



INDIAN MINES ACT, 1923

ANNUAL REPORT

OF THE

CHIEF INSPECTOR OF MINES IN INDIA

FOR THE YEAR ENDING

31st DECEMBER 1939



PRINTED BY MANAGER, GOVERNMENT OF INDIA PRESS, CALCUTTA

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI

1940

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

ABBOTTABAD—English Book Store.

AGRA—

English Book Depot, Taj Road.
Indian Army Book Depot, Dayalbagh.
National Book House, Jeonamandi.

AHMEDABAD—

Chandrakant Chimanlal Vora.
H. L. College of Commerce Co-operative Stores Ltd.

AJMER—Banthiya & Co., Ltd., Station Road.

ALIGARH—Rama Book Depot, Sarai Humain.

ALLAHABAD—

Kitabistan 17-A, City Road.
Ram Narain Lal, 1, Bank Road.
Superintendent, Printing and Stationery, U. P.
Wheeler & Co., Messrs. A. H.

BARODA—Farikh & Co., Messrs. B.

BILASPUR—Subhan, Mr. M. A., Bookseller & Publisher.

BOMBAY—

Bombay Book Depot, Charol Road, Girgaon.
Joshi, Mr. V. G., News Agent, Devgad Baris, 66
Piplod.
New Book Co., Kitab Mahal, 188-90, Hornby Road.
Popular Book Depot, Grant Road.
Shri Samarth Book Depot, Ramchandra Buildings,
Near Portuguese Church, Girgaon.
Superintendent, Govt. Printing & Stationery, Queen's
Road.
Taraporevals Sons & Co., Messrs. D. B.
Thacker & Co., Ltd.
Tripathi & Co., Messrs. N. M., Princes Street, Kalba-
devi Road.
Wheeler & Co., Messrs. A. H.

CALCUTTA—

Book Company.
Chatterjee & Co., 3, Bacharam Chatterjee Lane.
Chukerverty, Chatterjee & Co., Ltd., 13, College
Square.
Das Gupta & Co., 54/3, College Street.
Hindu Library, 137-F, Balaram De Street.
Lahiri & Co., Ltd., Messrs. S. K.
Macmillan & Co., Ltd., 294, Bow Bazar Street.
Newman & Co., Ltd., Messrs. W.
Roy Chowdhury & Co., Messrs. N. M., 72, Harrison
Road.
Sarkar & Sons, Messrs. M. C., 15 College Square.
Sarkar & Sons, Ltd., Messrs. S. C. 1-1-10, College
Square.
Standard Law Book Society, 79/1, Harrison Road.
Thacker, Spink & Co. (1933), Ltd.
Wheeler & Co., Messrs. A. H.

CAWNPORE—

Advani & Co., P. O. Box No. 100.
Standard Book Depot, The Mall.

CUTTACK—Press Officer, Orissa Secretariat.

DEHRA DUN—Ideal Book Depot, Rajpur Road.

DELHI—

Imperial Book Depot and Press, Near Jama Masjid
(Machhiwalan).
Indian Army Book Depot, Daryaganj.
Jaina & Bros., Messrs. J. M., Morigata.
Oxford Book and Stationery Co.
Pioneer Book Supply Co., 219, Cloth Market.
Sharda Mandir, Ltd., Nai Sarak.
Young Man & Co. (Regd.), Egerton Road.

DEBARKOTTAH—Rajaji Press Ltd.

DEBARWAR—Karnataka Sahitya Mandir, Publishers
and Direct Importers.

DUM DUM CANTT.—Benzal Flying Club.†

FEROZPUR—English Book Depot.

GWALIOR—Jain & Bros., Messrs. M. B., Sarafa Road.

HYDERABAD (DECCAN)—Hyderabad Book Depot,
Chaderghat.

JAIPUR CITY—Goyal & Goyal, Publishers & Book-
sellers.

JODHPUR—Mathur & Co., Messrs. B. S., Chatter Vilas,
Paota, Civil Lines.

JUBBULPORE—C. P. Circulating Library and Book
Depot, Civil East Street, Cantonment.

KARACHI—

Acro Stores.
English Bookstall.
Standard Bookstall.

KARACHI (SADAR)—Manager, Sind Government

Book Depot and Record Office.

KARAIKUNDI—Rajaji Press Ltd.

KASHMIR—Kainas News Agency, The Bund, Sri-
nagar.

KOLHAPUR—International Bookstall, Market.

LAHORE—

Eastern Publishing and Stationery, Ltd., 10, Chamber-
lain Road.

Imperial Publishing Coy.

Kansli & Co., Messrs. K. C. S. Commercial Building,
The Mall.

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

Minerva Book Shop, Amarkant Street.

Modern Times, Mount Road.

Punjab Religious Book Society.

Punjab Sanskrit Book Depot.

Rama Krishna & Sons, Anarkali.

Standard Book Depot.

Superintendent Govt. Printing, Punjab.

Times Book Depot, Mohan Lal Road.

University Book Agency, Kachori Road.

LUCKNOW—

Lucknow Publishing House.

Upper India Publishing House, Ltd., Literature Palace,
Aminudaula Park.

LYALLPORE—Lyall Book Depot.

MADRAS—

Company Law Institute, Thyagarayanagar.*

Higginbotham.

Little Flower & Co., 44, Lingha Chetty Street, G. T.

Superintendent, Govt. Press, Mount Road.

Varadachary & Co., Messrs. P.

MEERUT—

Ideal Book Depot, Big Bazar.

Parakash Educational Stores Near Tehsil.

MOGA—Army Musketry Stores.

NAGAPATAM—Venkataraman, Mr. B.

NAGPUR—

Chinoy & Sons, Booksellers etc., Dhantoli.

Superintendent, Govt. Printing Central Provinces.

NEW DELHI—

Bhawnani & Sons.

Delhi and U. P. Flying Club Ltd.†

Idandaa Book Co., Connaught Circus (opposite Scindia
House).

Jaina & Bros., Messrs. J. M., Connaught Place.

Ramesh Book Depot & Stationery Mart, Connaught
Place.

Saraswati Book Depot, 18, Lady Hardinge Road.

PATNA—

Superintendent, Government Printing, Bihar, P. O.
Gulzarbagh.

Verma's Cambridge Book Depot.

PATNA CITY—

Agarwal & Co., Messrs. J. N. P., Padri-ki-Haveli.

Raghunath Prasad & Sons.

PESHAWAR—

British Stationery Mart.

London Book Co. (India), Arbab Road.

Manager, Govt. Printing & Stationery, N.-W. F. P.

PESHAWAR CANTT.—Faqir Chand Marwah.

POONA—

Dastane Bros., Home Service, 656, Rawiwar Peth.

International Book Service.

Ram Krishna Bros., Opposite Bishram Bagh.

QUETTA—Standard Bookstall.

QUILON—Associated News Agency, Big Bazar.

RAJKOT—Mohani Lal Domsabhai Shah.

RANGOON—Burma Book Club Ltd.

RAWALPINDI—Ray & Sons, Messrs. J., 43, K. & L.

Edwardes Road.

RAZMAK—Tara & Sons, Messrs. B. S.

SHILLONG—Superintendent, Assam Secretariat Press.

SIALKOT CANTT.—Modern Book Depot, Bazar Road.

SIALKOT CITY—Buckingham & Co., Booksellers &

Stationers, Greenwood Street.

TRICHINGPOLY FORT—Krishnaswami & Co., Messrs.

R. Teppakulam.

TRIVANDRUM—Booklovers' Resort, Talkad.

VELLORE—Venkatasubban, Mr. A., Law Bookseller.

* Agents for Income-tax, Law and allied Publications only.

† 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
Decrease as compared with previous year	1—2
Distribution in respect of sex	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, Bihar & Orissa Coalfields	3
General health of the mining population in the Jharis and Raniganj Mining Settlement	3
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
“ “ decrease on previous year	7
“ “ chart of monthly raisings and despatches	7
“ “ in principal coalfields	8
“ “ chart shewing output during 1930-39	8
“ despatches and consumption in collieries	9
Trade conditions	9
Coal Grading Board and Soft-Coke Cess Committee	9
Propaganda with a view to popularising the use of soft coke	10
Chart showing despatches of soft coke from 1929-39	10
Number of mines using electric power	10
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, decrease in	11
Chromite ore output, decrease in	12
Copper ore output, increase in	12
Mica output, increase in	12

	Page
Section II.—Output of minerals—contd.	
Rock-salt output, increase in	12
Limestone „ decrease in	13
Stone „ increase in	13
Clay „	13
Other minerals output	13
Section III.—Accidents—	
Number of fatal and serious (non-fatal) accidents and number of persons killed and seriously injured	13
Proportions of accidents to males and females and rates per thousand persons employed	14
Classification of causes of fatal accidents	14
Number of persons killed during 1939	14
Analysis of serious accidents	14
Accidents by explosions and ignition of fire-damp and coal-dust	14
„ „ falls of roofs and sides	14—15
„ in shafts	15
„ by suffocation by gases	15
„ „ explosives	15
„ „ haulage	15
Classification of accidents due to haulage	15
Comparative statement of fatal and serious accidents on haulage roads during 1935-39	15
Accidents by underground machinery	17
„ „ sundries underground	17
„ „ surface machinery	17
„ „ 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 1923-39	17
Death rate per million tons raised	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 1939	18
Detailed reports of certain accidents—	
Falls of roofs—	
At the Equitable Coal Company, Limited's Bejdih coal mine	19
„ „ Eastern Coal Company, Limited's Amlabad „ „	19
Falls of sides—	
At the Hazaribagh Mica Mining Company, Limited's Sarlैया (prospecting pit) mica mine	20
„ the Dhero Main Collieries, Limited's Dhero Main coal mine	20—21
Explosives—	
At the Bone Valley Portland Cement Companies, Limited's Bhangia Gureote limestone mine	21—22
Haulage—	
At Kumar Sarat Kumar Roy's Isabella coal mine	22
„ the Jinagora (East Bararee) Colliery Company, Limited's Jinagora (B. Section) coal mine	22

CONTENTS.

iii

	Page.
Section III.—Accidents—<i>contd.</i>	
Detailed reports of certain accidents— <i>contd.</i>	
Sundries underground—	
At the Aldih Coal Company, Limited's Methani coal mine	23—24
„ Messrs. The Lodna Colliery Company (1920) Limited's Lodna (Nos. 4 & 5 Pits) coal mine	24
Section IV.—Prosecutions and Amendment to the Act, etc.—	
Prosecutions instituted by the Mines Department	24—30
„ „ „ mine officials	30—31
Amendments to the Act, etc.—	
Amendments to the Indian Mines Act, Coal and Metalliferous Mines Regulations, the Rules and Bye-laws	31—33
Section V.—General Remarks—	
Protective equipment	33—34
Air-blasts in underground workings	34—36
Precautions taken to prevent the spread of underground fire	36—37
Health and sanitation—	
Number of meetings	37
Epidemic diseases	37
Maternity and child welfare	37
Anti-leprosy work	38
„ -malaria operations	38
Meetings of the Jharis Mines Board of Health	38—39
Inspections made by Medical Officers as <i>ex-officio</i> Inspector of Mines	39
Rainfall Statistics—	
Coalfields of Jharis, Raniganj and Giridih	39—40
Ambulance work	40—41
Lang-Cunningham Memorial Shield	41
Mining Boards in Bengal, Bihar and the Central Provinces—	
Number of meetings, subjects discussed, etc.	41
Boards of Examiners—	
Number of meetings	42
Appointment to examiners to conduct examinations	42
Managers' examinations	42
Surveyors' „	42
Sirdars' „	42
Suspension of Sirdars' certificates	42
Mining Education—	
Number of students at the Indian School of Mines and the results of the examinations	43
Scientific and Technical Associations—	
Mining, Geological and Metallurgical Institute of India	44—45
Geological, Mining and Metallurgical Society of India	45
National Association of Colliery Managers (Indian Branch)	45—46
The Indian Mine Managers' Association	46
The Railways and Collieries Advisory Board	46
The Coal Mines Stowing Board	46—48

	Page.
Section V.—General Remarks— <i>contd.</i>	
Scientific and Technical Associations— <i>contd.</i>	
The Rescue Stations Committee	48—49
Labour Inquiry Committee	49
Labour Associations—	
The Indian Colliery Labour Union	49
" " Miners' Association	49
Official duties—	
Personnel	50—51
Number of mines inspected	51
Orders issued and exemptions and permissions granted	51
Dangerous occurrences	51
Cases under the Land Acquisition (Mines) Act, 1885	52
APPENDICES—	
Appendix I.—Statistics of mines and minerals—	
Table No. 1. Number of workers and output of minerals	54—53
" " 1-A. Total mining population in British India on a day in a selected week in February 1939	94—95
" " 2. Average hours worked per week in each important mining field	96—97
" " 3. Analysis of figures relating to coal and coke	98—99
" " 4. Number of mines opened, closed and inspected	100—110
" " 5. Fluctuation in the output of principal minerals	111
" " 6. Death rate during 1930-39	111
" " 7. Aggregate horse power and purpose for use of electric motors installed in 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 in coal mines	113
" " 11. Number of safety lamps in use in coal mines	114
" " 12. Statement of explosives used in mines	114
Appendix II.—Accidents in mines—	
Table No. 1. List of fatal accidents with causes and remarks	116—161
" " 2. Statement of fatal and serious accidents	162—169
" " 3. Statement of fatal accidents in mines classified according to cause of accident	170
Appendix III.—Prosecutions—	
Statement of prosecutions under the Indian Mines Act	171—180
Appendix IV.—Miscellaneous—	
Statement No. 1. List of Inspection Circles	181
" " 2. List of certificate holders	181—184
" Nos. 3—14	185—221