

GOVERNMENT OF INDIA
RAILWAY DEPARTMENT
(RAILWAY BOARD)

REPORT
BY THE
RAILWAY BOARD
ON
INDIAN RAILWAYS
FOR
1923-24

Volume I



X415.2r
A868
015975

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH

Price Rs. 3-8 or 5s. 10d.

Government of India Publications are obtainable from the
Government of India Central Publication Branch, 8, Hastings Street, Calcutta,

and from the following Agents :—

EUROPE.

OFFICE OF THE HIGH COMMISSIONER FOR INDIA

42, Grosvenor Gardens, LONDON, S.W. 1.

Dhananjayaro Gadgil Library



GIPE-PUNE-015975

Constable & Co., 10, Orange Street, Leicester Square, London, W.C.
Kegan Paul, Trench, Trübner & Co., 68-74, Carter Lane, E.C., and 89, New Oxford Street, London, W.C.
Bernard Quaritch, 11, Grafton Street, New Bond Street, London, W.
P. S. King & Sons, 2 & 4, Great Smith Street, Westminster, London, S.W.
Grindlay & Co., 54, Parliament Street, London, S.W.
Luzac & Co., 46, Great Russell Street, London, W.C.
W. Thacker & Co., 2, Creed Lane, London, E.C.
T. Fisher Unwin, Ltd., 1, Adelphi Terrace, London, W.C.

Wheldon & Wesley, Ltd., 2, 3 & 4, Arthur Street, New Oxford Street, London, W.C. 2.
East and West Ltd., 3, Victoria St., London, S.W. 1.
B. H. Blackwell, 50 & 51, Broad Street, Oxford.
Deighton Bell & Co., Ltd., Cambridge.
Oliver & Boyd, Tweeddale Court, Edinburgh.
E. Ponsonby, Ltd., 116, Grafton Street, Dublin.
Ernest Leroux, 28, Rue Bonaparte, Paris.
Martinus Nijhoff, The Hague, Holland.
Otto Harrassowitz, Leipzig.
Friedländer und Sohn, Berlin.

INDIA AND CEYLON.

Thacker, Spink & Co., Calcutta and Simla.
W. Newman & Co., Ltd., Calcutta.
R. Cambray & Co., Calcutta.
S. K. Lahiri & Co., Calcutta.
The Indian School Supply Depot, 309, Bow Bazar Street, Calcutta; and 226, Nawabpur, Dacca.
Butterworth & Co., (India), Ltd., Calcutta.
Rai M. C. Sarcar Bahadur & Sons, 90/2A, Harrison Road, Calcutta.
The Weldon Library, 17, Park Street, Calcutta.
Standard Literature Company, Limited, Calcutta.
Association Press, Calcutta.
Chukerverty, Chatterjee & Co., Ltd., 13, College Square, Calcutta.
Higginbotham & Co., Madras.
V. Kalyanarama Iyer & Co., Madras.
P. R. Rama Iyer & Co., Madras.
Rochouse and Sons, Madras.
Bright & Co., Trivandrum.
V. S. Swaminathan, Bookseller, West Tower Street, Madras.
Thacker & Co., Ltd., Bombay.
D. B. Taraporevala, Sons & Co., Bombay.
Sunder Pandurang, Bombay.
Ram Chandra Govind & Sons, Kalbadevi, Bombay.
N. M. Tripathi & Co., Booksellers, Princess Street, Kalbadevi Road, Bombay.
Proprietor, New Kitabkhana, Poona.
The Manager, Oriental Book Supplying Agency, 15, Shukrayar, Poona City.
R. S. Gondhalekar's Book Depot, Publisher and Bookseller, Budhwar Chawk, Poona City.
Managing Director, Co-operative Bookstall, Booksellers and Publishers, Poona City.
The Standard Bookstall, Karachi, Rawalpindi, Murree, Lahore, Peshawar and Quetta.

Karsandas Narandas & Sons, Surat.
A. H. Wheeler & Co., Allahabad, Calcutta and Bombay.
N. B. Mathur, Supdt., Nazir Kanun Hind Press, Allahabad.
The North India Christian Tract and Book Society, 18, Clive Road, Allahabad.
Ram Dayal Agarwala, 184, Katra, Allahabad.
Manager, Newal Kishore Press, Lucknow.
The Upper India Publishing House Ltd., 41, Aminabad Park, Lucknow.
Munshi Seeta Ram, Managing Proprietor, Indian Army Book Depot, Juhi, Cawnpore.
Rai Sahib M. Gulab Singh & Sons, Mufid-i-Am Press, Lahore and Allahabad.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Puri Brothers, Booksellers and Publishers, Katcheri Road, Lahore.
Manager of the Imperial Book Depot, 63, Chandney Chowk Street, Delhi.
Oxford Book and Stationery Company, Delhi.
*Supdt., American Baptist Mission Press, Rangoon.
Proprietor, Rangoon Times Press, Rangoon.
The Modern Publishing House, Ltd., 30, Phayre Street, Rangoon.
The International Buddhist Book Depot, Post Box No. 971, Rangoon.
Manager, the "Hitavada," Nagpur.
S. C. Talukdar, Proprietor, Students & Co., Cooch Behar.
Times of Ceylon Co., Ltd.
The Manager, Ceylon Observer, Colombo.
The Manager, The Indian Book Shop, Benares City.
B. C. Basak, Esq., Proprietor, Albert Library, Dacca.

NOTICE.—Books and Acts required for private use must be purchased. Applications should be accompanied by a remittance, unless it is wished that the book should be sent by value-payable post, in which case, besides the

ordinary postage, an additional charge is made for registration and commission. Books and Acts required for the public service should be obtained through the Local Government to whom the applicant is subordinate.

Books and Technical Papers published by the Railway Board.

BOOKS.

(1) Administration Report on the Railways in India. Published yearly. Price—Volume I, Report, Rs. 3-8-0, Volume II, Rs. 3-12-0 or 6s.

(2) Classified List and Distribution Return of Officers of all Indian Railways. Published half-yearly. Price Re. 1.

(3) History of Indian Railways, constructed and in progress corrected up to 31st March 1923: Published quinquennially. Price Rs. 5-12-0.

(4) History of Services of the Officers of the Engineer and Superior Revenue Establishment of State Railways: Published yearly. Price Rs. 2-8-0.

(5) Pocket Edition of the schedule of dimensions to be observed on 5' 6", 3' 3 $\frac{3}{8}$ " and 2' 6" gauge railways in India, 1922. Re. 1-8-0 for the 5' 6" and 3' 3 $\frac{3}{8}$ " gauge edition and Re. 1-0-0 for the 2' 6" gauge edition.

(6) Railway Statistics—Class I Indian Railways. Published monthly. Price Re. 1-6-0.

TECHNICAL PAPERS.

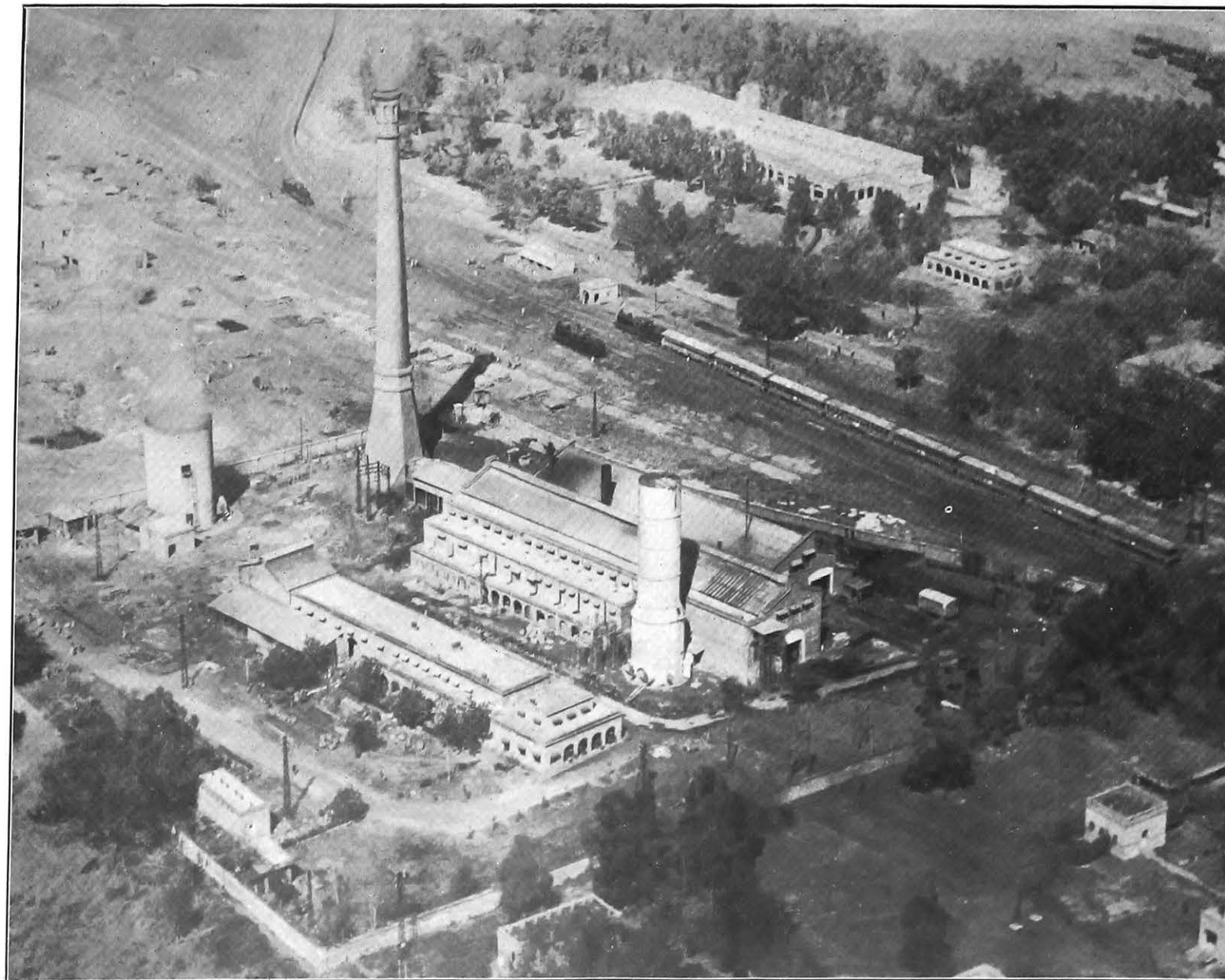
(7) Over 200 papers have been published by the Technical Section of the Railway Board's office. The papers comprise—

- (a) Original descriptions of Railway Works and studies of railway problems in India and elsewhere.
- (b) Reprints of articles from Foreign Engineering Magazines.
- (c) Reprints or abstracts of reports received by the Government of India on subjects connected with railways.

A complete list of the papers can be obtained *gratis* from the Chief Engineer with the Railway Board. A few of the more important Technical papers are mentioned below:—

Name.	Author.
The design of well foundations for bridges	(Compiled.)
Statistics of railway working expenditure	G. DEUCHARS.
River training and control on the guide bank system	F. J. E. SPRING.
Mountain railways	G. DEUCHARS.
Rules for the preparation of Railway Projects
Oil fuel trials on the North Western Railway of India, 1913-16
Note on Locomotive design as it affects the Bridge Engineer	C. W. ANDERSON.
Control of Railway Traffic by Telephone—	
(i) Methods adopted on the Great Indian Peninsula Railway	V. L. DEAN.
(ii) Methods adopted in England	Captain W. R. R. MOORE BENNET.
The Hardinge Bridge over the Lower Ganges at Sara	Sir ROBERT GALES.
Technical education in relation to Railways in America	H. L. COLE.
Indian Standard Locomotives (5' 6" gauge)	H. L. COLE.
The prices of the papers vary from Annas Four to Rupees Eight.	

The books and papers can be bought from the Government of India, Central Publication Branch, 8, Hastings Street, Calcutta.



Aeroplane photograph of Electric Power Station, Moghalpura, North Western Railway, with offices of Locomotive Superintendent in the background.

GOVERNMENT OF INDIA
RAILWAY DEPARTMENT
(RAILWAY BOARD)

REPORT
BY THE
RAILWAY BOARD
ON
INDIAN RAILWAYS
FOR
1923-24

Volume I



CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH

CONTENTS.

CHAPTER I.—GENERAL ADMINISTRATION.

	PAGE.
1. General review	1
2. Re-organisation of the Railway Board	4
3. Re-organisation of Railway Finance	7
4. Other recommendations of the Acworth Committee	9
5. Indian Retrenchment Committee	10
6. Re-organisation on Railways	11
7. Transfer of the East Indian and Great Indian Peninsula Railways to State management	13
8. Meetings with Agents and Inspections	13
9. Railways and the Legislature	13
10. Central Advisory Council	15

CHAPTER II.—FINANCIAL RESULTS OF THE YEAR'S WORKING.

11. Trade review	17
12. Financial results of working	17
13. Analysis of earnings	22
14. Analysis of working expenses	24
15. Economies effected during the year	26
16. Compensation claims for goods lost or damaged	27
17. Stores balances	28

CHAPTER III.—NEW CONSTRUCTION AND ENGINEERING WORKS.

18. Capital expenditure	31
19. Lines opened during 1923-24	32
20. Lines under construction on 31st March 1924	33
21. New projects	38
22. Capital programme	39
23. Electrification of railways	41
24. Other improved facilities on open lines	41

CHAPTER IV.—ROLLING-STOCK AND MATERIALS.

25. Additions to equipment	47
26. Standardisation of rolling-stock	48
27. New types of rolling-stock	49
28. Automatic buffer coupler	50
29. Working of the wagon pool	50
30. Repair of wagons	51
31. Wagon supplies in the coalfields	51
32. Value of railway materials purchased	52
33. Coal supplies	55

CHAPTER V.—STAFF.

34. Number of staff	57
35. Cost of staff	57
36. Indianisation	58
37. Training of railway staff	64
38. Recruitment	64
39. Strikes	64

CHAPTER VI.—MISCELLANEOUS.

	PAGE.
40. Increased facilities for lower class passengers	65
41. Flood damages	68
42. Accidents	70
43. Local Advisory Committees	72

APPENDICES.

A.—Notes on the relation of the Government to Railways in India	73
B.—The organisation for Government control	79
C.—Memorandum on the separation of Railway from the General Finances	85