P.

Fakir Chand Marwah, Peshawar Cantt.

Fono Book Agency, Simla.

Gautama Brothers & Co., Ltd., Weston Road, Cawnpore.

Higginbothams, Madras.

Hindu Library, 137/F, Balaram De Street, Calcutta.

Hyderabad Book Depot, Chaderghat, Hyderabad (Deccan).

Imperial Book Depot and Press, near Jami Masjid (Machhil-wala), Delhi.

Indian Army Book Depot, Dayalbagh, Agra.

Indian Book Shop, Benares City.

Indian School Supply Depot, Central Avenue, South P. O. Dharmatala, Calcutta.

Insurance Publicity Co., Ltd., Lahore.

International Book Service, Poona 4.

Jacques & Co., Kampfe Road, Nagpur, Messrs. Neston.

Jalsa & Bros., Moti Gate, Delhi and Connaught Place, New Delhi, Messrs. J. M.

Kamals Book Depot, 15, College Square, Calcutta.

Karnataka Publishing House, Bangalore City.

Keats & Co., Karachi.

Roshan Bookstall, Khudhkhazar, Belgaum.

Khyabistan, 17-A, City Road, Allahabad.

Krishnaswamy & Co., Teppakulam P. O., Trichinopoly Fort, Messrs. S.

Lahiri & Co., Calcutta, Messrs. S. K.

Local Govt. Institute, Bombay.

London Book Co. (India), Arbab Road, Peshawar, Murree, Nowshera and Rawalpindi.

London Book House, 17, Rajpur Road, Dera Dun, Messrs. The

Malhotra & Co., Post Box No. 94, Lahore, Messrs. U. P.

Malik & Sons, Sialkot City.

Mathur, B. S., Book Seller, Civil Lines, Jodhpur.

Minerva Book Shop, Anarkali Street, Lahore.

Modern Book Depot, Bazar Road, Sialkot Cantonment and Napier Road, Jilunder Cantonment.

Mohannal Dossabhaji Shah, Rajkot.

Nandkishore & Bros., Chowk, Benares City.

New Book Co., "Kitab Mahal", 192, Hornby Road, Bombay.

Newman & Co., Ltd., Calcutta, Messrs. W.

Oxford Book and Stationery Company, Delhi, Lahore, Simla, Meerut and Calcutta.

Parikh & Co., Beroda, Messrs. B.

Pioneer Book Supply Co., 20, Shib Narayan Das Lane, Calcutta, and 219, Cloth Market, Delhi.

Popular Book Depot, Grant Road, Bombay.

Punjab Religious Book Society, Lahore.

Raghunath Prasad & Sons, Patna City.

Ram Krishna Bros., Opposite Bishrambag, Poona City.

Ram Narain Lal, Katra, Allahabad.

Rama Krishna & Sons, Book-sellers, Anarkali, Lahore.

Ramesh Book Depot & Stationery Mart, Kashmere Gate, Delhi.

Ray & Sons, 43, K. & L. Edwardes Road, Rawalpindi, Murree and Peshawar, Messrs. J.

Roy Chowdhury & Co., 72, Harrison Road, Calcutta, Messrs. N. M.

Saraswati Book Depot, 25, Lady Hardinge Road, New Delhi.

Sarkar & Sons, 15, College Square, Calcutta, Messrs. M. C. Sarkar & Co., Ltd., 6, Hastings Street, Calcutta, Messrs. P. C.

Sharada Mandir Ltd., Nai Sarak, Del'l.

Standard Book Depot, Lahore, Dalhousie and Delhi.

Standard Bookstall, Karachi.

Standard Bookstall, Quetta.

Standard Law Book Society, 69, Harrison Road, Calcutta.

Tara & Sons, Razmak (India), Messrs. B. S.

Taraporevala Sons & Co., Bombay, Messrs. D. B.

Thacker & Co., Ltd., Bombay.

Thacker, Spink & Co., Ltd., Calcutta and Simla.

Tripathi & Co., Book-sellers, Princess Street, Kalbadevi Road, Bombay, Messrs. N. M.

University Book Agency, Kachari Road, Lahore.

Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.

Varadacharya & Co., Malir, Messrs. P.

Venkatasubban, A., Law Book-seller, Vellore.

Wheeler & Co., Allahabad, Calcutta and Bombay, Messrs. A. H.

Young Man & Co., Ajmer & Egerton Road, Delhi.

* Agents for publications on Aviation only.

CONTENTS.

	Page.
Introduction—	
Relates to the administration of the Act	1
Other mining statistical publications	1
Section I.—Persons employed—	
Average figures of labour	1
Increase compared with previous year	1
Distribution in respect of sex	1—2
Provincial distribution of female labour underground	2
Number of persons actually at work and also of persons who should ordinarily have been at work but were absent, on a selected day in February of each year	2—3
Average output of coal per person employed in India	3
Average output of coal per person employed in other countries	4
Supply of labour in Bengal and Bihar and Orissa Coalfields	4
General health of the mining population in the Jharia and Raniganj Mining Settlement	4
Supply of labour in metalliferous mines in Bihar	4
" " " Assam Coalfields	4
" " " the Central Provinces coalfields	4
" " " other provinces	5
Wages paid to Indian miners	5
Statement of daily earnings in December in each important mining field in British India	6
Section II.—Output of minerals—	
Coal output in various provinces	7
" " increase on previous year	7
" " chart of monthly raisings and despatches	7—8
" " in principal coalfields	8
" " chart showing output during 1927-36	8
" despatches and consumption in collieries	8
Trade conditions	9—10
Coal Grading Board and Soft Coke Cess Committee	10
Propaganda with a view to popularising the use of soft coke	10
Chart showing despatches of soft coke from 1926-36	10
Number of mines using electric power	11
Quantity of explosives used	11
Number of coal cutting machines in use	11
" " mechanical ventilators and safety lamps in use	11
Iron ore output, increase in	11
Manganese ore output, increase in	11
Lead-Silver ore output, increase in	12

CONTENTS.

	Page.
Section II.—Output of minerals—<i>contd.</i>	
Gold output	12
Tin and Wolfram output	12
Chromite ore output	12
Copper ore output	13
Zinc ore output	13
Gems output	13
Mica output	13
Rock-salt output	13
Limestone output	14
Stone output	14
Clay output	14
Other minerals output	14
Section III.—Accidents—	
Number of fatal and serious (Non-fatal) accidents and number of persons killed and seriously injured	14
Proportions of accidents to males and females and rates per 1,000 persons employed	15
Classification of causes of fatal accidents	15
Accidents by ignitions of fire-damp and coal-dust	15—16
" falls of roof and sides	16
" in shafts	16
" by suffocation by gases	16
" " explosives	16
" " haulage	16
Classification of accidents due to haulage	16
Accidents by underground machinery	17
" " Sundries underground	17
" " surface machinery	17
" " surface railways and tramways	17
" " electricity	17
" " miscellaneous on surface	17
Non-statistical accidents	17
Death rate per 1,000 persons employed	17
Chart showing death rate during 1923–36	17
Death rate per million tons raised at coal mines	18
Number of deaths at each class of mine	18
Chart showing distribution of causes of persons killed in and about coal mines in the year 1936	18
Chart showing distribution of persons killed in and about coal mines during the period 1927–1936	18
Detailed reports of certain accidents—	
Ignitions of inflammable gas or coal dust—	
At the Adjai Collieries Limited's Adjai Second coal mine	19—22
At the Bengal Coal Co., Limited's Poidih colliery	22—30
Falls of roof—	
At the Burra Dhemo Coal Company Limited's Burra Dhemo coal mine	30

CONTENTS.

Section III.—Accidents—<i>contd.</i>	
Detailed reports of certain accidents— <i>contd.</i>	
Suffocation by gases—	
At the Burrakur Coal Company Limited's Loyabad coal mine	30—35
Haulage—	
At the Bhulanbarree Coal Company Limited's Bhulanbarree coal mine	36—37
Non-statistical—	
At the Niluripathra Coal Company Limited's Niluripathra coal mine	37—38
At the North Burrakur Coal Company Limited's Lodna Colliery	38
Section IV.—Prosecutions and amendments to the Act, etc.—	
Prosecutions instituted by the Mines Department	39—41
" " " mine officials	41—43
Amendments to the Act, etc.—	
Amendments to the Indian Mines Act, Coal and Metalliferous Mines Regulations, the Rules and Bye-laws	43—44
Section V.—General Remarks—	
Registration of work persons	44—45
Emergency safety regulations	45
Health and Sanitation—	
Number of meetings	45
Birth and death rates	45
Epidemic diseases	45—46
Maternity and child welfare	46
Anti-leprosy work	46
Meetings of the Jharia Mines Board of Health	46—47
Inspections made by Medical Officers as <i>ex-officio</i> Inspector of Mines	47
Rainfall Statistics—	
Coalfields of Jharia, Raniganj and Giridih	48—49
Board of Examiners—	
Number of meetings	49
Appointment of examiners to conduct examinations	49
Managers' examinations	49
Surveyors' "	49
Sirdars' "	49—50
Suspension of Sirdars' Certificates	50
Mining Education—	
Number of students at the Indian School of Mines and the results of the examinations	50
Benares Hindu University—	
Number of candidates and results of the examinations	50
Courses of evening instructions in Bihar Raniganj and the Central Provinces	51
Mining and Geological Institute of India—	
Membership, meetings and excursions	51
Government prize and other medals	51
The Geological, Mining and Metallurgical Society of India	51—52
The National Association of Colliery Managers, Indian Branch	52

CONTENTS.

	Page.
Section V.—General Remarks—<i>contd.</i>	
Mining and Geological Institute of India— <i>contd.</i>	
The Indian Mine Managers Association	52
The Railways and Collieries Advisory Board	53
Labour Association	53
The Tata's Collieries Labour Association	53
The Indian Miners Association	53
Coal Mining Committee	54
Visitors to the coalfields	55
Official duties—	
Personnel	56
Number of mines inspected	57
Orders issued and exemptions and permissions granted	57
Dangerous occurrences	58
Cases under the Land Acquisition (Mines) Act, 1885	58
APPENDICES—	
Appendix I.—Statistics of mines and minerals—	
Table No. 1. Number of workers and output of minerals	60—103
" " 1-A. Total mining population in British India on a day in a selected week in February 1937	104—105
" " 2. Average hours worked per week in each important mining field	106—107
" " 3. Analysis of figures relating to coal and coke	108—109
" " 4. Number of mines opened, closed and inspected	110—122
" " 5. Fluctuation in the output of principal minerals	123
" " 6. Death rate during 1927-1936	123
" " 7. Aggregate horse power and purpose for use of electric motors installed in coal mines	124
" " 8. Number of mines where electric power is used and aggregate horse power of electric motors installed	124
" " 9. Number and type of coal-cutting machines at work in coal mines	125
" " 10. Number of mechanical ventilators in use in coal mines	125
" " 11. Number of safety lamps in use in coal mines	126
" " 12. Statement of explosives used in mines	126
Appendix II.—Accidents in mines—	
Table No. 1. List of fatal accidents with causes and remarks	128—185
" " 2. Statement of fatal and serious accidents	186—195
" " 3. Statement of fatal accidents in mines classified according to cause of accident	196
Appendix III.—Prosecutions—	
Statement of prosecutions under the Indian Mines Act	197—202
Appendix IV.—Miscellaneous—	
Statement No. 1. List of Inspection Circles	203
" " 2. List of certificate holders	203—206
" " 3 List of permitted explosives	207
" Nos. 4 to 26	208—272