

Contents.

1.	Annual Report of the Chief Inspector of Mines in India, 1934.	pp. 1- 93. or
2.	" 1935.	pp. 94-201.
3.	" 1936.	pp. 202-346.
4.	" 1937.	pp. 345-455.
5.	" 1938.	pp. 456-567.
6.	" 1939.	pp. 568-684.
7.	" " 1940.	pp. 685-749.
		-COO-----



1

**INDIAN MINES ACT, 1923**

**ANNUAL REPORT**

**OF THE**

**CHIEF INSPECTOR OF MINES IN INDIA**

**FOR THE YEAR ENDING**

**31st DECEMBER 1934**

■ ■ ■

**DELHI: MANAGER OF PUBLICATIONS  
1935**

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

## ENGLAND.

**THE HIGH COMMISSIONER FOR INDIA, INDIA HOUSE, ALDWYCH, LONDON, W. C. 2.**

## PALESTINE.

Shtromsky, Jerusalem.

## INDIA.

### (a) PROVINCIAL GOVERNMENT BOOK DEPOTS.

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

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

**SIND** :—Library attached to the Office of the Commissioner in Sind, Karachi.

**UNITED PROVINCES OF AGRA AND OUDH** :—Superintendent of Government Press, United Provinces of Agra and Oudh, Allahabad.

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

**BURMA** :—Superintendent, Government Printing, Burma, Rangoon.

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

**ASSAM** :—Superintendent, Assam Secretariat Press, Shillong.

**BINAR AND ORISSA** :—Superintendent, Government Printing, Bihar and Orissa, P. O. Gaimarthagh, Patna.

**KORDIL-KASHMIR FRONTIER PROVINCE** :—Manager, Government Printing and Stationery, Peshawar.

### (b) PRIVATE BOOKSELLERS.

Aero Stores, Karachi City.\*

Albert Library, Dacca.

Banerjee & Bros., Karachi, Meers. G.

Bantheria & Co., Ltd., Kuchuri Road, Ajmer.

Bengal Flying Club, Dum Dum Canton.\*

Bhavnani & Sons, New Delhi.

Book Company, Calcutta.

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

Burma Book Club, Ltd., Rangoon.

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

Calcutta Book Agency, 16-i, Shama Charan Dey Street, Calcutta.

Chatterjee & Co., 2, Bacharam Chatterjee Lane, Calcutta.

Chokerverry, Chatterjee & Co., Ltd., 18, College Square, Calcutta.

City Book Co., Madras.

City Book House, Meitos Road, Cawnpore.

Commercial Book Co., Lahore.

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

Deenan Bookstall, Poona 4.

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

English Book Depot, Ferozepore.

English Book Depot, Taj Road, Agra, and Sudder Bazar, Jhansi.

English Book Depot, Bank Road, Ambala Cantonment and Kasauli\*\*.

English Bookstall, Karachi.

Fakir Chand Marwah, Peshawar Cantonment.

Fono Book Agency, Simla.

Gaya Prasad & Sons, Agra.

Graetha Mandir, Cuttack.

Higginbothams, Madras.

Hindi Library, 137/F., Baharam De Street, Calcutta.

Hyderabad Book Depot, Chaderghat, Hyderabad (Deccan).

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

Indian Army Book Depot, Dayalbagh, Agra.

Indian Army Book Depot, Jullundur City and Daryaganj, Delhi.

Indian Book Shop, Benares City.

Indian School Supply Depot, 209, Bow Bazar St., Calcutta.

Insurance Publishing Co., Ltd., Lahore.

International Book Service, Poona 4.

Jain & Bros., Mori Gate, Delhi, Meers. J. M.

James Murray & Co., 12, Govt. Place, Calcutta (for Meteorological publications only).

Kali Charan & Co., Municipal Market, Calcutta.

Kamal Book Depot, 16, College Square, Calcutta.

Kamal Book Stores, Bankipore, Patna.

Karnataka Publishing House, Bangalore City.

Kens & Co., Karachi.

Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort, Meers. S.

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

Law Printing House, 11, Mount Road, Madras.

Law Publishing Co., Mylapore, Madras.

Lawrence and Mayo, Ltd., Bombay (for Meteorological publications only).

Local Govt. Institute, Bombay.

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

London Book Depot, B. L. Bazar, Bareilly, U. P.

Malhotra & Co., Quetta, Meers. U. P.

Mohamed Domalhai Shah, Rajkot.

Newsthairs & Bros., Chowk, Benares City.

Nathus & Co., Publishers, George Town, Madras, Meers. G. A.

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

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

North India Christian Tract and Book Society, 18, Clive Road, Allahabad.

Oriental Book Supplying Agency, 18, Shakrawar, Poona City.

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

Parikh & Co., Baroda, Meers. B.

Pioneer Book Supply Co., 20, Shab Narayan Das Lane, Calcutta and 212, Cloth Market, Delhi.

Popular Book Depot, Grant Road, Bombay.

Punjab Religious Book Society, Lahore.

Punjabi Sanskrit Book Depot, Haldimitha Street, Lahore.

Raghunath Prasad & Sons, Patna City.

Ram Krishna Bros., Opposite Bishrambag, Poona City.

East Karmal Lal, Katra, Allahabad.

Rama Krishna & Sons, Booksellers, Anarkali, Lahore.

Karmal Book Depot, Stationery Mart, Kashmiri Gate, Delhi.

Ray & Sons, 42, K. & L. Edwards Road, Rawalpindi, Murree and Peshawar, Meers. J.

Ray Chowdhury & Co., 64-6, Abatosh Mukherjee Road, Calcutta.

Rockhouse & Sons, Madras.

Roy Chowdhury & Co., 11, College Square, Calcutta, Meers. N. M.

Samson Williams & Co., 127-B, The Mall, Cawnpore.

Sarker & Sons, 18, College Square, Calcutta, Meers. M. C.

Sarker & Co., Ltd., 18, Shama Charan Dey Street, and

82, Hastings Street, Calcutta, Meers. P. C.

Scientific Publishing Co., 9, Talhati Lane, Calcutta.

Sheshachalam & Co., Maaulipatam, Meers. M.

Shivji & Co., P. O. Chaitlaganj, Cuttack.

Shri Shankar Karnatak Pustaka Bhandaara, Malamuddi, Dharwar.

S. P. Bookstall, 21, Budhwar, Poona.

Standard Book Depot, Lahore, Dailoote and Delhi.

Standard Bookstall, Karachi.

Standard Bookstall, Quetta.

Standard Law Book Society, 5, Hastings Street, Calcutta.

Standard Literature Company, Ltd., Calcutta.

Students' Popular Depot, Kachari Road, Lahore.

Burat and District Trading Society, Burat.

Taraporewala Sons & Co., Bombay, Meers. D. B.

Thacker & Co., Ltd., Bombay.

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

Tripathi & Co., Booksellers, Princess Street, Kalbadevi Road, Bombay, Meers. M. M.

Union Stores, Indore City.

University Book Agency, Kachari Road, Lahore.

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

Varadacharya & Co., Madras, Meers. P.

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

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

\* Agents for publications on Aviation only.

## CONTENTS.

	Page.
<b>Introduction—</b>	
Relates to the administration of the Act . . . . .	1
Other mining statistical publications . . . . .	1
<b>Section I.—Persons employed—</b>	
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
" " " " " other countries . . . . .	3
Supply of labour in Bengal and Bihar and Orissa coalfields . . . . .	3-4
" " " metalliferous mines in Bihar and Orissa . . . . .	4
" " " Assam Coalfields . . . . .	4
" " " other provinces . . . . .	5
Wages paid to Indian miners . . . . .	5-6
Recommendations of Royal Commission on labour . . . . .	6
Statement of daily earnings in December in each important mining field in British India . . . . .	7
Effect of gradual withdrawal of women from underground workings of mines . . . . .	8
Welfare work at metalliferous mines . . . . .	8-9
<b>Section II.—Output of minerals—</b>	
Coal output in various provinces . . . . .	9
" increase on previous year . . . . .	9
" chart of monthly raisings and despatches . . . . .	9-10
" in principal coalfields . . . . .	10
" chart showing output during 1925-34 . . . . .	10
" despatches and consumption in collieries . . . . .	11
Trade conditions . . . . .	11
Coal Grading Board and Soft Coke Cess Committee . . . . .	11-12
Chart showing despatches of soft coke from 1924 to 1934 . . . . .	12
Number of mines using electric power . . . . .	12
Quantity of explosives used . . . . .	13
Number of coal cutting machines in use . . . . .	13
" of mechanical ventilators and safety lamps in use . . . . .	13
Iron Ore output, increase in . . . . .	13
Manganese Ore output, increase in . . . . .	13
Lead Silver Ore output, decrease in . . . . .	14
Gold output . . . . .	14
Tin and Wolfram Ore output . . . . .	14
Chromite Ore output . . . . .	14
Copper Ore output . . . . .	15
Zinc Ore output . . . . .	15

## CONTENTS.

	Page.
<b>Section II.—Output of minerals—contd.</b>	
Gems output . . . . .	15
Mica output, increase in . . . . .	15
Rock Salt output . . . . .	15
Limestone output . . . . .	16
Stone output . . . . .	16
Clay output . . . . .	16
Other minerals output . . . . .	16
<b>Section III.—Accidents—</b>	
Number of fatal and serious (Non-fatal) accidents and number of persons killed and seriously injured . . . . .	16
Proportions of accidents to males and females and rates per 1,000 persons employed . . . . .	17
Classification of causes of fatal accidents . . . . .	17
Accidents by ignitions of fire-damp . . . . .	17
"    " falls of roof and sides . . . . .	17
"    " in shafts . . . . .	18
"    " by explosives . . . . .	18
"    " haulage . . . . .	18—19
"    " underground machinery . . . . .	19
"    " sundries underground . . . . .	19
"    " surface machinery . . . . .	19
"    " boilers and pipes bursting . . . . .	19
"    " surface railways and tramways . . . . .	19
"    " electricity . . . . .	19
"    " miscellaneous on surface . . . . .	19
"    " Non-statistical . . . . .	19
Death rate per thousand persons employed . . . . .	20
Chart showing death rate during 1925-34 . . . . .	20
Death rate per million tons raised at coal mines . . . . .	20
Number of deaths at each class of mine . . . . .	20
Chart showing distribution of causes of persons killed in and about coal mines during the year 1934 . . . . .	21
<b>Detailed reports of certain accidents—</b>	
<b>Falls of roof—</b>	
At the Poriapur Collieries Ld.'s Poriapur coal mine . . . . .	21—23
"    " Katras Jharriah Coal Co., Ld.'s Seebpur coal mine . . . . .	23—24
<b>In shafts (overwinding)—</b>	
At the Seebpore Coal Co., Ld.'s Pretoria coal mine . . . . .	24—25
<b>By explosives—</b>	
At Mebara F. F. Chrestien & Co., Ld.'s Gamaria mica mine . . . . .	25—26
"    " the Indian Copper Corporation, Ld.'s Dhabani copper mine . . . . .	26
"    " West Jamuria Coal Co., Ld.'s West Jamuris coal mine . . . . .	27
<b>Haulage—</b>	
At the Amalgamated Coal Fields Ld.'s Jatachappé coal mine . . . . .	27
<b>Surface machinery—</b>	
At the Indian Copper Corporation, Ld.'s Mossaboni copper mine . . . . .	27—28

## CONTENTS.

iii

	Page.
<b>Section III.—Accidents—contd.</b>	
On surface railways and tramways—	
At the Equitable Coal Co., Ltd.'s Jamuria coal mine . . . . .	28
Non-Statistical—	
At the Marine Coal Co., Ltd's Kirkend coal mine . . . . .	28
" " New Beerbhum Coal Co., Ltd.'s Chinchuria coal mine . . . . .	28
<b>Section IV.—Prosecutions and amendments to the Act, etc.—</b>	
Prosecutions instituted by the Mines Department . . . . .	29—31
" " mine officials . . . . .	32
Amendments to the Act, etc.—	
Amendments to the Indian Coal and Metalliferous Mines Regulations . . . . .	31—32
<b>Section V.—General Remarks—</b>	
Lighting in the underground parts of mines . . . . .	32
Examination of the gauges of flame safety lamps . . . . .	32—33
Effect of the earthquake of January 1934 on mines . . . . .	33—34
Stemming material for use in shot firing . . . . .	35—36
Use of conveyors for transporting and loading . . . . .	36
Health and Sanitation—	
Asansol Mines Board of Health—	
Number of meetings . . . . .	36
Birth and death rates . . . . .	36
Epidemic diseases . . . . .	36
Infant Welfare Centres and Baby Shows . . . . .	36—37
Leprosy Clinics and Relief Association . . . . .	37
Jharia Mines Board of Health—	
Number of meetings . . . . .	37
Death rate . . . . .	37
Epidemic diseases . . . . .	37
Analysis of foodstuffs . . . . .	37
Maternity and Child Welfare Scheme . . . . .	37
Anti-leprosy work . . . . .	37
Jharia Water Board—	
Supply of filtered water . . . . .	37
Rainfall statistics—	
Coalfields of Jharia, Raniganj and Giridih . . . . .	38
Ambulance work in the coalfields—	
Classes in First-aid . . . . .	38
Number of First-aid Certificates awarded . . . . .	38
Mining Boards in Bengal, Bihar and Orissa and the Central Provinces—	
Membership, meetings and business transacted . . . . .	38—39
Board of Examiners—	
Number of meetings . . . . .	39
Appointment of examiners to conduct examinations . . . . .	39
Manager's examinations . . . . .	39
Surveyors' " . . . . .	39
Sirdars' " . . . . .	39

	Page.
<b>Section V.—General Remarks—contd.</b>	
<b>Board of Examiners—contd.</b>	
Suspension of sirdars' certificates . . . . .	39
Recognition of the Orissa School of Engineering. . . . .	39
<b>Mining Education—</b>	
Number of students at the Indian School of Mines and the results of the examinations . . . . .	39—40
Mine surveying camp . . . . .	40
Number of students at the Benares Hindu University. . . . .	40
Courses of evening instructions in Bihar and Orissa and in the Central Provinces . . . . .	40—41
<b>Mining and Geological Institute of India—</b>	
Membership, meetings and excursions . . . . .	41
Government prize and other medals . . . . .	41
<b>National Association of Colliery Managers, Indian Branch, Indian Mine Managers' Association, Railways and Collieries Advisory Board, Indian Colliery Labour Union, Tata Collieries' Labour Association, Jamadoba, and the Indian Miners' Association—</b>	
Membership and business transacted. . . . .	41—43
Visitors to the coalfields . . . . .	43
<b>Official Duties—</b>	
Personnel . . . . .	43—44
Number of mines inspected . . . . .	44
Orders issued and exemptions and permissions granted . . . . .	44
Dangerous occurrences . . . . .	45
Cases under the Land Acquisition (Mines) Act, 1885 . . . . .	45
<b>APPENDICES—</b>	
<b>Appendix L—Statistics of Mines and Minerals—</b>	
Table No. 1. Number of workers and output of minerals . . . . .	46—91
" " 1-A. Total mining population in coal mines in British India on a day in a selected week in February 1935 . . . . .	92—93
" " 2. Average hours worked per week in each important mining field . . . . .	94—95
" " 3. Analysis of figures relating to the output of coal and coke . . . . .	96—97
" " 4. Number of mines opened, closed and inspected . . . . .	98—110
" " 5. Fluctuations in the output of principal minerals . . . . .	111
" " 6. Death rates during 1925-1934 . . . . .	111
" " 7. Aggregate horse power and purpose for use of electric motors installed at coal mines . . . . .	112
" " 8. Number of mines where electric power is used and aggregate horse power of electric motors installed . . . . .	112
" " 9. Number and type of coal cutting machines at work in coal mines . . . . .	113
" " 10. Number of mechanical ventilators in use at coal mines . . . . .	113
" " 11. Number of safety lamps in use at coal mines. . . . .	113
" " 12. Statement of explosives used in mines . . . . .	114
<b>Appendix LI.—Accidents in mines—</b>	
Table No. 1. List of fatal accidents with causes and remarks . . . . .	115—145
" " 2. Statement of fatal and serious accidents . . . . .	146—155
" " 3. Statement of fatal accidents in mines classified according to cause of accident . . . . .	156

**CONTENTS.**

	Page.
<b>APPENDICES—<i>contd.</i></b>	
<b>Appendix III.—Prosecutions—</b>	
Statement of prosecutions under the Indian Mines Act and the Indian Penal Code . . . . .	157—160
<b>Appendix IV.—Miscellaneous—</b>	
Statement No. 1. List of Inspection Circle . . . . .	161
" " 2. List of certificate holders . . . . .	161—164
" " 3 to 5. Notifications . . . . .	165—167