

VICE-REGAL COMMISSION ON IRISH RAILWAYS, INCLUDING  
LIGHT RAILWAYS.

S.1796

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FIFTH AND FINAL REPORT

OF

THE COMMISSIONERS.

VOLUME VI.



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Presented to both Houses of Parliament by Command of His Majesty.

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**VICE-REGAL COMMISSION UNDER HIS EXCELLENCY'S  
SIGN MANUAL.**

DUBLIN CASTLE,

July 19, 1906.

The Lord Lieutenant has been pleased to issue a Commission to the following effect:—

BY THE LORD LIEUTENANT GENERAL AND GENERAL GOVERNOR OF IRELAND.

**ABERDEEN.**

WHEREAS it is deemed expedient that a Commission should issue to inquire into the present working of Railways in Ireland, including Light Railways, and to report how far they afford, separately or in conjunction with other means of transit, adequate facilities for the cheap and rapid transport of goods and passengers within the island and to Great Britain; what causes have retarded the expansion of traffic upon the Irish lines and their full utilisation for the development of the agricultural and industrial resources of the country; and, generally, by what methods the economical, efficient, and harmonious working of the Irish Railways can best be secured:

Now We, John Campbell, Earl of Aberdeen, Lord Lieutenant General and General Governor of Ireland, do hereby nominate, constitute, and appoint you, Sir Charles Scotter, Chairman of the London and South-Western Railway (Chairman); the Right Honourable William James Pirrie, Chairman of Harland and Wolff, Limited, Shipbuilders and Engineers; Sir Herbert Jekyll, Knight Commander of the Most Distinguished Order of St. Michael and St. George, an Assistant Secretary of the Board of Trade; Lieutenant-Colonel William Hutcheson Poë, Companion of the Most Honourable Order of the Bath; Thomas Sexton, Esquire; William Mitchell Acworth, Esquire; and John Audley Frederick Aspinall, Esquire, General Manager of the Lancashire and Yorkshire Railway, to be Commissioners for the purpose aforesaid.

And for the better effecting the purpose of this Our Commission, We do by these presents authorise and empower you, or any two or more of you to be named by you, to call before you or any two or more of you, to be so named, such persons as you may think fit to examine, and by whom you may be the better informed of the matter hereby submitted for your consideration and everything connected therewith, and generally to inquire of and concerning the premises by all other lawful ways and means whatsoever. And also to call for and examine such books, papers, documents, writings or records, as you or any two or more of you as aforesaid shall think useful for the purpose of the inquiry.

And We also by these presents authorise and empower you, or any two or more of you as aforesaid, to visit and personally inspect such places as you, or any two or more of you, may deem expedient for the purpose aforesaid. And Our pleasure is that you, or any two or more of you as aforesaid, do from time to time and with all convenient speed report to Us what you shall find touching and concerning the premises.

And We further by these presents ordain that this Our Commission shall continue in full force and virtue, and that you, Our Commissioners, do from time to time proceed in the execution thereof, although the same not be continued from time to time by adjournment.

And We do hereby appoint George E. Shanahan, Esquire, the Assistant Secretary to the Commissioners of Public Works in Ireland, to be the Secretary of this Our Commission.

Given at His Majesty's Castle at Dublin, this 18th day of  
July, 1906.

By His Excellency's Command.

J. B. DOUGHERTY.

The Commission, at its first sitting, adopted the short title of:—  
THE VICE-REGAL COMMISSION ON IRISH RAILWAYS.

LIST OF PUBLICATIONS ISSUED BY THE COMMISSION

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- I.—1. First Report (Cd. 3632)—Issued 9th July, 1907.
2. Appendix to the First Report (Cd. 3633), containing Minutes of Evidence (12th October, 1907 to 1st March, 1907), tables, memoranda, map, etc.—Issued 18th September 1907.
- II.—1. Second Report (Cd. 3895)—Issued 13th January, 1908.
2. Appendix to the Second Report (Cd. 3896), containing Minutes of Evidence (12th March, 1907, to 9th July, 1907), tables, memoranda, maps, etc.—Issued 13th February, 1908.
- III.—1. Third Report (Cd. 4053)—Issued 25th April, 1908.
2. Appendix to the Third Report (Cd. 4054), containing Minutes of Evidence (11th October, 1907 to 16th November, 1907), tables, memoranda, etc.—Issued 21st May, 1908.
- IV.—1. Fourth Report (Cd. 4204)—Issued 4th July, 1908.
2. Appendix to the Fourth Report (Cd. 4205), containing Minutes of Evidence (10th January, 1908 to 14th March, 1908), tables, memoranda, etc.—Issued 11th August, 1908.
- V.—Second Appendix to the Fourth Report (Cd. 4481), containing Minutes of Evidence (16th June, 1908 to 16th October, 1908), tables, memoranda, maps, etc.—Issued 9th February, 1909.
- VI.—Final Report (Cd. 5247).—Issued July, 1910.
- VII.—Appendix to the Final Report (Cd. 5248), containing Minutes of Evidence (10th November, 1908, to 29th January, 1909), tables, memoranda, maps, etc.—Issued July, 1910.

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OF THE

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## APPENDIX.

*Cloud and Upper Air observations on Calcutta-Rangoon route in July 1922.*

Date.	Calcutta.	Bari-al	Chittago'g.	Akyab.	Kyauppyu.	Rangoon.	
1st	{ a. ...	10	6 h	7 m	10	7	9
	{ b. ...	8 hrs. 07	...	...	6 hrs. 06	d	..
2nd	{ a. ...	8	8	6 h	7	3 h	5 h
	{ b. ...	...	...	...	9 hrs. 6.0	...	...
3rd	{ a. ...	7	6 m	4 h	8	7 m	9 h
	{ b. ...	6 hrs. 6.0	...	...	11 hrs. 2.0	...	...
4th	{ a. ...	6	6	7 h	5	6 m	10 h
	{ b. ...	7 hrs. 2.3	...	...	...	...	...
5th	{ a. ...	10 m	3 h	2 h	8	7	10
	{ b. ...	7 hrs. 1.7	...	...	...	...	...
6th	{ a. ...	6 h	3 h	3 h	10	5 h	9
	{ b. ...	6 hrs. 6.0	...	...	...	...	...
7th	{ a. ...	10	5 h	3 h	10	10	9 h
	{ b. ...	7 hrs. 0.8	...	...	...	...	...
8th	{ a. ...	10	7 h	5 m	10	5 h	10
	{ b. ...	...	...	...	11 hrs. 0.5	...	...
9th	{ a. ...	10	6	9	10	9	10
	{ b. ...	d	...	r	10 hrs. 1.0	...	...
10th	{ a. ...	10	10 m	8 m	10	5	10
	{ b. ...	7 hrs. 1.4	...	...	...	...	...
11th	{ a. ...	10	7 h	7 m	10	7	10
	{ b. ...	6 hrs. 1.0	...	...	...	...	...
12th	{ a. ...	10	8 m	2 h	10	6	10
	{ b. ...	6 hrs. 2.7	...	...	r	...	d
13th	{ a. ...	10	4 h	9 m	10	10	10
	{ b. ...	6 hrs. 1.0	...	...	r	...	...
14th	{ a. ...	10	9 m	7 m	10	10	10
	{ b. ...	d	d	...	d	d	...
15th	{ a. ...	10 m	8 h	10	10	5 m	10
	{ b. ...	6 hrs. 1.6	...	r	11 hrs. 4.1	...	..
16th	{ a. ...	8	8 m	10	10	7	10
	{ b. ...	6 hrs. 5.0	d	r	11 hrs. 4.2	...	d
17th	{ a. ...	10	6 h	10	10	9	10
	{ b. ...	6 hr 1.4	...	r	r	...	...
18th	{ a. ...	8	7 h	10	10	10	10
	{ b. ...	6 hrs. 2.9	...	d	r	d	d

*Cloud and Upper Air observations on Calcutta-Rangoon route in July  
1922—concl'd.*

Date.	Calcutta.	Baisal.	Chittagong.	Akrab.	Kyaukpyu.	Rangoon.
19th	{ a. ... 10 b. ... 6 hrs. 60	{ 5 h d	{ 8 h ...	{ 10 ...	{ 5 ...	{ 10 d
20th	{ a. ... 8 b. ...	{ 7 ...	{ 1 h ...	{ 10 ...	{ 6 ...	{ 10 ...
21st	{ a. ... 10 b. ... 6 hrs. 10	{ 5 m ...	{ 1 h ...	{ 10 ...	{ 4 ...	{ 10 r
22nd	{ a. ... 10 b. ...	{ 8 m ...	{ 9 m ...	{ 10 11 hrs. 08	{ 10 d	{ 10 ...
23rd	{ a. ... 10 b. ... 6 hrs. 16	{ 9 r	{ 10 d	{ 10 11 hrs. 15	{ 9 ...	{ 10 d
24th	{ a. ... 10 b. ...	{ 8 m ...	{ 9 r	{ 10 ...	{ 10 d	{ 9 h ...
25th	{ a. ... 10 b. ... 6 hrs. 12	{ 5 h ...	{ 10 d	{ 10 r	{ 10 r	{ 10 ...
26th	{ a. ... 10 b. ... 6 hrs. 07	{ 8 m ...	{ 3 h ...	{ 10 r	{ 10 d	{ 10 ...
27th	{ a. ... 8 b. ... 6 hrs. 04	{ 8 m ...	{ 3 h ...	{ 10 r	{ 9 ...	{ 10 ...
28th	{ a. ... 10 b. ...	{ 8 m ...	{ 4 h ...	{ 10 r	{ 10 d	{ 10 d
29th	{ a. ... 10 b. ... d	{ 6 ...	{ 10 d	{ 10 r	{ 10 r	{ 10 ...
30th	{ a. ... 10 b. ...	{ 7 h ...	{ 8 h ...	{ 10 r	{ 9 ...	{ 10 ...
31st	{ a. ... 10 b. ... d	{ 8 m d	{ 8 m ...	{ 10 r	{ 10 r	{ 10 ...



## APPENDIX

*Cloud and Upper Air Observations on Calcutta-Bangook route in August 1922.*

Date.	Calcutta.	Barisal.	Chittagong.	Akyob.	Kyaukpyn.	Rangoon.
1st	a. ...	10	8 m	8 m	10	10
	b. ...	d	...	...	r	d
2nd	a. ...	10	6 h	10	10	10
	b. ...	d	...	r	r	...
3rd	a. ...	6 h	9	7	10	10
	b. ...	6 hrs. 0.5	d	r	r	...
4th	a. ...	10	4 m	7 h	10	10
	b. ...	...	...	...	r	r
5th	a. ...	10	9 m	10	10	10
	b. ...	r	...	d	r	...
6th	a. ...	10	6 h	10	9	10
	b. ...	r	...	r	7 hrs. 0.4	...
7th	a. ...	10	8 h	9	8	10
	b. ...	6 hrs. 0.8	...	d	9 hrs. 0.4	...
8th	a. ...	10 m	6 m	8 m	10	9
	b. ...	6 hrs. 1.2	...	...	d	...
9th	a. ...	10	8 h	10 m	10	7
	b. ...	...	...	d	r	...
10th	a. ...	10 m	8 h	7 m	10	10
	b. ...	6 hrs. 2.2	d	...	8 hrs. 1.1	d
11th	a. ...	10	9 h	9	10	10
	b. ...	6 hrs. 2.0	d	r	d	d
12th	a. ...	10	6 h	9 m	10	10
	b. ...	6 hrs. 1.6	...	...	11 hrs. 1.5	...
13th	a. ...	8	5 h	5 h	10	5
	b. ...	6 hrs. 2.0	...	...	11 hrs. 3.3	...
14th	a. ...	10	4 m	8 h	7	7
	b. ...	6 hrs. 1.4	...	...	10 hrs. 0.6	...
15th	a. ...	4	4 m	3 h	10	5
	b. ...	6 hrs. 6.0	...	...	r	...
16th	a. ...	8	5 m	1 h	6	3 h
	b. ...	...	...	...	8 hrs. 0.5	...
17th	a. ...	10	6 m	3 h	10	9
	b. ...	6 hrs. 3.3	...	...	d	...
18th	a. ...	10	8 m	6 h	10	10
	b. ...	6 hrs. 0.5	d	...	d	...

*Cloud and Upper Air Observations on Calcutta-Rangoon route in August 1922—concl.*

Date.	Calcutta.	Barisal.	Chittagong.	Akyab.	Kyaukpya.	Rangoon.
19th	a. ... 8	8 h	8 h	10	10	10
	b. ...	...	...	r	d	...
20th	a. ... 10	8 m	8 m	10	9	10
	b. ... 8 hrs. 19	...	...	r	...	d
21st	a. ... 10	5 m	8 h	4	3 m	8
	b. ... 8 hrs. 60	...	...	6 hrs. 27	...	...
22nd	a. ... 4	4 h	7 h	10	10	10
	b. ... 8 hrs. 60	...	...	10 hrs. 38	...	...
23rd	a. ... 6	6 m	7 h	5	4	5
	b. ... 8 hrs. 34	...	...	8 hrs. 60	...	...
24th	a. ... 8	5 m	8 h	7	8	10
	b. ... 6 hrs. 60	...	...	10 hrs. 60	...	...
25th	a. ... 6	6 m	7 h	10	10	10
	b. ... 6 hrs. 60	...	...	d	...	r
26th	a. ... 8	4	9 m	10	10	10
	b. ... 8 hrs. 60	...	...	r	d	d
27th	a. ... 10	5	8 m	10	...	...
	b. ... d	...	...	11 hrs. 30	...	d
28th	a. ... 10	8	9 m	10	10	10
	b. ... 7 hrs. 28	...	...	...	...	...
29th	a. ... 10	4 h	8	10	7	9
	b. ... 8 hrs. 22	...	...	r	...	...
30th	a. ... 10	...	...	...	...	10
	b. ... 6 hrs. 10	...	...	8 hrs. 60	...	...
	a. ... 10	5 h	7 h	7	5 m	8 h
	b. ... 6 hrs. 60	...	...	10 hrs. 60	...	...

APPENDIX

Cloud and Upper Air Observations on Calcutta-Rangoon route in September 1922.

Date.	Calcutta.	Barisal.	Chittagong.	Akyab.	Kyaukpyn.	Rangoon.
1st	{ a. ... 9 b. ... 5 hrs. 60	2 h	2 h	7 11 hrs. 60	10	10 d
2nd	{ a. ... 10 b. ... 6 hrs. 42	6	7 h	8	10	10
3rd	{ a. ... 10 b. ... 7 hrs. 10	5 h	2 m	10	7	10
4th	{ a. ... 9 b. ...	6 m	4 h	10	10	10
5th	{ a. ... 10 b. ... 6 hrs. 15	8	6	7	7 m	10
6th	{ a. ... 8 b. ...	9	6 h	10	6	8 h
7th	{ a. ... 8 b. ... 6 hrs. 07	6 m	1 h	8	5 m	10
8th	{ a. ... 8 b. ... 6 hrs. 09	6 h	4 h	7	6	10
9th	{ a. ... 8 b. ...	7 m	1 h	8	10	10
10th	{ a. ... 10 b. ...	6 m	1 h	8	3 h	9
11th	{ a. ... 8 b. ... 6 hrs. 12	...	6 h	7	8 h	10 h
12th	{ a. ... 10 m b. ... 6 hrs. 29	6 m	...	7	4 m	10
13th	{ a. ... 8 h b. ... 6 hrs. 14	7 m	5 h	10 hrs. 60	7 m	...
14th	{ a. ... 8 b. ... hrs. 11	3 h	7 m	7	7 m	...
15th	{ a. ... 7 h b. ...	2 h	6 h	7 hrs. 48	...	10
16th	{ a. ... 8 b. ... 7 hrs. 11	7 m	...	10	10	10
17th	{ a. ... 5 h b. ... 6 hrs. 15	7 m	6 h	10	9	10
	{ a. ... 10 b. ...	5 h	8 h	8	5 h	9
	{ a. ... b. ...	...	...	9 hrs. 60	...	...

Cloud and Upper Air Observations on Calcutta-Rangoon route in September 1922—concl.

Date.	Calcutta.	Barisal.	Chittagong.	Akyab.	Kyaukpadaung.	Rangoon.
19th	8 6 hrs. 15	8 h	8 h	6 7 hrs. 00	8	10
20th	6 8 hrs. 60	8 h	1 h	6 7 hrs. 21	6 h	8
21st	10	6	1 R	6	8 h	10
22nd	7 h 7 hrs. 20	8 h	6 m	6 r	10 d	9 h
23rd	10	6 m	7 m	10 r	10 d	8 h
24th	10	4 h	9	6 9 hrs. 15	8	8 h
25th	10	7 m	1 R	4 6 hrs. 60	5	10
26th	10	6 m	8 h	4 9 hrs. 60	6 m	9 h
27th	10	6 h	8 h	10 7 hrs. 60	5 h	9 h
28th	10 6 hrs. 30	8 m	1 h	4 7 hrs. 60	5 h	10
29th	6 8 hrs. 30	6	8 h	9 7 hrs. 45	8	10
30th	5 m 6 hrs. 60	6 h	6 h	9 7 hrs. 00	5	10

## References:—

a. = Cloud data.

b. = Upper air.

c. = Cloud data.

Figures in line a denote quantity of cloud.

Figs complete overcast with clouds low.

L = small amount of low clouds.

5 m = 50% overcast medium height-clouds.

5 h = 50% overcast high clouds.

Upper air in line b. —

9 hrs. 32 = observation taken at 9 A. M. cloud level was at a height of 2,200 metres.

8 hrs. 03 = at 8 A. M. cloud level = 303 metres.

Kx = Thunder storms.

d = drizzle.

r = rain.

NOTE—Calcutta and Akyab are the only Upper Air Observation stations on this route.

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