

CEYLON.



ADMINISTRATION REPORTS, 1903.

PART II. — SCIENTIFIC.

PUBLIC WORKS.

REPORT OF MR. L. CREASY, M.L.C., ACTING DIRECTOR.

PART II.—SCIENTIFIC.

PUBLIC WORKS.

REPORT OF THE ACTING DIRECTOR OF PUBLIC WORKS FOR 1903.

I HAVE the honour to transmit the report of the Public Works Department for last year.

EXPENDITURE.

2. The following statement represents the total expenditure during 1903:—

	Rs.	c.
Personal Emoluments ...	463,488	62
Public Works Annually Recurrent ...	2,240,085	99
Public Works Extraordinary ...	1,339,699	31
Chargeable to Loans and other Funds ...	1,275,967	85
Total ...	5,319,241	77

3. In Appendix 1 will be found the Public Works Annually Recurrent expenditure charged against votes in the Supply Estimates, and in Appendix 1A that charged against commutation and private contribution funds. In Appendix 2 will be found the expenditure upon Public Works Extraordinary charged against votes in the Supply Estimates, and in Appendix 2A that charged against Provincial Road Committee and private contribution funds. In Appendix 3 will be found the total expenditure classified under the several headings of account in each Province, including that charged against loans and other funds.

4. The total expenditure in the several Provinces was as follows:—

Province.	Public Works Annually Recurrent.	Public Works Extraordinary, including Loan Works.	Total.
	Rs. c.	Rs. c.	Rs. c.
Western ...	569,853 43 ⁰	1,618,115 38 ⁰	2,187,968 81
Central ...	430,337 61	270,965 45	701,303 6
Northern ...	137,226 90	102,891 59	240,118 49
Southern ...	227,250 43	102,462 60	329,713 3
Eastern ...	156,210 74	138,825 98	295,036 72
North-Western ...	200,410 99	71,655 71	272,066 70
North-Central ...	118,717 28	59,959 65	178,676 93
Uva ...	196,837 6	88,907 29	285,744 35
Sabaragamuwa ...	203,241 55	161,883 51	365,125 6
	2,240,085 99	2,615,667 16	4,855,753 15
		Establishment ...	463,488 62
		Total ...	5,319,241 77

* Including expenditure under heading "Miscellaneous" (*vide* Appendix 3).

MAINTENANCE OF ROADS.

5. The roads in the Colony are classified under the following descriptions:—Metalled, Track Metalled, Gravelled, and Natural. The total length maintained during the year in each Province was as follows:—

Province.	Metalled. Miles.	Track Metalled. Miles.	Gravelled. Miles.	Natural. Miles.	Total. Miles.
Western ...	315.06	—	47.89	—	362.95
Central ...	541.66	—	67.63	49.25	658.54
Northern ...	315.90	—	89.00	114.00	518.90
Southern ...	284.39	—	36.50	—	320.89
Eastern ...	161.25	—	135.21	54.00	350.46
North-Western ...	183.66	146.50	76.21	29.00	435.37
North-Central ...	112.47	68.75	131.59	—	312.81
Uva ...	230.78	—	29.83	97.00	377.61
Sabaragamuwa ...	191.97	73.65	32.16	25.00	322.78
Total ...	2,357.14	288.90	646.02	368.25	3,660.31

The above statement shows an increase of 12.99 miles of roads in charge of this Department.

6. In Appendix 4 will be found a return giving the name of each road, length, description, and particulars in regard to cost of maintenance, approximate average traffic; regular traffic returns are not kept by the Department.

7. The average cost per mile of road maintenance in the several Provinces was as follows :—

Province.	Metalled. Rs.	Track Metalled. Rs.	Gravelled. Rs.	Natural. Rs.	General Average. Rs.
Western	799	—	358	—	741
Central	630	—	227	61	557
Northern	289	—	201	58	222
Southern	619	—	212	—	572
Eastern	547	—	265	38	360
North-Western	486	420	192	22	374
North-Central	417	416	174	—	322
Uva	661	—	299	73	481
Sabaragamuwa	668	439	242	93	529

The general average throughout the Colony was—metalled, including track metalled roads, Rs. 569 per mile, gravelled roads Rs. 230 per mile, and natural roads Rs. 59 per mile.

8. The roads throughout the Island have been maintained in fair working order, but owing to the failure of the rains during the month of November the progress in regard to consolidation of metal was retarded to a considerable extent.

MAINTENANCE OF INLAND NAVIGATION.

9. No work of any exceptional importance has been incurred upon canals. Surveys of the canal from Colombo to Puttalam *via* Negombo are in hand.

FLOOD OUTLETS.

10. No work of any importance has been necessary under this heading.

REPAIRS TO PUBLIC BUILDINGS.

11. The following tabular statement indicates the total number of public buildings in charge of this Department in each Province :—

Province.	Government Buildings, exclusive of Police Stations and Hospitals.	Queen's House.	Police Buildings.	Medical Aid Hospitals.	Government Hospitals and Dispensaries.	Total.
Western	65	1	15	1	25	107
Central	91	2	18	20	16	147
Northern	179	1	3	—	19	202
Southern	61	—	9	2	17	89
Eastern	45	—	1	—	12	58
North-Western	50	—	2	—	8	60
North-Central	59	—	—	—	14	73
Uva	35	—	2	5	6	48
Sabaragamuwa	47	—	4	4	11	66
Total	632	4	54	32	128	850

12. The statement below denotes the average expenditure per public building in each Province during the year :—

Province.	Government Buildings, exclusive of Police Stations and Hospitals.	Queen's House.	Police Buildings.	Medical Aid Hospitals.	Government Hospitals and Dispensaries.
	Rs.	Rs.	Rs.	Rs.	Rs.
Western	502	2,565	363	304	580
Central	134	3,043	133	318	404
Northern	34	249	186	—	98
Southern	150	—	108	131	89
Eastern	132	—	328	—	142
North-Western	92	—	248	—	227
North-Central	98	—	—	—	196
Uva	98	—	119	188	263
Sabaragamuwa	95	—	120	370	161

REPAIRS TO BRIDGES EXCEEDING FIFTY FEET IN LENGTH.

13. The annual repairs to all bridges exceeding 50 feet in length have been effected.

WORKS UNDERTAKEN DURING 1903.

14. The following are the principal public works in progress during the year :—

Western Province.

Technical College, Colombo.
 Improvements, Supreme Court, Colombo.
 Administration block, General Civil Hospital, Colombo.
 Calf vaccination dépôt, Colombo.
 Kitchens, Kew police barracks, Colombo.
 Process studio, Surveyor-General's Office, Colombo.
 Offices, Colombo Museum, Colombo.
 Quarters for the Religious Sisters, Government Civil Hospital, Colombo.
 Special repairs to Kew police barracks, Colombo.
 Victoria Memorial Eye Institution.
 Erection of electric crane, shed, and quay walls, H. M. Customs, Colombo.
 Widening Seashore street, Colombo.
 The Queen's statue, Colombo.
 Improvement, Horawela and Moragala road.
 Improvement, Panadure and Nambapana road.
 Renewal of bridges, Bope road.
 Renewal of bridges, Veyangoda and Ruwanwella road.
 Special repairs to bridges, Kalutara District.
 Drainage, Minuwangoda bazaar.
 Survey of Hamilton and Keymal canals.
 Duplication of water main from Labugama.
 Elie reservoir, Colombo.

Central Province.

Alterations and additions to Controller's bungalow, Experimental Gardens, Peradeniya.
 Lodge, Experimental Gardens, Nuwara Eliya.
 Police station and barracks, Agrapatana.
 Medical Aid Hospital, Dikoya.
 Circuit bungalow, 31st mile, Lindula-Nuwara Eliya road.
 Additions, Police barracks, Matale.
 Additions, Government Civil Hospital, Matale.
 Alterations, Uda Pussellawa hospital.
 Improvements to Fiscal's Office, Kandy.
 Electric light installation, Old Palace, Kandy.
 Converting Grand Hotel into Public Works Department Offices, Kandy.
 Converting Grand Hotel into Public Offices, Kandy.
 Special repairs to Jail, Nuwara Eliya.
 Special repairs to Medical Officer's quarters, Glencairn.
 Ulapane and Riverside branch road.
 Approach road to railway station, Nuwara Eliya.
 Aladeniya and Iriyagama road.
 Kadugannawa and Alagalla road.
 Ulapane bridge.
 Alterations to Huluganga bridge.
 Adjusting satinwood bridge, Peradeniya.
 Dredger and barge, lake, Nuwara Eliya.
 Water supply, Madulkele.

Northern Province.

Dispensary, Chavakachcheri.
 Post Office, Mannar.
 Alterations, Government Civil Hospital, Puloli.
 Special repairs to H. M. Customs and jetty, Kankasanturai.
 Parantan and Mullaittivu road.
 Coast road, Mantai-Illuppakadavai.
 Coast road, northern portion to Puneryn.
 Improvements, Mullaittivu new trace.
 Vavuniya and Parayanalankulam road.
 Mannar and Pesalai road.
 Pesalai and Yakawewa road.
 Mannar causeway.
 Elephant Pass bridge.
 Water supply, Jaffna.

Southern Province.

Dispensary, Ambalantota.
 Post Office, Deniyaya.
 Jetty, Hambantota.
 House for Kachcheri Clerk, Hambantota.
 Improvements to Government Civil Hospital, Tangalla.
 Repairs to District Judge's quarters, Galle.
 Improvements to Matara and Akuressa road.
 Improvement, Hambantota and Bundala road.
 Mahamodara bridge.
 Gintota bridge.
 Polwattamodara bridge.
 Adjusting bridges, Ambalantota, and re-planking Magum-oya bridge, Matara.
 Converting four timber bridges into iron and concrete bridges, Galle and Akuressa road.
 Repairs to rampart wall, Galle.

Eastern Province.

Police station and barracks, Batticaloa.
 Tramway jetty, Kalkuda.
 Resthouse, Kalmunai.
 Passenger and goods jetty, Trincomalee.
 South Coast road extension.
 Ondatchimadam causeway.
 Causeway, 65th mile, South Coast road.
 Coast road, Verugal to Kiliveddi.
 Trincomalee and Kituluttu road.
 85th mile, Maduru-oya and Ekiriyankumbura road.
 Kanganianodai bridge.
 Urani bridge and causeway.
 Converting timber platform bridges, Kalmunai-Akkaraipattu road.

North-Western Province.

Approach roads to kottus, Palavi.
 Vilakatupota to Gonawatta railway station and to Hiripitiya.
 Nikaweratiya and Maho road.
 Maho and Polpitigama road.
 Track metalling road from Puttalam to Battulu-oya.
 Repairs to flood damages, North-Western Province.
 Converting timber bridges into iron ones, Puttalam District.
 Surveys, Toppu and Puttalam canal.

North-Central Province.

District Court, Anuradhapura.
 Medical Officer's quarters, Anuradhapura.
 Extension of Habarana-Topawewa road.
 Approach road to rail way station, Anuradhapura.
 Improvements to road from Habarana to Topawa road.
 Improvements to Maradankadawela and Habarana road.
 For strip metalling road, Madawachchi and Yakwewa road.
 Improvements to road, Kekirawa to Talawe.

Province of Uva.

Extension of Bibile-Medagama and Obbekota road.
 Haputale-Dambatenna branch road.
 Improvements, Wellawaya-Tanamalwila road.

Province of Sabaragamuwa.

Post and Telegraph Office, Rakwana.
 Male ward, Kegalla hospital.
 Temporary ward, Rakwana hospital.
 Witness-sheds and record-room, Police Court, Avisawella.
 Madampe-Hambantota road extension.
 Madampe road deviation.
 Balangoda-Chetnole branch road.
 Polatagama-Ardross road.
 Extra works, Algoda causeway.
 Converting timber bridges into iron ones, Avisawella District.
 Drains, Dehiowita bazaar.
 Replacing timber bridges by iron ones, Pelmadulla-Gilgarron road.

15. I shall now enumerate the public works that have been undertaken by the Department during the year in each Province. The particulars are chiefly taken from the annual reports furnished by the Provincial Engineers.

WESTERN PROVINCE.

Public Works Annually Recurrent.

16. *Maintenance of Roads.*—The metalled roads have been maintained in fair working order throughout the year, in spite of the fact that in the early part of the year the roads suffered from flood damages and towards the end of the year the rains failed; consequently it was a difficult matter to consolidate the metal in a satisfactory manner.

17. *Maintenance of Inland Navigation.*—The usual method in regard to maintenance of the canals has been carried out, but a dredger for the canals has been allowed, and it is hoped that the canal may in future be dredged in a workmanlike and proper manner.

18. *Flood Outlets* have been maintained and worked satisfactorily during the months of August, September, and October.

19. *Repairs to Buildings.*—The various buildings have received attention during the year.

20. *Maintenance of Customs, Wharves, Jetties, and Cranes.*—The annual repairs have been executed.

21. *Additions and Alterations to Buildings.*—The following works have been carried out during the year :—

Improvements to the Borella Convict Hospital.
 Certain improvements to De Soysa's Lying-in Home.
 Certain improvements, General Hospital, Colombo.
 Permanent shed, Pettah police station.
 Improvements to the armoury, police station, Slave Island.

22. *Repairs to Bridges.*—The bridges have received attention during the year.

23. *Miscellaneous.*—

Protection of H. M. Customs approach road, Beruwala.
 Surveys of inroads of sea, Bentota bridge.
 An engine room, Government Printing Office.
 Boundary wall adjusted, St. Paul's, Colombo.

Public Works Extraordinary.

24. *New Works and Buildings.*—The following works have been completed :—

Calf vaccination depôt, Colombo.
 Cooly lines and Overseer's quarters, Ruwanwella, and Veyangoda road.
 New Minor Courts, Colombo.
 New Fiscal's Office, Colombo.

The following works are in progress :—

Technical College, Colombo.
 Kitchens, Kew police barracks, Colombo.
 Supreme Court, Colombo.
 Administration block, General Civil Hospital, Colombo.

25. *Additions and Alterations to Buildings.*—The following works have been completed :—

Process studio, Surveyor-General's Office, Colombo.
 Presses for records, Provincial and Assistant Provincial Registrar's Offices, Colombo.
 Store, Government Factory.
 Additions and improvements to Religious Sisters' quarters, General Hospital, Colombo.
 Additions to Colombo Museum.

The following work is in hand :—

Drainage, Welikada jail.

26. *Special Repairs to Buildings.*—The King's Transshipment Warehouse, Colombo, has been repaired, and the repairs to the Kew police barracks are in progress.

27. *Additions and Improvements to Roads.*—The improvements to the Panadure and Nambapana road have been completed, and the improvements to Horawela and Moragala road are in hand.

28. *New Bridges.*—The following works have been completed :—

Renewal of bridges, Bope road, Colombo District.
 Renewal of bridges, Veyangoda-Ruwanwella road.

29. *Repair of Bridges.*—The repairs to bridges, Kalutara District, were completed.

30. *Lands and Buildings acquired.*—The following quarries have been acquired :—

Palatota quarry, Kalutara District.
 Dalupitiya quarry, Negombo District.
 Two quarries, 10th and 32nd mileposts, Colombo and Kandy road.

31. *Miscellaneous.*—The following works have been completed :—

Converting 11 timber bridges into iron ones and concrete.
 Hamilton canal.
 Engine and boiler in the bridge shop, Government Factory.
 Queen's statue, Colombo.

And the following work is in progress :—

Drainage, Minuwangoda bazaar.

CENTRAL PROVINCE.

Public Works Annually Recurrent.

32. *Maintenance of Roads.*—The roads have been maintained in working order, save the following :—The Slip, Pundaluoya-Tawalantenna road, 55th mile, Ramboda-Wilson's Bungalow road, and certain parts of the Matale, Udapelella, Kalalpitiya, and Ukuwela road recently taken over from the District Road Committee, Matale.

33. *Repairs to Buildings.*—The buildings have received due attention in regard to ordinary annual repairs.

34. *Additions and Improvements to Buildings.*—The following works were carried out during the year :—

Cementing floors of verandahs, Government Civil Hospital, Kandy.
 Old Palace, Kandy.
 Herbarium, Royal Botanic Gardens, Peradeniya.
 Bogambra jail, Kandy.

The following works are in progress :—

Improvements to the drainage, Lindula hospital.
 Improvements to the drainage, police station, Hatton.

35. *Repairs of Bridges.*—The usual annual repairs to the bridges have been executed during the year. The movements of the satinwood bridge, Peradeniya, continued to such extent that it was thought advisable to close the bridge and take steps to stop further movements, with a view to ascertain if it is not possible to adjust the present interesting and unique structure.

36. *Miscellaneous.*—The principal works under this heading have been carried out during the year :—

Culvert, Peradeniya and Kadugannawa road.
 Retaining walls, Dolosbage road.
 Retaining walls, Ambanwella road.
 Retaining wall, Haragama and Kurundu-oya road.

Survey of Brookside to High Forest road.
 Survey of road connecting Railway Gorge road with Lorne extension.
 Survey of road from Junction of Kabaragala road to Maturata hospital.
 Getambe ferry boat

Public Works Extraordinary.

37. *New Works and Buildings.*—The following works have been completed :—

Cooly lines, 21st mile, Gampola and Pussellawa road, at a cost of 10 cents per cubic foot.
 Controller's bungalow, Experimental Gardens, Peradeniya.
 Lodge, Experimental Gardens, Nuwara Eliya, at 22 cents per cubic foot.

The following works were commenced :—

Cooly lines, Lindula and Agra road.
 Circuit Bungalow, Lindula-Nuwara Eliya road.
 Medical Aid Hospital, Dikoya.

38. *Alterations and Additions to Buildings.*—The following works have been completed :—

Police station, Nawalapitiya : four kitchens, two bathrooms, water service, &c.
 Police barracks, Matale : married quarters, with kitchen and latrines, single men's quarters, store, two kitchens, and a cell. Cost per cubic foot, 14½ cents.
 Hospital, Matale : an administration block, quarters for dispenser, nurses' quarters, and alteration to wards.
 Improvements to Fiscal's Office, Kandy.
 Electric light installation, Old Palace, Kandy.
 Converting Grand Hotel into Public Works Department Offices.
 Converting Grand Hotel into Public Offices.

The following works are in progress :—

Medical Aid Hospital, Uda Pussellawa.
 Adoption of Post Office, Kandy, as police barracks.

39. *Special Repairs to Buildings.*—The following works have been completed :—

Repairs to jail, Nuwara Eliya.
 Painting roofs, &c., Queen's Cottage, Nuwara Eliya.
 Repairs to Medical Officer's quarters, Glencairn, Dikoya.
 Painting Government buildings, Nuwara Eliya.

40. *New Roads.*—Ulapane and Riverside branch road is practically completed and will be available for cart traffic directly the bridge is opened.

41. *Additions and Improvements to Roads.*—The following works were completed :—

Improvements to Lindula and Nuwara Eliya road.
 Craigie Lea and Lindula road.
 Walaha branch road.
 Additional culverts, Peradeniya and Gampola road.
 Kadugannawa and Alagalla road.
 Aladeniya and Iriyagama road.

The following work is in progress :—

Lindula to end of Agra road.

42. *New Bridges.*—Ulapane bridge. The abutment and piers are in progress ; the ironwork is in hand at the Government Factory.

43. *Repairs of Bridges.*—The following repairs were completed :—

Hulu-ganga bridge : converting timber roadway into an iron and concrete roadway.
 Satinwood bridge, Peradeniya : a certain quantity of decayed timber was renewed.
 The works on Galaha bridge, 17th mile, Deltota road, were not undertaken during the year.

44. *Lands and Buildings to be acquired.*—Sixteen quarries sites for lines were taken over during the year, and twenty-seven applications submitted for acquisition.

45. *Miscellaneous.*—The following works have been completed :—

Survey of proposed road from Matale *via* Udapelella, Kalalpitiya, and Ukuwela railway station.
 Converting six timber bridges into iron ones, Matale District.
 Dredger and Barge, Nuwara Eliya lake.

The following work was proceeded with :—

Water supply, Madulkele Post Office, hospital, &c. The iron pipes have been purchased and delivered.

NORTHERN PROVINCE.

Public Works Annually Recurrent.

46. *Maintenance of Roads.*—The Provincial Engineer reports that the roads are in order, but the repairs have been delayed, due to the shortage of labour.

47. *Maintenance of Inland Navigation.*—The channels have been maintained in working order, and the guide posts renewed as far as funds permit.

48. *Minor Flood Outlets.*—The Chundikulam bars were cut during the months of November and December.

49. *Repairs to Public Buildings.*—The public buildings have been repaired so far as funds permit.

50. *Additions and Improvements to Buildings.*—The following works were carried out during the year :—

A verandah and surface drainage, light-keeper's quarters, Point Pedro.
 Two iron gates, H. M. Customs, Kankasanturai.
 A latrine, The Fort, Mannar.

51. *Repairs to Bridges.*—The bridges have been duly repaired during the year for the funds available.
52. *Miscellaneous.*—The following works were carried out during the year :—
Well, Iranamadu ; cement concrete platform and surface drainage ; culvert, 138th milepost, North-Central road.

Public Works Extraordinary.

53. *New Works and Buildings.*—The following works were completed :—
Cooly lines, five rooms, 123rd milepost, North-Central road, at a cost of 15 cents per cubic foot.
Cooly lines, three rooms, 9th milepost, Mannar and Pesalai road, at a cost of 17 cents per cubic foot.
Post Office and quarters, Mannar, at a cost of 21 cents per cubic foot.
Public Works Department Store, Mannar.
Dispensary, Chavakachcheri, is in progress.
54. *Alterations and Additions to Buildings.*—The new wards, Puloli hospital, are in progress.
55. *Special Repairs to Buildings.*—The following special repairs have been completed :—
Grain shed, H. M. Customs, Kankesanturai.
Jetty, Kankesanturai.
56. *New Roads.*—The following roads are in progress. The shortage of labour throughout the Province is the chief reason for the delay in completion of these works :—
Mannar-Talaimannar road.
Parantan-Mullaittivu road.
Coast road, northern portion, to Puneryn.
Coast road (Mantai-Illupaikadavai road deviation).
57. *Additions and Improvements to Roads.*—The improvements to the following roads are in progress, which have been all delayed, due to the want of labour throughout the Province. There are three Public Departments in this Province, viz., Railway Extension, Irrigation, and this Department, engaged on public works, and the supply of labour is not equal to the demand :—
Mannar to Pesalai.
Mullaittivu new trace.
Pesalai-Yakwewa road.
Vavuniya-Parayanalankulam road.
58. *Repairs of Bridges.*—The work in filling up the waterways of the Elephant Pass bridge with dry stone rubble packing is in hand.
59. *Miscellaneous.*—The following works were completed :—
Mannar causeway : construction of a siding.
Repairs to the following Forts : Jaffna, Mannar, and Puneryn.
- The following works are in progress :—
Well, Puthukkudiyiruppu.
Beacon, Mullaittivu.
Water supply, Jaffna.
- Mr. R. W. Smith has been seconded to examine, report, and estimate for various water supplies in the Island. He has been engaged during the year in Jaffna. The surveys and levels are completed, the site selected for sinking shafts to test the supply of water has been fixed at Tirunelveli, about 3 miles from Jaffna. Pumping operations have been carried out, but unfortunately the heavy rain impeded progress. The plans and estimates are now being drawn up, and it is proposed to carry out further tests directly the next dry season sets in.

SOUTHERN PROVINCE.

Public Works Annually Recurrent.

60. *Maintenance of Roads.*—The roads are in fair working order throughout the Province, save the Akuressa and Viharahena road, the Deniyaya-Hayes branch road, Hakmana and Beliatta road, and Wirawila to Kirinda *via* Tissamaharama road. These roads cannot be considered in order; steps have, however, been taken to rectify matters.
61. *Repairs to Buildings.*—The repairs so far as funds permit have been carried out during the year, but I consider the public buildings of this Province require further attention in the shape of ordinary repairs.
62. *Additions and Improvements to Buildings.*—The principal works carried out during the year were :—
Latrine, jail, Tangalla.
Boundary wall in line Railway Kachcheri, Galle.
Improvements, recordroom, Police Court, Galle.
Alterations to latrines, police barracks, Pettah, Galle.
Improvements to the Victoria Jubilee Hospital, Balapitiya.
Improvements to the Government Civil Hospital, Hambantota.
- The following work is in progress :—
Alterations to Civil Hospital, Galle.
63. *Repairs of Bridges.*—The annual repairs to bridges have been carried out. The Ambalantota bridge and Magum-oya bridge required additional votes to adjust the bridges, due to the indifferent condition of the timber.

64. *Miscellaneous.*—The following works were completed :—

Sinking wells, Hambantota District.
 Improvements to wells, Tangalla.
 Improvements to jail hospital, Matara.
 Removing and re-fixing crane, H. M. Customs, Galle.

*Public Works Extraordinary.*65. *New Works and Buildings.*—The following works were completed :—

Dispensary, Ambalantota.
 Post Office, Deniyaya.

66. *Alterations and Additions to Buildings.*—The alterations to the Hospital, Galle, have been carried out, and the improvements to the Hospital, Tangalla, are in progress.

67. *Special Repairs to Buildings.*—The following works have been completed :—

Repairs to District Judge's quarters, Galle.
 Repairs to Police Magistrate's bungalow, Balapitiya.

68. *Additions and Improvements to Roads.*—The following works were completed :—

Improvement, Hambantota and Bundala road.
 Improvement, Matara and Akuressa road.
 Improvement, Deniyaya and Hayes branch road.
 Additional culverts, Hakmana, Tangalla, and Dikwella and Beliatta road.

69. *New Bridges.*—The following bridges have been completed during the year :—

Mahamodara bridge.
 Gintota bridge.
 Polwattamodara bridge.

70. *Repairs of Bridges.*—The following bridges have been repaired during the year :—

Rebuilding bridge, 124th mile, Tangalla and Hambantota road.
 Adjusting bridge, Ambalantota and Magum-oya road.

The re-planking of the Matara bridge is in progress.

71. *Miscellaneous.*—The following works were completed :—

Protecting the road, 86th mile, Bentota-Goiyapana road.
 Converting four timber bridges into iron ones, Galle and Akuressa road.

The following work is in progress :—

Repairs to Galle rampart wall.

72. *Plague Precautions.*—The following works have been carried out during the year : constructing a native hut ; repairs to temporary sheds and to the building Bathfield House and sundry repairs at the plague camp.

EASTERN PROVINCE.

Public Works Annually Recurrent.

73. *Maintenance of Roads.*—The roads are in order, with the exception of the following roads :—Badulla and Batticaloa road ; the surface is not in thorough working order, due to the shortage of labour and indifferent quality of stone available for the repairs to the surface ; a special vote has been granted for this road, which, it is hoped, will improve its condition. 33rd mile, Karativu and Sammanturai-Irakamam road, which has been damaged by floods ; the survey of the road will be made to submit an estimate for the necessary repairs.

74. *General.*—Progress has been made in dredging the channels, Batticaloa lake (4,634 cubes dredged), Chettypalam beach, Customs, and Public Works Department yards channels. The repairs to the dredger were completed in February, 1903, and the dredger again docked in September last. The dry dock is in good order, and has been used by the Batticaloa Steamboat Syndicate Boat Co. The Provincial Engineer reports that no complaints have been received in regard to the boats passing through the shallow channels.

75. *Repairs to Buildings.*—The public buildings have been repaired so far as funds permit ; there are, however, a large number of buildings in this Province that require the cadjan roofs—an endless source of expense in regard to re-cadjaning—to be converted into permanent roofs, thereby reducing the annual cost of repairs.

76. *Additions to Buildings.*—The following are the principal works that have been completed during the year :—

Improvements to H. M. Customs, Batticaloa.
 Improvement to Record Office, Kachcheri, Batticaloa.
 Calicut tile roof, salt store, Pottuvil.
 Fence round jail, Trincomalee.

77. *Repair of Bridges.*—The usual annual repairs to bridges so far as funds permit have been carried out during the year.

78. *Miscellaneous.*—The following works were carried out during the year :—

Ferry boat, Muttur ferry, Trincomalee.
 Boats for the ferries, Trincomalee.
 Well, 22½ mile, North Coast road.
 Survey of road Valaichchenai to Kalkuda.
 Survey of a canal to connect Natur and Batticaloa lakes.
 Enlarging a culvert, 90th mile, Maduru-oya and Eravur road.
 Survey of the Coast road, Muttur to Kiniyai, Trincomalee.
 Improvements to jetty, Kalkuda.

Public Works Extraordinary.

79. *New Works and Buildings.*—The following works have been completed :—
 Gooly lines consisting of six rooms, 17th mile, Trincomalee and Kituluttu road.
 Tramway jetty, Kalkuda.
 The new police station, Batticaloa, is in progress.
80. *Alterations and Additions to Buildings.*—The alteration to the dispensary, Muttur, has been completed.
81. *Special Repairs to Buildings.*—The following works have been finished :—
 Assistant Government Agent's Residence, Trincomalee.
 Repairs to the house occupied by the Rev. P. Marks.
82. *New Roads.*—The works in connection with the extension of the South Coast road to as far as 68½ milepost have been completed, and it is proposed to continue the extension towards the south. A good driving road is now open for wheel traffic from Batticaloa towards Hambantota for a distance of 68½ miles, and the opening up of this part of the country with a road to Hambantota should be steadily carried out in sections sufficient for a year's work from both ends.
83. *Additions and Improvements to Roads.*—The following works have been completed :—
 Causeway, 65th mile, South Coast road.
 Improvement, Trincomalee and Kituluttu road.
 Improvement, 85th mile, Badulla-Batticaloa road.
 The following works are in progress :—
 Ondachchimadam causeway.
 Coast road, Verugal to Kiliveddi.
84. *New Bridges.*—The Urani bridge and causeway have been completed, and satisfactory progress has been made with the erection of Kanganianodai bridge during the year.
85. *Repairs of Bridges.*—The bridge, 68½ milepost, Maduru-oya and Eravur road, has been rebuilt.
86. *Miscellaneous.*—The following works have been completed :—
 Converting timber platform bridges, Maduruoya-Eravur road.
 Converting timber platform bridges into iron ones, Kalmunai-Akkaraipattu road.
 Galas, Badulla and Batticaloa road.
 Marking channels, Batticaloa lake.
 Sinking wells, South Coast road.

NORTH-WESTERN PROVINCE.

Public Works Annually Recurrent.

87. *Maintenance of Roads.*—Many of the roads in this Province cannot be considered in proper working order; it is true that the floods of 1902 wrecked the surface of some of the roads. I understand from the Provincial Engineer, North-Western Province, that the condition of certain roads has improved; steps have, however, been taken to adjust the roads with the funds and labour available. In this Province there has been a considerable shortage of labour for public works, which, together with the flood damages, is in a great measure the cause of the present state of the roads.
88. *Maintenance of Inland Navigation.*—The canals have been maintained so far as funds permit.
89. *Repairs to Buildings.*—The repairs to the several buildings have been attended to so far as funds permit.
90. *Additions to Buildings.*—The following works have been completed :—
 Improvements to Kachcheri, Puttalam.
 Additions, District Court, Chilaw.
 Witness-shed, Police Court, Chilaw.
 Wooden ceilings, District Judge's quarters, Kurunegala.
 Improvements, Post Office, Nikaweratiya.
 Improvements to police barracks, Puttalam.
 The following work is in hand :—
 Converting jail hospital, Kurunegala, into a block of seven cells.
91. *Repairs to Bridges.*—The bridges in the Province have received attention during the year. In the Chilaw District the timber supplies could not be obtained in time. It appears to be a difficult matter to obtain local timber in sufficient supplies for the use of this Department.
92. *Miscellaneous.*—The following works have been completed :—
 Improvement to Himaduwa quarry road.
 Certain repairs to Maligawa.
 Survey, Nedumkulam, Puttalam.
 Removing roots from walls, Fort Kalpitiya.
 Adjusting pump, Kurunegala.

Public Works Extraordinary.

93. *New Works and Buildings.*—The police lock-up, Marawila, has been completed.
94. *Alterations and Additions to Buildings.*—The following works have been completed :—
 Drainage, hospital, Kurunegala.
 Converting police station into post office, Marawila.
 Jetty, Etalai.

The following work is in progress :—

Three cells, jail, Puttalam.

95. *New Roads.*—The following works are in progress :—

Approach roads to kottus, Palavi.

Vilakatupotta to Ganawatta railway station and to Hiripitiya road, which is greatly delayed for want of labour.

Road from Nikaweratiya to Maho.

Road from Maho to Polpitigama.

96. *Additions and Improvements to Roads.*—The following works have been completed :—

Track metalling from Puttalam to Battulu-oya

Improvements to Adipola metal quarry road.

97. *Miscellaneous.*—The repair of flood damages in the North-Western Province has been completed; the expenditure (Rs. 10,000) was distributed between five roads.

The following works are in progress :—

Converting timber bridges into iron ones, Puttalam District; four out of five bridges have been converted during the year.

Surveying Toppu and Puttalam canals.

Rebuilding a silt trap, Horakelly, Puttalam, and Toppu canal.

NORTH-CENTRAL PROVINCE.

Public Works Annually Recurrent.

98. *Maintenance of Roads.*—The roads have been maintained in fair working order, but owing to the shortage of labour and failure of the rain during November and December the roads have not received attention.

99. *General.*—The maintenance of the Mirisawetiya and Abhayagiriya Dagobas have received attention so far as the funds available permit.

100. *Repairs to Buildings.*—The buildings have received attention in the shape of ordinary repairs, but the Provincial Engineer represents that owing to the shortage of labour he has found it difficult to execute works.

101. *Additions to Buildings.*—The following works have been completed :—

Additions to the District Court, Anuradhapura.

Additions to the Public Works Department store, Anuradhapura.

Servants' latrine, Provincial Engineer's quarters, Anuradhapura.

Drains, Civil Hospital, Anuradhapura.

Glass window, hospital, Mihintale.

Concrete drains, female ward, Anuradhapura.

The following work is in progress :—

Well, dispensary, Tamuttegama.

102. *Repairs of Bridges.*—The Provincial Engineer reports that the bridges are in order.

103. *Miscellaneous.*—The following works have been executed :—

Surface drainage well, native writer's quarters, Anuradhapura.

Door and iron bars to windows, District Court, Anuradhapura.

Preliminary operations, Thuparama Vihare and Polonnaruwa.

Public Works Extraordinary.

104. *New Works and Buildings.*—The following works have been completed :—

Dispenser's quarters, Anuradhapura.

Cooly lines, Horowapotana.

The following works are in progress :—

Workshops, Public Works Department yard, Anuradhapura.

Medical Officer's quarters, Anuradhapura.

105. *Alterations and Additions to Buildings.*—The shelves for record-room, Kachcheri, Anuradhapura, are in progress.

106. *Special Repairs to Buildings.*—The painting of the ceiling of ground floor, Kachcheri, Anuradhapura, has been done, and the special repairs to the jail, Anuradhapura, are in progress.

107. *New Roads.*—Approach road to railway station, Anuradhapura. Progress has been very backward throughout the year, due to the shortage of labour. The Provincial Engineer represents that he is unable to hire labour to execute these works.

108. *Additions and Improvements to Roads.*—The improvements to the Anuradhapura-Puttalam road are finished.

The following works are in progress :—

Maradankadawela and Habarana road.

Improvement of Anuradhapura and Kurunegala road.

Mannar and Madawachchiya road.

Kekirawa and Talawe road.

The Provincial Engineer reports that the slow progress is simply due to shortage of labour in his Province.

109. *New Bridges.*—The small bridge, 52nd mile, Yakawewa road, has been completed.

110. *Miscellaneous.*—The drains, Rambawe bazaars, have been finished.

PROVINCE OF UVA.

Public Works Annually Recurrent.

111. *Maintenance of Roads.*—The roads are in fair working order, except the Wellawaya and Tanamalwila road, which is not in proper working order.

112. *Repairs to Buildings.*—The public buildings have been repaired during the course of the year for the funds available for this service.

113. *Alterations and Additions to Buildings.*—The following works have been completed :—

Additions to District Engineer's quarters, Koslanda.
Improvement to Post Office, Lunugala.
Consulting room for proctor, District Court, Badulla.
Improvement to District Engineer's quarters, Passara.
Alterations to jail, Badulla.
Additions and improvements, The Residency, Badulla.

114. *Repairs of Bridges.*—The Provincial Engineer reports that the bridges have been maintained during the year.

115. *Miscellaneous.*—The following works were completed :—

Enlarging a culvert, 121st mile, Haldummulla and Wellawaya road.
Tracing a proposed road from Batticaloa to Okkampitiya.

Public Works Extraordinary.

116. *New Works and Buildings.*—Cooly lines and overseer's quarters, Ohiya, are in progress.

117. *New Roads.*—The following works were executed during the year :—

Bibile and Medagama road.
Badulla-Spring Valley bridle path.

The following work is in progress on contract :—

Haputale and Dambatenna branch road.

118. *Additions and Improvements to Roads.*—The following improvements to roads have been completed :—

Badulla and Bandarawela road.
Dikwella and Madulla road.
Muppane and Pottuvil road.
Passara and Madulsima road.

The improvements to the Wellawaya and Tanamalwila road is in progress.

119. *Miscellaneous.*—The following work has been finished :—

Converting timber bridges into iron ones.

120. *Prisoners of War Camp, Diyatalawa.*—The cart road from Roehampton estate to the camp has been taken over, and the necessary maintenance works have been attended to throughout the year.

PROVINCE OF SABARAGAMUWA.

Public Works Annually Recurrent.

121. *Maintenance of Roads.*—The roads have been maintained in fair working order throughout the year. The road from Avisawella to Ratnapura shows indications of wearing down the surface too rapidly, and it may be necessary to have to increase the maintenance funds for 1905. The road from Kegalla to Polgahawela requires extra metal, the surface is worn down; likewise the road from Karawanella to Glenalla. The Provincial Engineer explains that the traffic on the above roads has increased.

122. *Repairs to Buildings.*—The usual annual repairs to public buildings have been carried out so far as funds permit.

123. *Additions to Buildings.*—The following works have been carried out during the year :—

Wire fencing, hospital, Avisawella.
Cement rendering floors and drains, Residency, Kegalla.
Improvements to Government Agent's residence, Ratnapura.
Improvements to Land Registry, Ratnapura.
Shed for hearse, hospital, Ratnapura.
Concrete drains, hospital, Rakwana.
Shed for hearse, hospital, Karawanella.
Improvements to hospital, Ratnapura.

124. *Repairs of Bridges.*—The Provincial Engineer reports that the bridges have been duly repaired so far as funds permit, and he has re-planked Getahetta and Bibile-oya bridges, Avisawella district.

125. *Miscellaneous.*—The following works have been executed :—

Retaining walls, Avisawella and Ginigathena road.
Reconstructing abutment bridge, 1st mile, Rambukkana and Dolosbage road.
Flood damages, Kegalla and Polgahawela road.
Repairing a bridge, Morawaka and Rakwana road.
Rebuilding top of abutment, Sitawaka bridge, Avisawella.

Public Works Extraordinary.

126. *New Works and Buildings.*—The following works have been completed :—
 Overseer's quarters, 28th mile, Pelmadulla and Gilgarron road.
 Post and Telegraph Office, Rakwana, rate per cubic foot 20 cents, consisting of one office, three living-rooms, kitchen, and servant's room for postmaster; and 1 living-room, store, and kitchen for Assistant.
 Temporary ward, hospital, Rakwana.
127. *Alterations and Additions to Buildings.*—The witness-shed and record-room, Police Court, Avisawella, have been completed at the rate of 12 cents per cubic foot.
128. *New Roads.*—The following works are in progress :—
 Madampe-Hambantota road extension : five miles of road have been made, leaving 4 miles to connect up with the Liyangahatota road.
 Madampe road deviation : 2.75 miles have been finished, and the remaining portion of the road is now in hand.
 Balangoda-Chetnole branch road : 2½ miles have been finished, and will soon be completed and available for traffic.
 Polatagama-Ardross road : 3 miles of road ready for cart traffic; the Ritigaha-oya causeway is finished, and the We-oya is in progress; further funds will be required for the completion of this work.
 Ellearawa-Pinnewella road : the final amount, Rs. 1,000, was paid by order of the Colonial Secretary.
129. *Additions and Improvements to Roads.*—The following works have been completed :—
 Improvement to Rakwana-Bulutota road.
 Extra works, Algoda causeway.
 Algoda causeway compensation.
130. *Repair of Bridges.*—Three bridges in the Avisawella district were completed during the year, viz., Getahetta, Bibile-oya, and We-oya bridges.
131. *Miscellaneous.*—The following works were completed :—
 Deviating a stream, Pelmadulla and Gilgarron road.
 Converting seven timber bridges into iron bridges : one Veyangoda road; three Karawanella-Glenalla road; one Ginigathena road; one Avisawella and Pussellawa road; and one 5th mile, Rambukkana and Dolosbage road.
 Drains for Dehiowita bazaar : 3,106 lineal feet side drains constructed.
 The following works are in progress :—
 Replacing timber bridges by iron ones, Pelmadulla-Gilgarron road.
 Rambukkana water supply : pipes have been ordered for this work.
 Protection works, Ritigaha-oya bridge.

WORKS CHARGEABLE TO LOANS AND OTHER FUNDS.

132. *Duplication of Main, Colombo Waterworks.*—Satisfactory progress has been made, and will be fully completed during 1904.
133. *Service Reservoir, Elie House.*—The preliminary works are in rapid progress, and all necessary materials are being collected to construct the reservoir during 1904.
134. *Camp for Prisoners of War, Diyatalawa (including) Urugasmanhandiya, Ragama, and Mount Lavinia.*—The works as required from time to time have been carried out.
135. *Steam Tugs "Samson" and "Goliath."*—Extensive alterations and repairs to the tugs have been carried out.
136. *Victoria Memorial Eye Institution, Colombo.*—The foundations have been laid, and the superstructure is now in hand.
137. *H. M. Customs, Colombo.*—The quay wall, jetties, electric cranes, fencing, widening Seashore street, and extension of warehouses have made satisfactory progress.
138. *Minor Courts, Hulftsdorp.*—The courts have been completed.
139. *Fiscal's Offices, Hulftsdorp.* have been completed.

GOVERNMENT FACTORY.

140. The report of the Government Factory Engineer is annexed. Satisfactory progress has been made in the following works :—

- (1) The miscellaneous works in progress, H. M. Customs, Colombo.
- (2) The completion of the Minor Courts, Hulftsdorp.
- (3) The completion of the Fiscal's Offices, Hulftsdorp.
- (4) The completion of the three bridges, Mahamodara, Gintota, and Polwattamodara, Southern Province.
- (5) The Technical College.
- (6) The improvements to the Supreme Court.
- (7) The administration block, General Civil Hospital.
- (8) The Victoria Memorial Eye Institution, Colombo.
- (9) Completion of widening Seashore street, Colombo.
- (10) Construction of jetty, Hambantota.

In Appendix 5 will be found full particulars of the iron bridges constructed at the Factory during the year, and in Appendix 6 details of Factory expenditure.

COLOMBO WATERWORKS.

141. *Labugama Waterworks.*—The rainfall registered at Labugama during the year amounted to 184.27 inches, rain falling on 190 days. The maximum rainfall during twenty-four hours occurred on 3rd June, when 9.37 inches were registered. The water in the reservoir was 4 ft. 2 in. below overflow level on the 3rd; the sluices were opened, discharging 12,000,000 gallons of water per hour, and water rose in the reservoir, attaining a maximum height of 2 ft. 10 in. above overflow level. The maximum depth from which water was drawn from the reservoir was 24 ft. below overflow level. The head of water was reduced to permit work in connection with the duplication of the main being carried out. The lowest water level reached was 10 ft. 3 in. on 24th January, 1903. The reservoir and connected works have been maintained in satisfactory order.

142. *Main Pipe Line.*—The pipe line has been maintained in working order; a constant flow obtained throughout the year, save on the 23rd November last, when for 6½ hours the connection with the duplication was made.

143. *Maligakanda Service Reservoir.*—This reservoir has been maintained throughout the year in working order without any exceptional expenditure.

144. *Distribution Works.*—The distribution works have been maintained in good order throughout the year. During the year 729 yards 3-in. main were laid, five new standposts erected, and one removed. There are now 700 street fountains fixed in various parts of Colombo. Eighty-two new services for domestic supply were constructed, making a total number of 3,264. Forty-six water meters were fixed to for services other than domestic purposes, 24 were removed, making a total of 241 in use.

145. *Consumption of Water.*—In Appendix 9 will be found a tabular statement of the consumption of water during each month of the year. In Appendix 10 will be found a monthly return of water supplied by meter to each ward during the year. The maximum daily consumption from January to November, 1903, per mensem exceeded the maximum discharging capacity of the main, viz., 2,350,000 gallons per diem, resulting in shutting off the water from 6 P.M. to 5 A.M. In December an additional supply of 1,000,000 gallons per diem has been obtained by connection of the additional 9 miles of duplicated main. The water is not shut off at night; special attention is, however, drawn to increased consumption. The average consumption of water per head per diem, assuming the population of Colombo at 155,000, was for all purposes at the rate of 15.5 gallons. Deducting the metered supplies reduces the rate to 12 gallons per head.

146. *Quality of Water.*—The results of the monthly analyses will be found in Appendix 11.

147. A tabular statement indicating the consumption of water during the last eight years may be of interest:—

Year.	Water supplied by Meter. Gallons.	Total Consumption. Gallons.	Maximum Daily Consumption. Gallons.
1896	38,097,840	762,435,360	2,555,508
1897	51,353,450	780,584,671	2,502,300
1898	82,941,553	805,341,489	2,646,241
1899	105,569,529	877,980,521	2,869,581
1900	129,933,208	981,841,489	3,997,067
1901	162,997,699	1,011,958,277	3,149,578
1902	205,061,720	914,457,500	3,342,228
1903	198,931,860	881,171,425	3,527,608

148. The intermittent system of supply is a thing of the past; water is now available throughout the twenty-four hours, due to the fact that the duplication of the pipe is practically completed. When the Elie reservoir is completed the town of Colombo should have an ample and constant water supply for many years to come.

149. *Duplication of Main from Labugama to Colombo.*—The laying of the main has been satisfactorily executed under the supervision of Mr. H. T. Creasy. The iron pipes were received in two lots, and the breakages of the iron pipes in transit were excessive. Pipe laying was commenced in January, and completed as far as possible by the end of the year. The gauge basin at Labugama for the measurement of the water has been completed. There remains to complete this work the insertion of the hatch-boxes, easing the sharp bends, and the completion of the intermediate connection between the old and new mains. A sum of Rs. 1,166,615.63 has been expended according to the following details:—

	Rs.	c.
Cost of pipes, valves, and special castings	909,475	70
Materials and plant from Government Stores and Government Factory	61,154	34
Stream crossings, chambers, &c.	67,791	75
Transport of pipes, &c.	47,363	49
Laying and jointing	37,617	52
Trench excavation and filling	22,225	35
Supervision, overseerage, &c.	20,987	48
	1,166,615	63

150. *Elie Reservoir.*—The Elie House and premises were handed over to the Department in January, 1903. The buildings were demolished in March, 1903: 10,500 cubes were excavated, out of which 2,500 cubes were removed by carts, 500 cubes gravel removed by the Municipality, and 283,685 cabooks were cut and removed by local contractors. 2,500 cubes metal for concrete delivered in site, 800 cubes sand delivered, and 44,500 cement concrete blocks were made. Indent for ironwork, cement, and other materials were sent to the Crown Agents for early attention in July last, and are now being delivered. Rs. 79,426.99 has been expended up to date on this reservoir, as follows:—

	Rs.	c.
Excavation, &c.	14,578	7
Cement, metal, and sand at site	47,820	97
Materials and plant from Government Stores and Government Factory	9,477	89
Pulling down existing buildings, erecting temporary stores, overseerage, &c.	7,550	6
Total	79,426	99

Mr. H. T. Creasy deserves a special word of praise for the thorough and excellent work he has done during the year.

STAFF.

151. The Hon. Mr. F. A. Cooper, Director of Public Works, left on nine months' furlough in March last, and was succeeded in the acting appointment of Director of Public Works by Mr. L. Creasy. Mr. E. W. Johnson, Assistant Director of Public Works, retired on the 28th February last, after twenty-five years' service, and Mr. C. A. Lovegrove was confirmed in the appointment of Assistant Director of Public Works.

Mr. A. F. Churchill, District Engineer, was seconded for service under the Resident Engineer, Colombo Drainage Works, in March last.

Mr. C. O. Weinman, Clerk, Head Office, was transferred to Matale *vice* Mr. D. C. Dewendra, retired, Mr. J. H. Samaranyake succeeding Mr. Weinman at the Head Office. Mr. S. Sinnaturai was transferred to Pussellawa, and was succeeded by Mr. S. Swaminather, District Engineer's Clerk, Pussellawa. Mr. G. E. Muttukistna, Clerk, Head Office, was transferred to Puttalam Kachcheri, and his post was filled by Mr. M. T. Perera, a passed candidate. Mr. S. D. S. Muttukumarana, Clerk, Nuwara Eliya Kachcheri, assumed duties at Headquarters *vice* the late Mr. D. V. Abraham. An exchange of duties was effected between Messrs. R. D. Jayasinha and A. P. Beebee of Badulla Kachcheri. Mr. J. H. Samaranyake was transferred to the District Engineer's Office, Kegalla, his post at the Head Office being filled by Mr. W. A. M. K. Banda. Mr. P. R. Pullenayagam, Clerk, District Engineer's Office, Kandy, was seconded for service in the Northern Railway Extension Department, the last vacancy in the grade being filled by Mr. Zain Amith.

152. The following officers were on leave during the year :—

Name.	Commencement of Leave.	Period.	Returned to Duty.
Mr. H. A. G. Grant	... May 1, 1902	... 9 months and 15 days	... February 16, 1903
Mr. F. W. Johnson	... May 5, 1902	... 9 months and 24 days	... Retired
Mr. A. C. Smith	... December 23, 1902	... 8 months and 27 days	... September 19, 1903
Hon. Mr. F. A. Cooper	... March 15, 1903	... 9 months and 17 days	... Absent
Mr. J. Jeffery	... March 17, 1903	... 9 months and 15 days	... Absent
Mr. W. B. W. Morgan	... May 1, 1903	... 8 months	... Absent
Mr. H. E. H. Hayes	... November 1, 1903	... 2 months	... Retired
Mr. A. H. Nathanielsz	... January 8, 1901	... 2 years 11 months 24 days	... Absent

The following officers were on sick leave :—

Name.	Commencement of Leave.	Period.	Returned to Duty.
Mr. E. S. de Silva	... August 19, 1903	... 4 months and 13 days	... Absent
„ F. Ludovici	... July 29, 1903	... 5 months and 3 days	... Absent

153. The following officers were appointed as District Engineers :—Mr. D. K. McMinn in February, and Mr. F. W. Sproule in March last.

The following students of the Technical College were appointed as Head Overseers :—

Mr. A. E. Wijesinha in February.	Mr. W. M. Underwood in May.
„ T. Muttucumaroe in February	„ W. G. McCarthy do.
„ W. I. de Silva in September.	

154. The changes that have taken place during the year in the provincial offices are as follows :

Western Province.—Mr. E. G. Eves, District Engineer, Colombo, being relieved by Mr. O. de Kretser, proceeded to Badulla. Mr. C. Ponniah, Clerk to District Engineer, Kalutara, was transferred to Dikoya, being succeeded by Mr. A. Tampoe, Clerk to the District Engineer at the latter station. Mr. S. Chelliah, Clerk to District Engineer in Charge of Buildings, was dismissed the Service, his post being filled by Mr. A. M. Kandasamy, District Engineer's Clerk, Katugastota. Mr. Paul Francis, Third Clerk, Provincial Engineer's Office, was appointed Registrar, District Court, Mullaitivu, and was succeeded by Mr. V. J. Tamby, a passed candidate. Mr. H. V. Wallbeoff, Inspector, Western Province, was ordered to Kegalla in July last to relieve Mr. F. Ludovici, District Engineer, and Mr. C. H. E. Muttukistna, Head Overseer, Central Province, assumed duties under District Engineer in Charge of Buildings, Colombo.

155. *Central Province.*—Mr. L. Creasy, being relieved by Mr. H. F. Tomalin, assumed duties as Acting Director of Public Works in March last. Mr. W. C. Price, District Engineer, Kandy, took over charge of the North-Western Province in November last, being succeeded by Mr. T. H. Chapman. Mr. A. Rothwell, District Engineer on Ulapane Bridge Works, being succeeded by Mr. A. C. B. Jonklaas, proceeded to Anuradhapura. Mr. C. H. E. Muttukistna, Head Overseer, was transferred to the Western Province, and Mr. G. E. Loos, Head Overseer, Kandy, proceeded to Dikoya for duty under the District Engineer. Mr. J. B. Jayasekera, Clerk to District Engineer, Kegalla, took up duties at Nuwara Eliya, and Mr. Thamotherampillai, the Clerk at that station, relieved Mr. A. M. Kandasamy, District Engineer's Clerk, Katugastota, the latter proceeding to Colombo to take up duties as Clerk to District Engineer in Charge of Buildings. Mr. B. T. Aiyathurai, District Engineer's Clerk, Dandugama, took the place of Mr. Pullenayagam, District Engineer's Clerk, Kandy, seconded for service in the Northern Railway Extension Department; and Mr. N. M. Rasaratnam, Clerk, Provincial Engineer's Office, Kandy, proceeded to Dandugama. Mr. W. A. de Silva, Clerk to District Engineer, Matale, was transferred to Jaffna, Mr. D. C. Dewendra from Galle relieving him. Mr. Dewendra, retiring in October, was succeeded by Mr. C. O. Weinman from the Head Office. Mr. S. Swaminather, District Engineer's Clerk, Pussellawa, was transferred to Headquarters, and Mr. S. Sinnaturai from the Head Office succeeded him.

156. *Northern Province.*—Mr. H. Bucknall took over charge of Jaffna District from Mr. O. de Kretser in February last, the latter proceeding to Colombo. Mr. J. V. Weerasinghe proceeded to Mannar in November last and relieved Mr. J. Oorloff, who then took up duties as District Engineer,

Puttalam. Mr. E. S. de Silva, proceeded on leave in August last, and was relieved at Vavuniya by Mr. D. S. Muttiah, Inspector. In September Mr. W. Black relieved Mr. Muttiah, the latter proceeding to Mullaitivu. Mr. A. Krishnar, Head Clerk, Provincial Engineer's Office, Jaffna, was transferred to Kurunegala, Mr. A. Kathiravalupillai from Batticaloa succeeding him. Mr. T. Sivacolunthu, District Engineer's Clerk, Pallai, was transferred to Maradankadawela, and was succeeded by Mr. C. Tambiah, District Engineer's Clerk of that station. Mr. S. Eliyathamby, District Engineer's Clerk, Jaffna, was transferred to Provincial Engineer's Office, Galle, and was succeeded by Mr. W. A. de Silva, District Engineer's Clerk, Matale.

157. *Southern Province.*—Mr. H. A. G. Grant returned from leave in February last and assumed duties at Galle, relieving Mr. F. J. Pigott, the Acting Provincial Engineer, who proceeded to Batticaloa. Mr. C. F. Emerson assumed duties as District Engineer, Hambantota, in January last, relieving Mr. Bucknall, who proceeded to Jaffna. In April last Mr. W. J. Thornhill relieved Mr. A. E. Caldicott, District Engineer, Matara, who proceeded to Chilaw. Mr. J. Jeffery, District Engineer, Galle, proceeded on leave in March last, and was relieved by Mr. E. H. Vanderstraaten from Headquarters. Mr. B. F. de Silva, Head Overseer, Deniyaya, took up duties under District Engineer, Galle, in September last, and was transferred to Trincomalee in the following month. Mr. H. V. Wallbeoff, Inspector, was transferred to Deniyaya for work under the District Engineer, Matara, in October last. Mr. D. C. Dewendra, Clerk, Provincial Engineer's Office, Galle, was transferred to Matale, and was succeeded by Mr. S. Eliyathamby, District Engineer's Clerk, Jaffna. Mr. M. Ediriwira, Clerk to District Engineer, Matara, having been appointed Clerk, Fiscal's Office, Matara, was succeeded by Mr. J. P. Cherubim from the Provincial Engineer's Office, Ratnapura. Mr. D. E. Perera, Clerk to District Engineer, Hambantota, was transferred to Koslanda, and was succeeded by Mr. S. W. V. Arumogam from Koslanda.

158. *Eastern Province.*—Mr. H. F. Tomalin, on being relieved by Mr. F. J. Pigott, took over charge of Central Province in March last. Mr. W. R. W. Morgan, District Engineer, Trincomalee, left on nine months' furlough in May last, and was succeeded by Mr. W. B. Gregson from Mihintale. Mr. H. E. E. Koch, Head Overseer in Province of Sabaragamuwa, was transferred to Batticaloa in April last, and Head Overseer Mr. B. F. de Silva took up work under District Engineer, Trincomalee, in October last. Mr. B. R. J. Ondaatjie, Head Overseer, assumed duties under District Engineer, Trincomalee, in August last, and was dismissed the Service in the following month. Mr. A. Cathiravalupillai, Head Clerk, Provincial Engineer's Office, was transferred to Jaffna, Mr. A. Sanmugam from Kurunegala succeeding him.

159. *North-Western Province.*—Mr. H. E. H. Hayes proceeded on two months' leave preparatory to retirement, relieved by Mr. W. C. Price in November last. Mr. A. F. Churchill having been seconded for service under the Resident Engineer, Colombo Drainage Works, was succeeded by Mr. D. K. McMinn. Mr. F. W. Sproule, District Engineer attached to Headquarters, was placed in charge of railway feeder roads in May last. Head Overseer Mr. B. R. J. Ondaatjie was transferred to the Eastern Province in August last. Mr. A. E. Caldicott took over charge of Chilaw District in April last from Mr. W. J. Thornhill, who proceeded to Matara. Mr. A. Clementi Smith, returning from leave in September last, assumed duties as District Engineer, Puttalam, relieving Mr. C. H. de Silva. Mr. Silva relieved Mr. A. E. Caldicott at Chilaw, the latter proceeding to Kegalla. Mr. J. R. Thuraisingham took over charge of Dandugama district from Mr. J. V. Weerasinghe in November last, the latter proceeding to Mannar. Mr. J. Oorloff relieved Mr. A. Clementi Smith at Puttalam in December, who proceeded to the Head Office. Mr. A. Sanmugam, Head Clerk, Provincial Engineer's Office, was transferred to Batticaloa, and was succeeded by Mr. A. Krishnar from Jaffna. Mr. B. T. Aiyathurai, District Engineer's Clerk, Dandugama, was transferred to Kandy, Mr. N. M. Rasaratnam, Clerk, Provincial Engineer's Office, Kandy, succeeding him. Mr. S. T. Savundaranayagampillai, District Engineer's Clerk, Kurunegala, was transferred to Badulla, and was succeeded by Mr. R. Raju, Clerk, Provincial Engineer's Office, Badulla.

160. *North-Central Province.*—Mr. R. G. Carte proceeding from Headquarters to Anuradhapura took over charge of the district in January from Mr. J. G. Driberg. Mr. A. C. B. Jonklaas relieved Mr. W. B. Gregson at Mihintale in March last, the latter proceeding to Trincomalee. Mr. A. Rothwell relieved Mr. R. G. Carte in November last, who proceeded to Koslanda. Mr. A. C. B. Jonklaas took over charge of Ulapane bridge works, and was succeeded by Mr. J. A. Moraes. Mr. L. P. Stork, Inspector, Ragama, was transferred to North-Central Province for work on the railway feeder roads in October last. Mr. C. Tambiah, District Engineer's Clerk, Maradankadawela, was transferred to Pallai, and Mr. T. Sivacolunthu of that station succeeded him.

161. *Province of Uva.*—Mr. E. G. Eves, District Engineer, Colombo, took over charge of Badulla District in February from Mr. J. A. Moraes, who was placed in charge of Obekota-Medagama road. Mr. T. H. Chapman, District Engineer, Koslanda, took over charge of Kandy District in November last, and was succeeded by Mr. R. G. Carte. Mr. J. A. Moraes assumed duties as District Engineer, Mihintale, in November, relieving Mr. Jonklaas, who proceeded to Ulapane. On return from leave in July last Mr. W. Black was placed in charge of Haputale-Dambatenna road, and in September, being relieved by Mr. J. R. Thuraisingham, proceeded to Vavuniya. In November Mr. Thuraisingham proceeded to Dandugama as District Engineer, and relieved Mr. J. V. Weerasinghe. Mr. S. W. V. Arumogam, District Engineer's Clerk, Koslanda, was transferred to Hambantota, and Mr. D. E. Perera of that station succeeded him. Mr. R. Raju, Second Clerk, Provincial Engineer's Office, was transferred to Kurunegala, and was succeeded by Mr. S. T. Savundaranayagampillai from Kurunegala. Mr. V. E. Parys, Head Clerk, Provincial Engineer's Office, left the Department in May last, and was succeeded by Mr. T. Ponnambalam of the Medical Department.

162. *Province of Sabaragamuwa.*—Mr. F. Ludovici proceeded on sick leave in July last relieved by Mr. H. V. Wallbeoff, Inspector. Mr. A. E. Caldicott took over charge of Kegalla District from Mr. Wallbeoff in September last, the latter proceeding to the Head Office. Mr. J. R. Thuraisingham, proceeding from Headquarters, relieved Mr. H. E. E. Koch, Head Overseer in charge of Ritigaha-oya works, in April last, Mr. Koch proceeding to Batticaloa. Mr. Thuraisingham was detailed in July last to prepare plans and estimates for Rambukkana water supply, on the completion of which he was placed in charge of Haputale-Dambatenna road. Mr. J. B. Jayasekera, District Engineer's Clerk, Kegalla, was transferred to Nuwara Eliya, Mr. J. H. Samaranayake from Head Office taking his place. Mr. J. P. Cherubim, Second Clerk, Provincial Engineer's Office, was transferred to Matara, and was succeeded by Mr. K. Muttu, a passed candidate.

163. The following tabular statement indicates the expenditure on Annually Recurrent Works, Public Works Extraordinary, and those chargeable to loans and other funds during the years 1895 to 1903 inclusive :—

Year.	Recurrent. Rs.	Extraordinary. Rs.	Miscellaneous, including Loans. Rs.	Total. Rs.
1895	1,756,001	1,286,889	—	3,042,890
1896	1,823,558	1,219,103	—	3,042,661
1897	1,726,669	1,838,650	—	3,565,319
1898	1,900,307	1,510,143	369,324	3,779,774
1899	2,040,684	1,707,119	1,250,125	4,997,928
1900	2,029,279	1,610,261	1,074,665	4,714,205
1901	2,112,905	1,348,032	666,028	4,126,965
1902	2,163,394	1,448,491	572,143	4,184,028
1903	2,240,086	1,339,699	1,275,968	4,855,753

164. In the drawing office at the Head Office during the year the following are the principal plans carried out :—

Detail drawings, Elie reservoir, Colombo.
Detail drawings, duplication of the main, Colombo Waterworks Extension.
Technical College, Colombo.
Administration block, General Hospital.
Supreme Court improvements.
Revised designs for Queen's statue, Colombo.
Victoria Memorial Eye Institution, Colombo.
Resthouse, Kurunegala.
Government Civil Hospital, Chilaw.
Government Civil Hospital, Tangalla.
Post Office, Jaffna.
Post Office, Kurunegala.
Police Station, Kollupitiya.
Guard-room, Queen's House, Colombo.

Public Works Department,
Colombo, February 18, 1904

LEONARD CREASY, M.I.C.E.,
Acting Director of Public Works.

REPORT OF THE GOVERNMENT FACTORY ENGINEER FOR 1903.

DURING the year 493 orders were received amounting to Rs. 686,891·70, making with Rs. 365,209·16 brought forward from 1902 a total of Rs. 1,052,100·86. To this amount must be added disbursements on account of transport fund, Rs. 5,309·76. The total amount, therefore, available for expenditure for 1903 was as follows :—

	Rs.	c.
Brought forward from 1902	365,209	16
Factory Orders, 1903	686,891	70
Transport Fund	5,309	76
Total	1,057,410	62

EXPENDITURE.

The expenditure has been distributed as follows :—

	Rs.	c.
Bridges	169,468	13
Buildings	279,510	92
Harbour Improvements	157,939	50
Miscellaneous, Departmental	76,067	37
Irrigation	1,483	67
Other Departments	46,066	33
Railway Castings	17,710	67
Waterworks	4,805	54
Electrical	32,124	16
Transport	5,309	76
Total	790,546	5

And has been paid as follows :—

	Rs.	c.
Daily Labour	168,499	39
Fuel	15,028	43
Government Stores	384,930	75
Piecework	144,734	52
Materials purchased	127,352	96
Carried forward	253,029	60
Unexpended Balances	11,096	36
Credited to Revenue	2,738	61
Total	1,057,410	62

BRIDGES.

During the year 117 iron bridges of different width and spans of roadway were made and sent to outstations, and the Ginteta bridge on the Galle road completed and opened for traffic. Expenditure Rs. 169,468-13.

Ginteta.—This bridge consists of four spans of 80 ft., three of which were made in 1902, and the whole four erected in 1903 on four concrete cylinder piers 6 ft. in diameter and two cast iron piers of the same diameter, using the abutments of the old bridge, which were strengthened and repaired. Great difficulty was met with in sinking the concrete piers, which were taken down to a firm foundation on rock—Galle end 12 ft. below bed of river, and Colombo end one cylinder pier 22 ft. 6 in., and the other 17 ft. The bridge was opened for traffic on the 17th October.

Polwattemodara.—This bridge on the Galle and Matara road, consisting of 7 spans, 34 ft. each, on H iron piers and concrete footings, was commenced on the 1st March, 1903, and opened for traffic on the 26th September, 1903.

Giriulla.—The strengthening of this bridge was completed in February.

BUILDINGS.

The expenditure under this head has been Rs. 279,510-92 on account of the Minor Courts, Fiscal's Office, Technical College, Administration Block of General Hospital, Supreme Court Buildings, and the usual supply of doors and windows for public buildings at outstations.

Minor Courts.—This building was occupied temporarily until 15th July, 1903, by the Deputy Fiscal as offices, after which the whole building was cleansed, re-coloured, and painted. Complete new teakwood furniture for the two Courts was supplied from the contingencies on this estimate. The remaining balance is now being absorbed in supplying gratings for the windows, stone seats for the witness-sheds, and the erection of a new suitors' shed, &c. The expenditure for the year amounted to Rs. 7,139-91.

Fiscal's Office.—These buildings, a description of which I gave in my last report, have been completed during the year, and were handed over to the Fiscal on 16th May, 1903, having previously been inspected by His Excellency Sir West Ridgeway. The expenditure on this work was Rs. 18,022-93.

Supreme Court, Jailer's Quarter's, Stables, Latrines, &c.—Estimated cost Rs. 88,161-53. This set of buildings, comprising a two-storied block for Jailer's and Assistant Jailer's quarters, with kitchens, &c., complete, three blocks of stables, and coach-house, and one large latrine, as well as a new boundary wall and guard-hut for the jail, together with the necessary roads, drains, &c. The foundations, walls, plastering, and roofs of the three sets of stables and coach-houses and latrine, as well as the foundations of the Jailer's and Assistant Jailer's quarters have been completed during this year, and this work is now well in hand. The expenditure on this work was Rs. 19,644-37.

Technical College.—Estimated cost of the first block Rs. 170,964-45. This building is being erected upon the high cabook bank in front of the Colombo Railway Terminus. It is designed in a free but simple treatment of Italian renaissance. In the centre of the front block a projecting bay is carried up and finished by a squat belvedere, which acts as a ventilator and forms a central feature. A roofed-in porch with an ornamental gable supported on cast iron columns is carried over the entrance, and shelters the broad flight of stone steps leading thereto. This central feature is flanked by two broad projecting bays on the ground floor carried up as open-columned verandahs on first floor, while each side of the front block has open verandahs on both floors.

The ground floor contains the following rooms:—Main porch, museum, 45 ft. by 25 ft.; two side rooms, 18 ft. by 25 ft. each, with three verandahs; chemical laboratory, 58 ft. 6 in. by 40 ft.; electrical laboratory, 38 ft. 6 in. by 40 ft.; engineering drawing room, 38 ft. 6 in. by 30 ft.; class room No. 1, 18 ft. 6 in. by 30 ft.; store and curator's rooms, lobby, &c.

The first floor comprises the following:—Large lecture hall, 59 ft. by 41 ft.; small lecture room, 39 ft. by 31 ft.; experimental laboratory, 39 ft. by 40 ft.; class room No. 2, 20 ft. by 30 ft.; Superintendent's office, 18 ft. 6 in. by 26 ft.; two Assistant Masters' room aggregating 18 ft. 6 in. by 31 ft.; as well as store rooms and laboratories.

As stated in my last report, that being unable to procure good facing bricks in the local market, and importation being prohibitive owing to cost and damage in transit, I have throughout this year manufactured 120,000 concrete bricks of red and white colour, including all the necessary moulded bricks for cornices, plinths, &c., for the exterior of the building. These bricks will now present a practically imperishable face, and the colours should remain permanent as the bricks are coloured throughout. I would mention that this method of facing buildings in concrete is of the latest American practice. The two western gables, from which the future extension of the College is to be made as well as the inside corridor and air passage, are all built with the facing bricks supplied by the Ceylon Brick and Tile Company, with my concrete bricks for the moulded portions. The expenditure on this work was Rs. 107,380-43.

General Hospital Administration Block.—The estimated expenditure Rs. 124,744-75. In design this building is a symmetrically-shaped square block relieved by pavilions at angles with a projecting verandah in the centre of the front, which is carried up through both floors to form a tower, and which is finished with a high steep roof, surmounted with a small fleche at the ridge as a ventilator. The building is economically planned, and the keynote is the ornamental octagonal central hall, from which access is directly obtained to all parts of the building. The elevations are designed in a free treatment of the renaissance style, but are simple and effective, and are faced with bands of red and cream-coloured plaster work. There is a wide handsome portico approached by a broad carriage drive.

The building comprises the following rooms:—Ground floor entrance verandah, hall, lobby, and corridors, outdoor patients' waiting-room, male and female dressing-rooms, each with a complete set of lavatories; medical officers' room, dispensary room for nurses on duty, eye examination room, surgeons' office, also rooms and lavatories for each of the female servants, students, and dressers on duty, coroners, medical officers, and surgeons' clerks.

First Floor.—Two large dining-rooms, two stores, twelve bedrooms, and four sets of lavatories with back staircases complete.

The shell of the building at the close of this year was well in hand, although instructions to proceed with the work were given to me on 6th May, 1903.

The progress of the work is as follows :—

Concrete foundations : completed on 30th June.
 Brick foundations : completed on 30th July.
 Brick wall and pillars : practically all completed.
 Plastering (external) : the two galls and main tower well in hand.
 Flooring : the wood joists all in position.
 Doors and windows : frames all in position.
 Roofing : principals and rafters erected and ready for reapers.
 The expenditure was Rs. 49,725.56.

Victoria Memorial Eye Hospital.—Expenditure Rs. 33,448.88. The design of this building is Hindo-Saracenic, the main administration block being faced with red- and cream-coloured concrete bricks. On the 17th June I received instructions to put in the foundations and commence work on this building. By the 6th September I had cleared the site and excavated the necessary trenches and laid the concrete and brick foundations, as well as caused 1,400 cubes of earth filling to the site, and on the 7th August Her Excellency Lady Ridgeway laid the foundation stone and work was suspended.

On 11th December I received definite instructions to proceed with administration block, female ward, and kitchen. The expenditure was Rs. 32,606.54.

Harbour Improvements.—The expenditure, Rs. 157,999.50, was for the following works :—

Quay wall.
 Master Attendant's jetty.
 Iron shed, 80 ft. by 100 ft.
 Extending B, C, and D warehouses.
 Sliding doors and paving archways, B, C, and D warehouses.
 Vault and road extension of Commissariat street.
 Widening Seashore street.
 Wood paving tea warehouse.
 Drainage, Kochchikade.
 Erecting electrical cranes.
 Hambantota jetty.
 Relaying floor of transhipment warehouse.
 Doors to I warehouse.
 Alterations and additions to the Harbour tugs "Samson" and "Goliath."
 Repairs to the pilots' launches.
 Repairs to the police launches.

Quay Wall.—171 ft. of this quay walling with its foundations 20 ft. deep have been completed during this year. The two rows of 5 ft. concrete cylinders for 70 ft. more of walling are sunk ready for the wall to be laid upon it. There are 30 ft., however, of concrete cylinders still to be sunk in order to complete the whole of this wall, but this I anticipate completing early in March, 1904. I would mention that I have experienced very great difficulty in sinking the concrete blocks for the last 100 ft. of this north wall, owing to my having reached the toe of the stone berm that was laid for the erection of the quay wall and South-West Breakwater in 1876.

Iron Shed 80 ft. by 100 ft.—Expenditure Rs. 21,706.22. This large iron shed was completed finally and handed over to the Ceylon Wharfage Company on 1st August, 1903, for they had been using the shed throughout its erection; in fact, I have had considerable difficulty in getting through my work owing to the constant acquisition of the available working space by this Company, and by their dumping stores, &c., upon work in course of construction.

Extension to B, C, and D Warehouses and New Sliding Doors.—The expenditure on this work has been Rs. 19,363.75, and the work has been completed during this year.

Vault and Road Extension of Commissariat Street.—The vault and boundary wall have been completed, but the site has still to be cleaned up. A new Chubbs' patent banker's door has also been supplied and erected during this year.

Widening Seashore Street, Kochchikade.—Expenditure Rs. 24,679.54. The whole of this road from the fish market to the approach road to the grain sheds has now been widened to a width of 50 ft. On the Resident Engineer, Colombo Harbour Works, vacating the old St John's Warehouse, I completed this roadway and handed it over to the Municipal Engineer for use.

Wood Paving of Tea Warehouses.—The trial portion of this warehouse has now been completely covered with 3-in. jarrah blocks after the floor had been re-floated. Expenditure Rs. 2,366.51.

Drainage of Kochchikade Warehouse.—The work on this estimate has been completed with an expenditure of Rs. 792.80.

Electric Cranes.—The two 2-ton cranes and one 4-ton crane on the Prince of Wales's jetty have been erected and working throughout most of this year.

Relaying of Floor of Transhipment Warehouse.—The whole of this floor has been broken and taken up and the whole of the earth removed. Hand rubble was then filled in and surmounted with 12 in. of cement concrete forming a solid floor. The expenditure was Rs. 4,145.17.

Hambantota Jetty.—This work commenced in 1902 was completed, and on the savings of the estimate a connecting piece of jetty was made from the old wooden jetty to the T head with H iron piles surmounted with concrete rings to harbour bed. In one of these concrete rings the concrete filling has washed out and will be replaced this year.

Miscellaneous, Departmental.—The manufacture of the usual Departmental tools and plant, derrick cranes, pile drivers, road rollers, water and hand carts, dredger and barge for Nuwara Eliya lake, ferry boats, and the repair of pickaxes and other tools accounted for an expenditure of Rs. 76,067.37.

IRRIGATION.

Very few orders for this Department were executed during the year, and the total expenditure is only Rs. 1,483.67.

OTHER DEPARTMENTS.

A fair amount of work was executed for the Principal Civil Medical Officer, the Government Agents, Government Printer, Surveyor-General, Inspector-General of Prisons, Local Boards, Colombo Drainage Engineer, and the Master Attendant, which included new fittings for Survey Office; doors, windows, gates, and furniture for Colombo Drainage Engineer's Office; alteration of tugs "Samson" and "Goliath"; and repair and upkeep of tugs, pilots' and police launches,—accounting for an expenditure of Rs. 46,066.33.

CASTINGS.

A further increase in the output of castings from the foundry is to be recorded this year. The total output represents 5,343 cwt., as against 4,819 cwt. in 1902, of which the Railway Department have been supplied with 1,963 cwt., with an expenditure of Rs. 17,710.67, a decrease of 564 cwt. or 25 per cent.

WATERWORKS.

Owing to duplication of the main there has been an output of work for this Department accounting for an expenditure of Rs. 4,895.54, as against Rs. 9,364.70 in 1902.

ELECTRICAL.

All works in the Electrical Department of the Government Factory is under the immediate supervision of the Superintendent of Works Mr. Rylands, and in this Department there has been an expenditure during the year of Rs. 32,124.16 for general upkeep of installations in Government buildings, additional fittings and lamps in Queen's House, Post Office, and Colombo Customs; wiring and fitting installations in Supreme and Minor Courts, Government Stores, Savings Bank, tugs "Goliath" and "Samson," Judge's Bungalow, Kandy, and electrical cranes in Colombo Customs, and repairs to instruments of Telegraph Department and Medical College.

These cranes, since the errors in meter readings was detected and charges reduced, have been in full work, much appreciated by the Landing Companies, and have given increased facilities for quick handling of cargo in the Colombo Customs. It has been decided to erect another three at once.

GENERAL.

The new machinery added to the Factory plant this year has been one 20-horse power compressor, one receiver, one pneumatic rivetter, one 9-in. high speed lathe, one milling machine, and one spoke machine. Are doing good work.

The pneumatic plant will greatly facilitate the work in the bridge department, and will keep the Government Factory in this branch of the work up to date.

A new smith shop is provided for in the Estimates of 1904, and this shop must be equipped with a modern power hammer as early as possible.

The output of work during the year compares very favourably with that of previous years, and shows an increase of Rs. 49,304.68 over that of 1902. The increase has been under buildings; Departmental Charges, which included dredger and barge for Nuwara Eliya; Other Departments, which included repairs and alterations to the tugs "Samson" and "Goliath"; Electrical and Transport. There was a decrease under Customs Improvements, owing to the completion of the jetties at Kalkuda and Trincomalee; Bridges, 117 only being made as against 181; Irrigation; Railway Castings; and Waterworks.

STAFF.

During the year the Mechanical Engineer, Mr. Hyde, has been in immediate charge of all work under construction in Colombo outside the Government Factory. The District Engineer, Mr. Jayawardene, has been in immediate charge of all work in the Government Factory. The Superintendent of Works, Mr. Rylands, has in his charge all the electrical installations of Government, repairs of all telegraph and medical instruments, and the working of Customs cranes.

The District Engineer, Mr. Jonklaas, was removed from Gintota bridge to Mihintale, and his place taken by Head Overseer Mr. Muttucumar.

All the staff, including those of the Clerical Department, have worked well and cheerfully during the past year, and have discharged their duties satisfactorily.

I attach the following returns :—

Distribution of 1903 compared with 1902.

Classification of Factory Expenditure, 1898 to 1903.

Bridges constructed during 1903.

Statement showing consumption and cost of electricity on Government Electrical Installation.

Government Factory,
February 9, 1904.

E. C. DAVIES,
Factory Engineer.

APPENDIX.

No. 1.—Statement of Expenditure (Public Works Annually Recurrent), 1903.

Classification.	Province.										Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabara-gamuwa.	Miscellaneous.	
Maintenance of Roads	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
Maintenance of Inland Navigation...	171,038 35	274,405 37	85,993 42	133,963 16	110,516 16	120,459 25	89,600 99	169,850 38	138,553 16	—	1,294,380 25
General	21,398 13	—	3,134 78	—	—	12,715 21	—	—	—	—	37,243 12
Repairs to Government Buildings, exclusive of Police and Hospital Buildings.	—	—	115 30	—	7,069 10	—	215 97	—	182 50	—	7,582 87
Repairs to Police Stations	28,393 46	12,381 93	6,567 37	9,582 3	5,952 6	4,584 55	6,161 33	3,445 42	4,506 74	—	81,574 89
Maintenance of Queen's Houses	5,056 81	2,393 1	575 5	1,227 23	328 17	494 74	—	239 67	480 16	—	10,794 84
Maintenance of Electric Light Installation, Colombo and Kandy	4,013 41	6,192 23	249 18	—	—	—	—	110 0	—	—	10,564 82
Maintenance of Medical Aid Hospitals	—	—	—	—	—	—	—	—	—	5,000 0	5,000 0
Repairs to Government Hospitals and Dispensaries	250 90	6,310 68	—	281 14	—	—	—	942 88	1,481 98	—	9,267 58
Temporary Hospitals in cases of Epidemics	12,355 97	6,455 58	1,928 84	1,578 42	1,704 77	1,814 93	2,147 30	1,583 95	1,780 90	—	31,380 66
Maintenance of Customs Wharf, Jetties, and Cranes	13,700 0	—	—	4,388 74	—	—	—	—	—	—	238 67
Maintenance of Camp Buildings, Diyatalawa	—	—	—	—	—	—	—	218 26	—	—	18,088 74
Additions and Improvements to Government Buildings and Works	4,413 61	2,617 8	1,260 63	1,828 17	1,439 82	4,997 96	1,756 96	1,678 57	845 36	—	20,838 16
Additions and Improvements to Police Buildings	416 42	2,145 44	228 34	591 23	—	249 5	—	90 32	—	—	3,720 80
Additions and Alterations to Government Hospitals and Dispensaries	2,233 69	2,853 99	589 16	3,011 28	212 77	—	2,395 6	—	751 78	—	12,047 73
Additions to Medical Aid Hospitals	—	2,293 88	—	—	—	—	—	160 51	1,996 92	—	3,550 81
Repairs to Bridges exceeding 50 ft. span	7,885 40	10,875 50	5,432 8	18,983 77	7,404 79	11,478 80	5,273 18	4,649 99	10,637 13	—	82,620 64
Painting Kelani Bridge	1,086 52	—	—	—	—	—	—	—	—	—	1,086 52
Miscellaneous	23,154 98	7,800 93	909 98	1,958 9	5,016 97	1,207 21	196 11	1,627 58	6,058 43	171,438 16	219,368 44
Total	295,397 65	336,993 79	106,984 13	177,393 26	139,644 61	158,001 70	107,746 90	184,507 21	166,465 38	176,438 16	1,849,572 80

No. 1 A.—Statement of Expenditure (Public Works Annually Recurrent), 1903.

Classification.	Province.									
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabara-gamuwa.	Total.
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
<i>Commutation Money.</i>										
Maintenance of Roads	98,017 62	35,787 68	30,242 77	47,245 6	16,566 13	42,086 71	10,970 38	10,082 71	31,933 52	322,932 58
<i>Private Contribution spent from Branch Roads Funds.</i>										
Maintenance of Roads	—	57,339 39	—	2,612 11	—	322 58	—	2,247 13½	4,842 64½	67,363 86
Miscellaneous	—	216 75	—	—	—	—	—	—	—	216 75
Total	—	57,556 14	—	2,612 11	—	322 58	—	2,247 13½	4,842 64½	67,580 61
Grand Total	98,017 62	93,343 82	30,242 77	49,857 17	16,566 13	42,409 29	10,970 38	12,329 84½	36,776 16½	390,513 19

No. 2.—Statement of Expenditure (Public Works Extraordinary), 1903.

Classification.	Province.										Total.										
	Western.		Central.		Northern.		Southern.		Eastern.			North-Western.		North-Central.		Uva.		Sabara-gamuwa.			
	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.		Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.		
...	209,434	33	48,748	26½	11,823	54	12,817	79	9,761	53	3,536	8	8,284	38	1,681	40	11,258	68	317,345	99½	
New Works and Buildings	...	50,232	55	45,129	92	9,529	91	4,698	6	2,489	80	5,263	58	356	43	—	—	1,507	15	119,207	40
Alterations and Additions to Buildings	...	5,752	61	4,486	68	2,849	58	2,588	90	7,619	99	163	75	1,472	21	—	—	—	—	24,933	72
Special Repairs to Buildings	...	—	—	28,866	91½	25,150	9	—	—	14,157	98	35,450	48	20,654	65	23,371	30½	92,808	67½	240,460	9½
New Roads	...	40,527	9	20,716	77½	26,051	20	20,407	49½	25,713	38	9,717	38	27,597	55	19,669	55	1,983	63	192,384	5
Additions and Improvements to Roads	...	20,242	84	43,504	33	—	—	26,240	80	62,308	40	—	—	342	70	491	56½	153,130	63½	—	—
New Bridges	...	6,610	7	8,803	43	2,885	18	13,162	84	2,094	66	1,231	89	—	—	—	—	6,846	44	41,634	51
Repair of Bridges	...	3,732	44	16,667	69	700	0	—	—	—	—	—	—	—	—	—	—	125	10	21,225	23
Lands and Buildings to be acquired	...	52,117	4	21,686	23	19,812	74	13,272	74	11,530	9	15,042	70	1,251	73	10,324	48	29,565	41	174,603	16
Miscellaneous	...	388,848	97	238,610	23½	98,802	24	931,188	62½	135,675	83	70,405	86	59,959	65	55,538	30	144,095	8½	1,284,924	79½
Total	...																				

No. 2 A.—Statement of Expenditure (Public Works Extraordinary), 1903.

Classification.	Province.									Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabaragamuwa.	
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
<i>Private Contribution spent from Branch Roads.</i>										
New Works and Buildings	—	724 82½	—	—	—	—	—	5,502 29½	17,163 87½	724 82½
New Roads	—	17,081 65½	—	—	—	—	—	—	—	39,747 82½
Additions and Improvements to Roads	—	10,922 36½	—	789 14½	—	—	—	—	—	11,711 51
New Bridges	—	—	—	—	—	—	—	491 56½	—	491 56½
Repair of Bridges	—	2,098 79	—	—	—	—	—	—	—	2,098 79
Total	—	30,827 63½	—	789 14½	—	—	—	5,993 86	17,163 87½	54,774 51½

No. 3.—Statement of Expenditure, 1903.

Classification.	Province.										Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabara-gamuwa.	Miscellaneous.	
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
<i>Public Works Annually Recurrent.</i>											
Maintenance of Roads	269,055 97	337,532 44	116,236 19	183,820 33	127,082 29	162,868 54	100,571 37	182,180 23	175,329 33	—	1,684,676 69
Maintenance of Inland Navigation...	21,398 13	—	3,134 78	—	—	12,715 21	—	—	—	—	37,248 12
General	—	—	115 30	—	7,669 10	—	215 97	—	182 50	—	7,582 87
Repairs to Buildings	63,770 55	34,002 10	9,320 44	17,057 56	7,985 0	6,894 22	8,308 63	6,540 18	8,249 78	5,000 0	167,128 46
Additions to Buildings	7,063 72	9,909 89	2,078 13	5,430 68	1,652 59	5,247 1	4,152 2	1,839 8	2,784 38	—	40,157 50
Repairs of Bridges	8,971 92	10,875 50	5,432 8	18,933 77	7,404 79	11,478 80	5,273 18	4,649 99	10,637 13	—	83,707 16
Miscellaneous	23,154 98	8,017 68	909 98	1,958 9	5,016 97	1,207 21	196 11	1,627 58	6,058 43	171,438 16	219,585 19
Total Recurrent	393,415 27	430,337 61	137,226 90	227,250 43	156,210 74	200,410 99	118,717 28	196,837 6	203,241 55	176,438 16	2,240,085 99
<i>Public Works Extraordinary.</i>											
New Works and Buildings	209,434 33	49,473 9	11,823 54	12,817 79	9,761 53	3,536 8	8,284 38	1,681 40	11,258 68	—	318,070 82
Alterations and Additions to Buildings	50,232 55	45,129 92	9,529 91	4,698 6	2,489 80	5,263 58	356 43	—	1,507 15	—	119,207 40
Special Repairs to Buildings	5,752 61	4,486 68	2,849 58	2,588 90	7,619 99	163 75	1,472 21	—	—	—	24,933 72
New Roads	—	45,948 57	25,150 9	—	14,157 98	35,450 48	20,654 65	28,873 60	109,972 55	—	280,207 92
Additions and Improvements to Roads	40,527 9	31,639 14	26,051 20	21,196 64	25,713 38	9,717 38	27,597 55	19,669 55	1,988 63	—	204,095 56
New Bridges	20,242 84	43,504 33	—	26,240 80	62,308 40	—	342 70	—	—	—	153,622 20
Repairs of Bridges...	6,610 7	10,902 22	2,885 18	13,162 84	2,094 66	1,231 89	—	—	6,846 44	—	43,733 30
Lands and Buildings to be acquired	3,732 44	16,667 69	700 0	—	—	—	—	—	125 10	—	21,225 23
Miscellaneous	52,117 4	21,686 23	19,812 74	13,272 74	11,530 9	15,042 70	1,251 73	10,324 48	29,565 41	—	174,603 16
Total Extraordinary	388,648 97	269,437 87	98,802 24	93,977 77	135,675 83	70,405 86	59,959 65	61,532 16	161,258 96	—	1,339,699 31
Total Recurrent and Extraordinary	782,064 24	699,775 48	236,029 14	321,228 20	291,886 57	270,816 85	178,676 93	258,369 22	364,500 51	176,438 16	3,579,785 30
<i>Works chargeable to Loans, &c.</i>											
Duplication of main	1,047,088 56	—	—	—	—	—	—	—	—	—	1,047,088 56
Service Reservoir, Elie House	60,805 82	—	—	—	—	—	—	—	—	—	60,805 82
Harbour Loan Funds (repairs, &c., Mutwal and Mahara Jails)	5,999 80	—	—	—	—	—	—	—	—	—	5,999 80
Volunteer Funds (causeway at Diyatalawa Camp, &c.)	—	—	—	—	—	—	—	1,712 17	—	—	1,712 17
Government Dairy Funds (repairs, &c., Government Dairy)	2,315 36	—	—	—	—	—	—	—	—	—	2,315 36
Forest Department Funds (boundary wall, Timber Depot, Slave Island)	210 48	—	—	—	—	—	—	—	—	—	210 48
Making buoys for trawling operations	3,500 0	—	—	—	—	—	—	—	—	—	3,500 0
Plague Precautions	14,821 13	—	7 0	6,683 34	—	—	—	—	26 5	—	21,537 50
Resthouse, Kalmunai	—	—	—	—	569 83	—	—	—	—	—	569 83
Furniture, Kegalla Land Registry Office	—	—	—	—	—	—	—	—	298 50	—	298 50

[illegible]

No. 4.—Return of Roads in charge of the Public Works Department, 1903.

Name of Road.	Length in Miles.				Cost of Maintenance during 1903.				Width of Track in Feet.				Average Cost per Mile.				Traffic Average Number of Carts per Diem over portions.			
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.		
WESTERN PROVINCE.																				
COLOMBO DISTRICT.																				
Approach roads to public offices in the Colombo Fort	—	0.22	—	—	0.22	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	—	—	—	—	—	—	—	—	
Approach roads to railway stations, Wellawatta, Dehiwala, and Mount Lavinia	—	2.36	—	—	2.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Approach road to Kelaniya railway station	—	—	.36	—	.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Branch roads, Dematagoda	—	.50	—	—	.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kotte road toll bar to junction of Galle road near Wellawatta	—	—	7	—	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ohathan street extension	—	—	.43	—	.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dematagoda to Wellampitiya	—	.75	—	—	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Grandpass to 34th milepost, Kandy road	—	31	—	—	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Grandpass to Avisawella	—	27	—	—	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hanwella to Bope	—	8.50	—	—	8.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kelaniya to Biyagama	—	8	—	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kelani bridge approaches	—	.90	—	—	.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Municipal toll bar at Bambalapitiya to Kotte road junction at Panankada	—	—	.50	—	.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Roads within the Customs premises.	—	—	.63	—	.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Urugodawatta road	—	—	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Veyangoda-Ruwanwella road to Western Province boundary	—	11	—	—	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Wellawatta to 7th milepost, Galle road	—	3	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Wak-oya bridge to Labugama	—	8.50	—	—	8.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Madampitiya-Mattakuliya road	—	.50	—	—	.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Road to grain sheds, Kochehikade	—	.16	—	—	.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Road from Pasyala to Attanagalla	—	4.14	—	—	4.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KALUTARA DISTRICT.																				
Horana to Alutgama.	—	13	17.42	—	30.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Approach roads to railway stations, Panadure and Wadduwa and beyond Kalutara to Alutgama, Angulana, Lunawa, and Moratuwa	—	4.02	—	—	4.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
7th mile, Galle road to Bentota	—	31	—	—	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Moratuwa to junction of Kesbewa road	—	3	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Nagoda-Nebođa road	—	10.36	—	—	10.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Route	Distance	Time	Remarks
Pandure to Nambapana
Road to Beruwala Customs
Road leading to district hospital, Neboda
Bope-Nambapana road
Horawella to Moragalla resthouse
NEGOMBO DISTRICT.			
Approach roads to Henaragoda railway station
Approach roads to Veyangoda railway station
Approach roads to Mahara prison
Grundpass to Toppu
Girulla to Pasyala
Ja-ela to Kotadeniyawa
Minuwangoda to Henaragoda
Maha Hunupitiya to Mugurugampola
Negombo to Girulla
Veyangoda to Negombo
Welisara to Ragama
Total
CENTRAL PROVINCE.			
KANDY DISTRICT.			
Approach roads to public buildings, Kandy
Ampitaya road
Haragama to Kurundu-oya
Kandy to Haragama
Kandy railway approach roads
Katugastota to Queen's Hotel
Lower Badulla road, Kandy section
Peradeniya to Lewella ferry
Peradeniya to Gampola
Branch Roads.			
Deltota road
Padiyapellella and Elamulla roads (Govt. moiety)
KATUGASTOTA DISTRICT.			
From junction of Hnagariya road to Iriyagastenna
Gonawatta ferry to Rajawella
Iriyagama to Aladeniya
Kadugannawa to Peradeniya
Katugastota to Madulkele
Katugastota to Balakaduwa
Katugastota to Galagedara
Laggala kavalam road, Laggala
Madawala to Teldeniya and Nigatenna gap
Teldeniya to Rangalla

No. 4.—Return of Roads—continued.

Name of Road.	Length in Miles.				Cost of Maintenance during 1903.				Width of Track in Feet.			Average Cost per Mile.				Traffic Average Number of Carts per Diem over portions.			
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.
CENTRAL PROVINCE—contd.																			
KATUGASTOTA DISTRICT—contd.																			
<i>Branch Roads.</i>																			
Dotale road (Govt. moiety) ...	—	—	8.18	—	8.18	—	—	2,397 98	—	2,397 98	—	—	—	—	2,397 98	—	—	—	—
Duckwari bazaar to Kotaganga (Govt. moiety) ...	—	—	1.75	—	1.75	—	—	1,482 70	—	1,482 70	—	—	—	—	1,482 70	—	—	—	—
Madulkele to Kabaragala ...	—	—	3.25	—	3.25	—	—	2,589 14	—	2,589 14	—	—	—	—	2,589 14	—	—	—	—
Madulkele to Bambara-ela (Govt. moiety) ...	—	—	7.75	—	7.75	—	—	3,524 72	—	3,524 72	—	—	—	—	3,524 72	—	—	—	—
Nugatenna gap to Kohonela (do.) ...	—	—	4.77	—	4.77	—	—	2,334 45	—	2,334 45	—	—	—	—	2,334 45	—	—	—	—
Rangalla-Nitre Cave road (do.) ...	—	—	3.75	—	3.75	—	—	1,208 10	—	1,208 10	—	—	—	—	1,208 10	—	—	—	—
Kadugannawa to Alagalla (do.) ...	—	—	5	—	5	—	—	2,653 78	—	2,653 78	—	—	—	—	2,653 78	—	—	—	—
MATALE DISTRICT.																			
Balakaduwa to junction of Trincomalee ...	—	—	36.50	—	36.50	—	—	28,572 2	—	28,572 2	—	—	—	—	28,572 2	—	—	—	—
Anuradhapura road ...	—	14.10	—	—	14.10	—	—	2,907 78	—	2,907 78	—	—	—	—	2,907 78	—	—	—	—
Beligamuwa to Mirisgoni-oya ...	—	7.50	—	—	7.50	—	—	1,638 72	—	1,638 72	—	—	—	—	1,638 72	—	—	—	—
Kalawewa to Galawela ...	—	14.25	—	—	14.25	—	—	3,116 9	—	3,116 9	—	—	—	—	3,116 9	—	—	—	—
Naula to Elahera ...	—	—	6.50	—	6.50	—	—	4,394 62	—	4,394 62	—	—	—	—	4,394 62	—	—	—	—
Matale to Rattota ...	—	—	1.50	—	1.50	—	—	579 25	—	579 25	—	—	—	—	579 25	—	—	—	—
Palapatwela to Galawela ...	—	17.50	—	—	17.50	—	—	3,919 71	—	3,919 71	—	—	—	—	3,919 71	—	—	—	—
Ukuwela road ...	—	—	1.38	—	1.38	—	—	579 69	—	579 69	—	—	—	—	579 69	—	—	—	—
Matale to Udapella and Kalapitiya to Ukuwela railway station ...	—	—	4.75	—	4.75	—	—	2,998 40	—	2,998 40	—	—	—	—	2,998 40	—	—	—	—
PUSSELLAWA DISTRICT.																			
Approach roads to public buildings and to railway stations, Gampola and Ulapane ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gampola to Pussellawa ...	—	10	—	—	10	—	—	41 15	—	41 15	—	—	—	—	41 15	—	—	—	—
Gampola to Nawalapitiya ...	—	—	12	—	12	—	—	272 78	—	272 78	—	—	—	—	272 78	—	—	—	—
Pundaluoya-Watagoda road ...	—	10.70	—	—	10.70	—	—	10,695 49	—	10,695 49	—	—	—	—	10,695 49	—	—	—	—
Pussellawa to Ramboda ...	—	—	7.15	—	7.15	—	—	3,893 63	—	3,893 63	—	—	—	—	3,893 63	—	—	—	—
Pundaluoya-Tawalantenna road ...	—	—	9	—	9	—	—	5,399 15	—	5,399 15	—	—	—	—	5,399 15	—	—	—	—
Pupuressa road (Govt. moiety) ...	—	—	9.25	—	9.25	—	—	4,386 60	—	4,386 60	—	—	—	—	4,386 60	—	—	—	—
NUWARA ELIYA DISTRICT.																			
Ambawela road ...	—	—	10	—	10	—	—	6,436 60	—	6,436 60	—	—	—	—	6,436 60	—	—	—	—
Blackpool bridle path ...	—	—	5.12	—	5.12	—	—	2,349 64	—	2,349 64	—	—	—	—	2,349 64	—	—	—	—
Approach roads to public buildings and railway station, Nuwara Eliya ...	—	7.80	—	—	7.80	—	—	387 95	—	387 95	—	—	—	—	387 95	—	—	—	—
Approach roads to public buildings and railway station, Nuwara Eliya ...	—	3.61	—	—	3.61	—	—	871 50	—	871 50	—	—	—	—	871 50	—	—	—	—

Lindula to Nuwara Eliya (Nanu-oya to Nuwara Eliya)</
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No. 4.—Return of Roads—*continued*.

Name of Road.	Length in Miles.				Cost of Maintenance during 1903.				Width of Track in Feet.				Average Cost per Mile.				Traffic Average Number of Carts per Diem over portions.				
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Rs. c.	Rs. c.	Track Metalled.	Rs. c.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.	
CENTRAL PROVINCE—contd.																					
DIKOYA DISTRICT—contd.																					
Norwood-Upcott road (Govt. moiety)	7.90	...	7.90	...	...	...	...	...	...	4,981 77	...	...	...	...	...	...	...	46	
Wanarajah road (Govt. moiety)	4.50	...	4.50	...	...	...	...	...	...	1,894 27	...	...	...	...	...	...	...	83	
Annfield road (Govt. moiety)	3.50	...	3.50	...	...	...	...	...	...	1,191 57	...	...	...	...	...	...	...	18	
Total	49.25	67.63	541.66	...	658.54	3,049 43	15,385 16	348,847 75	...	...	...	367,282 34	...	...	...	...	61	...	...	...
NORTHERN PROVINCE.																					
JAFNA DISTRICT.																					
Achchaveli to Tondaimannar	3.50	...	3.50	...	...	...	...	...	...	317 31	...	...	...	...	...	...	...	8	
Drainage channels, Jaffna	10	...	...	...	10	664 39	...	...	...	...	...	664 39	...	...	...	...	66	...	...	...
Gravets of Jaffna	44	...	44	...	...	...	...	...	...	7,826 59	...	...	...	...	...	...	...	127	
Jaffna to Karitivu	14.25	...	14.25	...	...	...	...	...	...	2,935 71	...	...	...	...	...	...	...	75	
Jaffna to Kankesaturai	11.50	...	11.50	...	...	...	...	...	...	3,012 41	...	...	...	...	...	...	...	147	
Jaffna to Point Pedro	21	...	21	...	...	...	...	...	...	4,519 41	...	...	...	...	...	...	...	66	
Jaffna to Kaitadi	6.50	...	6.50	...	...	...	...	...	...	2,156 99	...	...	...	...	...	...	...	47	
Maunipai to Kaitadi	8.50	...	8.50	...	...	...	...	...	...	1,365 32	...	...	...	...	...	...	...	27	
Punnalai road	10.50	...	10.50	...	...	...	...	...	...	2,006 33	...	...	...	...	...	...	...	62	
Pannaiturai to Kayts	10	...	10	...	...	...	...	...	...	787 65	...	...	...	...	...	...	...	10	
Point Pedro to Punnalai	25	...	25	...	...	...	...	...	...	2,939 82	...	...	...	...	...	...	...	10	
Tilippalai to Pandatiruppu	4.50	...	4.50	...	...	...	...	...	...	715 4	...	...	...	...	...	...	...	6	
Vallai to Valluvedditurai	3.50	...	3.50	...	...	...	...	...	...	635 64	...	...	...	...	...	...	...	9	
Valukkai-aru to Velanai	4	...	4	...	...	...	...	...	...	304 86	...	...	...	...	...	...	...	7	
Approach road to Valluvedditurai Customs07	...	.07	...	...	...	...	...	...	18 67	...	...	...	...	...	...	...	2	
PALLAI DISTRICT.																					
Chavakachcheri to Karaveddi	12	...	12	...	...	...	...	...	...	1,607 21	...	...	...	...	...	...	...	12	
Karanavai to Tunnalai	5.50	...	5.50	...	...	...	...	...	...	641 16	...	...	...	...	...	...	...	6	
Kaitadi to Mankulam	54	...	54	...	...	...	...	...	...	24,861 34	...	...	...	...	...	...	...	52	
Point Pedro to Kodikaman	8.50	...	8.50	...	...	...	...	...	...	1,605 19	...	...	...	...	...	...	...	19	
Puttur to Kodikaman	8.50	...	8.50	...	...	...	...	...	...	1,184 65	...	...	...	...	...	...	...	22	
Approach roads to railway stations, Pallai and Chavakachcheri33	...	.33	...	...	...	...	...	...	394 89	...	...	...	...	...	...	...	12	
VAVUNIYA DISTRICT.																					
Central road to Mullaitivu (new trace)	...	25.50	5	...	30.50	...	5,031 5	1,972 0	...	...	...	7,003 5	...	...	...	...	...	...	...	7
Mankulam to Galkandamadu	34.25	...	34.25	...	...	17,605 77	...	...	...	17,605 77	...	...	...	...	...	...	...	28	
Mullaitivu to Central road (old trace)	24	3	...	...	27	1,232 69	509 15	...	...	...	...	1,741 84	12	12	...	...	51	169	...	1

...	22-25 6	—	5,141 11 643 53	—	5,141 11 643 53	—	12	—	—	—	231 107	—	—	20	—
Vavuniya to Parayanankulam	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vavuniya towards Horawapofana	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MANNAR DISTRICT.															
Coast road to Colombo	73	5	—	732 14	—	—	—	—	—	—	49	—	—	3	—
Mannar causeway	...	—	2-50	—	1,338 66	—	—	—	—	—	—	535	—	—	20
Yakwewa to Pesalai	...	7	27-25	5,856 69	10,064 60	—	15	15	15	15	167	544	—	15	15
Total	114	89	315-90	3 17,913 67	90,817 22	—	—	—	—	—	58	287	—	—	—
SOUTHERN PROVINCE.															
GALLE DISTRICT.															
Bentota to Goyyapana	...	—	43-25	—	20,780 0	—	—	—	—	—	—	688	—	—	310
Dodanduwa to Baddegama	...	—	6-50	—	3,615 0	—	—	—	—	—	—	556	—	—	280
Galle to Udugana	...	—	22-75	—	13,497 0	—	—	—	—	—	—	593	—	—	84
Galle to Akuressa	...	—	21	—	14,193 0	—	—	—	—	—	—	675	—	—	51
Hikkaduwa to Gonapinuwa	...	—	2-70	—	1,833 0	—	—	—	—	—	—	678	—	—	193
Kahawe to Batapola	...	3-25	2	766 0	870 0	—	8	8	8	8	235	435	—	30	30
Roads within the Municipality of Galle	...	—	4-75	—	6,497 0	—	—	—	—	—	—	1,367	—	—	361
Railway approach roads	...	—	-63	—	304 0	—	—	—	—	—	—	482	—	—	—
MATARA DISTRICT.															
Akuressa to Wiharahena	...	—	33	—	20,905 0	—	—	—	—	—	—	633	—	—	36
Dikwella to Beliatta	...	—	8	—	3,279 0	—	—	—	—	—	—	410	—	—	38
Goyyapana to Tangalla	...	—	36	—	21,150 0	—	—	—	—	—	—	587	—	—	14
Hakmana to Tangalla	...	7	5	1,351 0	1,783 0	—	6	7	7	7	193	356	—	20	16
Matara to Hakmana	...	—	15	—	5,999 0	—	—	—	—	—	—	399	—	—	44
Matara new entrance road	...	—	1-25	—	474 0	—	—	—	—	—	—	379	—	—	180
Railway approach roads	...	—	1-40	—	389 0	—	—	—	—	—	—	277	—	—	147
Matara-Akuressa road	...	—	12-66	—	5,156 0	—	—	—	—	—	—	407	—	—	60
Branch Road.															
Deniyaya to Hayes (Govt. moiety)	...	—	10-50	—	5,224 0	—	—	—	—	—	—	497	—	—	14
HAMBANTOTA DISTRICT.															
Hambantota to Tanamalwila	...	—	28-50	—	18,794 0	—	—	—	—	—	—	759	—	—	50
Lewaya road	...	—	2	—	1,795 0	—	—	—	—	—	—	897	—	—	50
Tangalla to Hambantota	...	—	26	—	19,306 0	—	—	—	—	—	—	742	—	—	70
Tangalla-Hambantota road (138th mile) to Liyangahatota	...	11	11	—	1,646 0	—	—	—	—	—	—	—	—	—	—
Weligatote to Bundala	...	1-50	4	—	1,352 0	—	—	—	—	—	—	463	—	—	30
Wirawila to Kirinda via Tissamaharama	...	6-25	5	810 0	2,201 0	—	—	—	—	—	—	129	—	20	50
Total	...	36-50	284-39	7,766 0	176,045 0	—	—	—	—	—	—	619	—	—	—

No. 4.—Return of Roads—continued.

Name of Road.	Length in Miles.			Cost of Maintenance during 1903.				Width of Truck in Feet.			Average Cost per Mile.			Traffic Average Number of Carts per Diem over portions.			
	Natural.	Gravelled.	Metalled.	Truck Metalled.	Total.	Natural.	Gravelled.	Metalled.	Truck Metalled.	Total.	Natural.	Gravelled.	Metalled.	Natural.	Gravelled.	Metalled.	Truck Metalled.
EASTERN PROVINCE.																	
BATTICALOA DISTRICT.																	
Coast road north, Batticaloa District	—	26.50	20.50	—	47	—	8,360 0	16,640 0	—	25,000 0	—	—	—	—	—	—	—
Kalkuda road	—	—	3.50	—	3.50	—	—	1,999 0	—	1,999 0	—	—	—	—	—	—	—
Maduru-oya to Eravur	—	—	44.25	—	44.25	—	—	31,300 0	—	31,300 0	—	—	—	—	—	—	—
Punkuduvelli road	—	1.50	—	—	1.50	—	138 0	—	—	138 0	—	—	—	—	—	—	—
Road from the resthouse to the bar, Batticaloa	—	3	—	—	3	—	826 0	—	—	826 0	—	—	—	—	—	—	—
KALMUNAI DISTRICT.																	
Akkaraipattu-Sagamam road	—	5.50	6	—	11.50	—	1,318 0	2,134 0	—	3,452 0	—	—	—	—	—	—	—
Arasadi to Malkonpuddi	—	3.25	—	—	3.25	—	629 0	—	—	629 0	—	—	—	—	—	—	—
Akkaraipattu-Irakkamam road	—	1	—	—	1	—	200 0	—	—	200 0	—	—	—	—	—	—	—
Coast road south	30	20	48	—	98	698 0	4,727 0	20,548 0	—	26,073 0	—	—	—	—	—	—	—
Karaitivu to Sammanturai and Irakkamam	—	4	3	—	13	—	542 0	2,625 0	—	3,167 0	—	—	—	—	—	—	—
Kalmunai-Chadiyantalawa road	—	5.50	2	—	7.50	—	806 0	529 0	—	1,335 0	—	—	—	—	—	—	—
Pottuvil-Muppam road	7	8.50	—	—	15.50	171 0	1,821 0	—	—	1,992 0	—	—	—	—	—	—	—
TRINCOMALEE DISTRICT.																	
Coast road, Trincomalee District	17	25.34	—	—	42.34	1,170 0	8,829 0	—	—	9,999 0	—	—	—	—	—	—	—
Gravets of Trincomalee	—	5.40	—	—	5.40	—	1,205 0	—	—	1,205 0	—	—	—	—	—	—	—
Road from the salt store at Nilaveli to the high road	—	.61	—	—	.61	—	215 0	—	—	215 0	—	—	—	—	—	—	—
Trincomalee to Kitaluttu	—	1	28	—	29	—	242 0	12,456 0	—	12,698 0	—	—	—	—	—	—	—
Trincomalee towards Anuradhapura	—	22.50	—	—	22.50	—	4,998 0	—	—	4,998 0	—	—	—	—	—	—	—
Coast road to Toppur	—	1.61	—	—	1.61	—	1,049 0	—	—	1,049 0	—	—	—	—	—	—	—
Total	54	135.21	161.25	—	350.46	2,039 0	35,905 0	88,331 0	—	126,275 0	—	—	—	—	—	—	—
NORTH-WESTERN PROVINCE.																	
KURUNEGALA DISTRICT.																	
Approach roads to public buildings	—	.50	—	—	.50	—	343 0	576 0	—	919 0	—	—	—	—	—	—	—
Getawana circular road	—	—	1.25	—	1.25	—	—	—	—	—	—	—	—	—	—	—	—
Kurunegala to Nikaweratiya	—	25	—	—	25	—	14,762 0	—	—	14,762 0	—	—	—	—	—	—	—
Kurunegala to Beligamuwa	—	17	—	—	17	—	5,291 0	—	—	5,291 0	—	—	—	—	—	—	—
Kurunegala to Galagedara	—	5	—	—	5	—	5,994 0	—	—	5,994 0	—	—	—	—	—	—	—
Fadeniya-Siyambalagama	—	—	13.50	—	13.50	—	12,639 0	—	—	12,639 0	—	—	—	—	—	—	—
Polgahawela to Kurunegala	—	33.50	—	—	33.50	—	—	—	—	—	—	—	—	—	—	—	—
Railway approach roads and Edinburgh street, Kurunegala	—	12	—	—	12	—	4,041 0	—	—	4,041 0	—	—	—	—	—	—	—
Branch Road.																	
Kurunegala-Polgahawela road to Lowlands estate (Govt. moiety)	—	—	.62	—	.62	—	516 0	—	—	516 0	—	—	—	—	—	—	—
Total	—	—	1.17	—	1.17	—	670 0	—	—	670 0	—	—	—	—	—	—	—

PUTTALAM DISTRICT.																													
Akkaripatin road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Main road to Kirankala bridge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nikaweraiya to Puttalam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puttalam to Kala-oya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puttalam to Battulu-oya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puttalam to Maduruzama	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Service road at Palavi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Road to salt stores and town roads, Puttalam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CHILAW DISTRICT.																													
Bo-tree road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chilaw-Wariyapola road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madampe to Dummalasuriya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nattandiya to Marawila	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plakatumulla road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Toppu to Battulu-oya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Toppu to Dankotuwa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Approach road to Public buildings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
DANDUGAMA DISTRICT.																													
Dankotuwa-Girulla road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurunegala to Girulla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kompaspara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maharagama to Polgahawela	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Narammulla to Dummalasuriya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kuliyapitiya to Hettipola	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH-CENTRAL PROVINCE.																													
ANURADHAPURA DISTRICT.																													
Anuradhapura to Siyambalagama	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Approach roads to public buildings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kala-oya to Galgodahena	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mirisgani-oya to Galkandamaduru (Galkulam to Rambewa)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Talawe to Kekirawa (10 miles to Talawe)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Approach road to Railway Station, Anuradhapura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MIRINTALE DISTRICT.																													
Galkulam through Mihintale to Rambewa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Horawapota towards Vavuniya	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kala-oya to Galgodahena	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madawachchiya to Yakwewa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mirisgani-oya to Galkandamaduru (Rambewa to Galkandamaduru)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MARAKKADAWELA DISTRICT.																													
Habarana-Topawewa road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mirisgani-oya to Kintuttu	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

No. 4.—Return of Roads—continued.

Name of Road.	Length in Miles				Cost of Maintenance during 1903.						Width of Track in Feet.				Average Cost per Mile.				Traffic Average Number of Carts per Diem over portions.			
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.
Mirisgani-oya to Galkandamadu (Mirisgani-oya to Galkulam) ...	—	20-70	29-50	—	29-50	—	—	18,553 0	—	18,553 0	—	—	10	—	—	—	629	—	—	—	—	19
Kekirawa to Galawela ...	—	15-60	—	—	15-60	—	3,316 0	—	—	3,316 0	—	—	16	—	—	160	—	—	—	—	—	—
Maradankadawela to Habarana ...	—	6-50	—	—	6-50	—	3,767 0	—	—	3,767 0	—	—	16	—	—	241	—	—	—	—	—	—
Talave to Kekirawa ...	—	—	—	—	—	—	924 0	—	—	924 0	—	—	—	—	—	142	—	—	—	—	—	—
Total ...	—	131-59	112-47	68-75	312-81	—	23,728 0	48,339 0	28,683 0	100,750 0	—	—	—	—	—	1,853	2,176	927	—	—	—	—
PROVINCE OF UVA.																						
BADULLA DISTRICT.																						
Badulla to Taldena ...	—	—	10-50	—	10-50	—	—	5,949 90	—	5,949 90	—	—	—	—	—	—	566	—	—	—	—	13
Badulla to Haputale ...	—	—	25-75	—	25-75	—	—	24,004 54	—	24,004 54	—	—	—	—	—	—	932	—	—	—	—	68
Dikwella to Madulla ...	10-75	—	5-25	—	16	1,194 0	—	3,056 95	—	4,250 95	6	—	—	—	111	—	582	—	—	—	—	7
Dikwella to Hakgala ...	—	—	20-25	—	20-25	—	—	6,525 51	—	6,525 51	—	—	—	—	—	—	322	—	—	—	—	13
Kumbalwela to Passara ...	—	—	11	—	11	—	—	7,699 93	—	7,699 93	—	—	—	—	—	—	697	—	—	—	—	12
Lower Badulla road ...	15	—	—	—	15	749 25	—	—	—	749 25	6	—	—	—	49	—	—	—	—	—	—	—
Naula-Spring Valley road ...	—	—	7-60	—	7-60	—	—	4,499 99	—	4,499 99	—	—	—	—	—	—	592	—	—	—	—	11
Railway station roads ...	—	—	—	—	—	—	—	179 74	—	179 74	—	—	—	—	—	—	998	—	—	—	—	6
Umaoya-Uda Pussellawa road ...	9	—	—	—	9	559 91	—	—	—	559 91	6	—	—	—	62	—	—	—	—	—	—	—
Approach roads to public buildings ...	—	2	—	—	2	—	650 0	—	—	650 0	—	—	—	—	—	325	—	—	—	—	—	—
Bandarawela to Windy Corner ...	—	—	6	—	6	—	—	3,436 96	—	3,436 96	—	—	—	—	—	—	572	—	—	—	—	10
Roehampton to Diyatalawa ...	—	1-80	2	—	3-80	—	339 0	479 50	—	818 50	—	—	—	—	—	166	259	—	—	—	—	6
Branch Road.																						
Windy Corner to Liyangahawela (Govt. moiety) ...	—	—	2	—	2	—	—	999 50	—	999 50	—	—	—	—	—	—	499	—	—	—	—	5
PASSARA DISTRICT.																						
Badulla to boundary of Eastern Province ...	1	9	49-50	—	49-50	120 0	3,080 0	34,998 45	—	34,998 45	—	—	—	—	—	—	707	—	—	—	—	63
Bibile to Medagama ...	—	—	—	—	—	—	3,299 85	—	—	3,299 85	—	—	—	—	—	—	—	—	—	—	—	—
Bibile to Alutnuwara ...	—	—	—	—	—	—	—	5,999 88	—	5,999 88	—	—	—	—	—	—	727	—	—	—	—	7
Kumbalwela-Passara road ...	—	11	8-25	—	8-25	—	—	6,399 78	—	6,399 78	—	—	—	—	—	—	568	—	—	—	—	20
Passara-Madulsima road ...	—	—	11-25	—	11-25	—	—	1,924 32	—	1,924 32	—	—	—	—	—	—	592	—	—	—	—	6
Forest Hill to Dmedin factory ...	—	—	3-25	—	3-25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Passara-Muppane road to 9th mile ...	9	—	—	—	9	999 99	—	—	—	999 99	6	—	—	—	111	—	—	—	—	—	—	—

Branch Road.													
Passara to Madulima road, from 11½ milepost to 15½ milepost (Govt. moiety) ...													
KOSLANDA DISTRICT.													
Haputale to Halpe	—	4-25	—	—	—	2,795 96	—	—	—	10	—	—	657
Batagoda deviation	—	12-75	—	—	249 16	11,435 58	—	—	—	12	—	—	896
Haldummulla to Wellawaya	—	22-50	—	—	—	18,108 64	—	—	—	9	—	—	322
Haldummulla-Horton Plains road	12	12	—	—	1,991 6	1,991 6	—	—	—	8	—	—	804
Haputale to Ohiya	10	10	—	—	498 20	498 20	—	—	—	—	—	—	165
Ohiya to junction of Horton Plains road	2	2-25	—	—	88 25	1,761 23	—	—	—	—	—	—	49
Wellawaya to Tanamalwila	—	21-50	—	—	—	13,587 93	—	—	—	9	—	—	44
Wellawaya to Monaragala and towards Pottuvil	19-25	22	—	—	1,074 65	12,978 33	—	—	—	9	—	—	782
Passara-Muppane road, 9th mile to Muppane	9	—	—	—	297 37	297 37	—	—	—	9	—	—	631
Muppane bazaar road	—	—	—	—	271 35	271 35	—	—	—	6	—	—	511
Branch Road.	—	—	—	—	—	—	—	—	—	8	—	—	969
Koslanda bazaar to Poonagala factory (Govt. moiety)	—	2-57	—	—	—	698 81	—	—	—	8	—	—	254
Total	97	29-83	—	—	8,964 1	165,786 91	—	—	—	—	—	73	661
PROVINCE OF SABARAGAMUWA.													
RATNAPURA DISTRICT.													
Bulutota-Eraporuwa road	6	—	—	—	547 20	547 20	—	—	—	—	—	91	—
Avisawella-Ratnapura road from Pussella to Ratnapura	—	11-50	—	—	—	9,197 34	—	—	—	10	—	—	799
Erata-Kuruwita road	8	—	—	—	383 99	383 99	—	—	—	—	—	48	—
Morawaka-Rakwana road	11	—	—	—	1,414 11	1,414 11	—	—	—	—	—	128	—
Madampe towards Hambantota	—	5	—	—	—	2,015 31	—	—	—	10	—	—	403
Nambapana road	—	19-75	—	—	6,110 50	5,333 92	—	—	—	9	—	—	270
Pelmadulla to Gilgarron	—	30	—	—	—	19,350 68	—	—	—	9½	—	—	645
Ratnapura to Halpe	—	45	—	—	—	36,746 8	—	—	—	10	—	—	816
Riverside road, Ratnapura	—	1	—	—	—	739 10	—	—	—	10	—	—	739
Road to District Judge's quarters, Ratnapura	—	28	—	—	34 0	34 0	—	—	—	8	—	—	121
Roads in Government premises, Ratnapura	—	65	—	—	198 96	198 96	—	—	—	7	—	—	306
Rakwana-Bulutota road	—	32	—	—	49 94	49 94	—	—	—	8	—	—	156
Branch Roads.	—	—	—	—	—	—	—	—	—	—	—	—	—
Ratnapura-Malwila ferry road (Govt. moiety)	—	4-50	—	—	—	3,483 6	—	—	—	8	—	—	774
AVISAWELLA DISTRICT.													
Avisawella-Ratnapura road, from Avisawella to Pussella	—	14-50	—	—	—	10,434 99	—	—	—	12	—	—	719
Avisawella towards Ginigathena	—	26-50	—	—	—	19,173 54	—	—	—	12	—	—	723
Ferry approaches at Ruwanwella and Karawanella	—	34	—	—	—	447 22	—	—	—	8	—	—	894
Karawanella to Glenalla	—	14-75	—	—	—	9,203 15	—	—	—	12	—	—	623
Ruwanwella to boundary of Province	—	9	—	—	—	6,640 34	—	—	—	12	—	—	737
Sitawaka to ferry approaches	—	25	—	—	—	107 35	—	—	—	12	—	—	429

No. 4.—Return of Roads—*continued*.

Name of Road.	Length in Miles.				Cost of Maintenance during 1903.				Width of Track in Feet.				Average Cost per Mile.				Traffic Average Number of Carts per Diem over portions.			
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Rs. c.	Rs. c.	Metalled.	Track Metalled.	Total.	Rs. c.	Gravelled.	Metalled.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.
PROVINCE OF SABARAGAMUWA—<i>contd.</i>																				
AVISWELTA DISTRICT—<i>contd.</i>																				
<i>Branch Roads.</i>																				
Dehiowita to Algoda ferry (Govt. moiety) ...	—	—	1.50	—	1.50	—	—	—	896 80	—	—	896 80	—	—	—	—	—	—	18	—
Glenalla-Havilland road (Govt. moiety) ...	—	—	3.50	—	3.50	—	—	—	1,811 7	—	—	1,811 7	—	—	—	—	—	—	16	—
Road from Parakaduwa bazaar to Hemmingford estate (Govt. moiety) ...	—	—	1.88	—	1.88	—	—	—	841 4	—	—	841 4	—	—	—	—	—	—	12	—
Yatiyantota to Polatagama (Govt. moiety) ...	—	—	3	—	3	—	—	—	1,899 62	—	—	1,899 62	—	—	—	—	—	—	42	—
KEGALLA DISTRICT.																				
Ambepussa to Alawwa ...	—	5	—	19.50	5	—	416 99	—	—	—	—	416 99	—	—	—	—	—	5	—	28
Dolosbage to Rambukkana ...	—	—	—	28	28	—	—	—	10,032 86	—	—	10,032 86	—	—	—	—	—	—	—	58
Kandy road, 34th milepost to Kadugamawa ...	—	—	—	7.25	7.25	—	—	—	9,803 66	—	—	9,803 66	—	—	—	—	—	—	—	78
Kegalla to Polgahawela ...	—	—	—	14	14	—	716 57	—	—	—	—	3,214 38	—	—	—	—	—	—	—	30
Kegalla to Bulatkohopitiya ...	—	2.25	—	—	2.25	—	267 82	—	—	—	—	7,730 55	—	—	—	—	—	—	—	26
Roads in Government premises, Kegalla	—	1.50	—	—	1.50	—	—	—	831 92	—	—	831 92	—	—	—	—	—	—	—	—
Kinadeniya road	—	—	—	3.25	3.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>Branch Road.</i>																				
Gevilipitiya-Hatgampola (Govt. moiety) ...	—	—	—	1.65	1.65	—	—	—	753 70	—	—	753 70	—	—	—	—	—	—	—	6
Total ...	25	32.16	191.97	73.65	322.78	2,345 30	7,794 78	128,320 61	32368 7	170,828 76	—	—	94	242	668	439	—	—	—	—

No. 5.—Bridges constructed at the Government Factory during 1903.

No. of Spans.	Name.	Span. Ft. in.	Clear Width. Ft. in.	Weight per Foot run.			Total Dead Weight. Cwt.	Safe Live Load calculated per Square Foot.	Estimated Cost.		Type of Bridge.
				Girders. Cwt.	Flooring. Cwt.	Road Materials. Cwt.			Per ft. run.	Total.	
1	Bridge over Mahaweli-ganga, Ulapane, Riverside estate	140 0	10 0	7.56	1.80	7.14	2,310.00	125	Rs. c.	Rs. c.	Inverted bowstring lattice girders and corrugated flooring
3	Bridges at Kanganianodai, 33rd mile, South Coast road, Eastern Province	80 0	14 0	5.72	2.90	10.00	1,489.60	125	116 25	27,900 0	Warren type lattice girders and corrugated flooring
1	Gintota bridge	75 0	14 0	7.00	2.90	10.00	1,492.50	125	130 0	12,000 0	Do.
6	Bridges at Polwattimodara, including 4 iron piers	30 0	11 4	3.39	1.60	8.10	2,356.20	125	84 53	15,216 0	Rolled beams and curved plates
8	Bridges for approach road to Anuradhapura railway station, including 4 iron piers	30 0	14 10	4.21	2.10	10.70	4,082.40	125	104 58	25,100 0	Do.
1	Bridge, Veyangoda-Ruwanwella road	30 0	14 10	4.21	2.10	10.70	510.30	125	63 33	1,900 0	Do.
1	Bridge for Kalmunai district, Eastern Province	30 0	14 10	4.21	2.10	10.70	510.30	125	63 33	1,900 0	Do.
1	Bridge, 12th mile, Tangalla-Hambantota road	30 0	11 4	3.39	1.60	8.10	392.70	125	50 0	1,500 0	Do.
2	Bridge over Mahaweli-ganga, Ulapane, Riverside estate	30 0	10 0	2.27	1.80	7.14	672.60	125	50 0	3,000 0	Rolled beams and corrugated flooring
93	H iron bridges under 30 ft. span	—	—	—	—	—	12,135.90	125	—	41,331 0	Corrugated flooring and curved plates on rolled beams
117										146,847 0	

No. 6.—Distribution of 1903 compared with 1902.

Year.	Daily Labour.		Fuel.		Government Store Payments.		Piecework.		Market Payments.		Total.	
	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.
1903	168,499	39	15,028	43	334,930	75	144,734	52	127,352	96	790,546	5
1902	164,342	31	17,432	43	373,358	31	127,173	43	58,884	89	741,241	37
Increase ...	4,157	8	—	—	—	—	17,561	9	68,468	7	49,304	68
Decrease ...	—	—	2,454	0	38,427	56	—	—	—	—	—	—

No. 7.—Classification of Factory Expenditure, 1898 to 1903, inclusive.

Year.	Buildings.		Bridges.		Customs Improvements.		Departmental Charges.		Irrigation.		Other Departments.		Railway Castings.		Water Works.		Plague Precautions.		Camps for Prisoners of War.		Royal Visit.		Electrical.		Transport Funds.		Total.	
	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.
1898 ...	145,103	17	21,606	81	99,521	90	48,332	27	5,272	37	18,615	20	10,162	17	16,831	32	42,960	54	—	—	—	—	—	—	—	—	408,405	75
1899 ...	222,822	24	44,545	2	183,680	46	53,369	24	6,881	28	27,567	47	13,801	66	6,440	44	60,948	78	—	—	—	—	—	—	—	—	620,056	59
1900 ...	240,655	70	34,148	0	68,603	35	52,437	69	4,333	73	16,583	90	20,492	87	2,275	43	2,293	0	391,802	84	—	—	—	—	—	—	833,641	51
1901 ...	286,964	12	75,845	12	193,378	94	51,323	76	3,659	99	25,668	90	27,750	32	1,586	64	32,040	1	90,359	17	6,333	38	—	—	—	—	794,910	35
1902 ...	228,558	49	102,223	84	249,770	3	65,099	80	2,089	48	14,835	96	24,657	17	9,364	70	13,502	84	—	—	—	—	18,491	86	1,722	85	741,241	37
1903 ...	169,468	13	279,510	92	157,999	50	76,067	37	1,483	67	46,066	33	17,710	67	4,805	54	—	—	—	—	—	—	32,124	16	5,309	76	790,546	5

No. 8.—Statement showing Consumption and Cost of Electricity on Government Electric Installations, Colombo, January to December, 1903.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Consumption.		Rate.	Amount.
	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Consumption.	Total.	per B.T.U.	cts. <small>1st 1000</small> 2nd 1000	Rs. c.
Queen's House	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	B.T.U.	65—60	4,384 5
Queen's House Stables	168	41	76	2	32	891	712	1,607	137	1,580	738	852	5,649+1,187	5649	65—60	148 92
Colombo Customs, No. 1	24.4	22.6	22.6	20.7	20.7	28.2	33.8	30.1	35.7	47	45.1	41.4	372.3	372.3	40	6,687 35
Do. No. 2	571	578	618	734	762	797	885	950	974	1,209	1,113	1,078	9,919+40.0	9919	65—60	5,244 85
Customs New Ware, No. 1	672	672	660	749	742	765	762	687	617	634	551	568	8,069	8069	65—60	282 75
Do. No. 2	42	49	57	55	53	26	18	27	11	45	31	21	435	435	65—60	282 75
Customs Office Lights	20	35	35	44	45	26	24	40	20	70	30	46	435	435	65—60	282 75
General Post Office	6	8	9	10	10	5	4	7	3	11	6	7	86	86	65—60	55 90
Government Printing Office	1,411.2	1,192.8	1,210.3	1,276.8	1,514.8	1,176	1,224.6	1,159.2	1,214.5	1,294.3	1,157.8	1,192.8	12,000+3,025	3071	65—60	9,615 0
Public Instruction Dept.	21.3	7.5	11.3	11.3	58.3	26.3	22.6	24.4	18.8	47	28.2	30.1	92.1	92.1	65	199 61
Legislative and Audit	—	—	—	5.6	20.7	7.5	13.2	3.8	15	11.3	9.4	5.6	364.9	364.9	65	59 86
Legislative Council	48	46.1	37.6	83.7	149.5	—	—	—	—	—	—	—	369.4	369.4	65	237 18
Audit Office	—	—	—	—	—	36.7	26.3	34.8	79.9	38.5	65.8	87.4	540.8	540.8	40	240 11
Flagstaff Pilot House	—	—	Assmt.	24.8	Assmt. 31	74.3	94.9	82.7	40.4	148.5	20.7	23.5	608	608	65	216 32
Master Attendant's Boat Shed	70	66	77	60	35	47	44	45	41	43	44	36	2,154.6	2154.6	65	395 20
Surveyor-General's W. S.	160.7	107.2	159.8	182.4	205.9	197.4	176.7	186.1	182.4	178.6	199.3	218.1	55	55	40	861 84
Koelchikade Grain Sheds	—	—	26.5	7	1	—	3.5	5	—	4	—	8	2,630	2630	50	27 50
Customs Cranes	280	220	190	190	140	150	376	284	200	190	200	210	561	561	40	952 0
Colonial Stores	—	—	56	80	164	31	8	130	31	36	15	10	144.7	144.7	21	117 81
Survey Office, Lithograph Department	—	—	—	—	—	—	24.4	26.3	30.1	28.2	11.3	24.4	910	910	40	57 88
Minor Courts	—	—	—	—	—	—	—	—	105	305	255	245	71	71	40	364 0
Temple Trees	—	—	—	—	—	—	—	—	—	35	24	12	206.1	206.1	50	35 50
Queen's Statue	—	—	—	—	—	—	—	—	—	12.6	89.5	58.3	58.3	58.3	50	103 5
Railway Goods Yard	—	—	—	—	—	—	—	—	—	—	—	—	7,200	7200	per L.H. 32	29 15
	(approximate per annum)												57,850.3	57850.3		3,379 20
													Total B.T.U.			Rs.
																33,977 78

No. 9.—Statement of Supply and Consumption of Water during the Year 1903.

Month.	Total Supply for the Month.	Total Consumption for the Month.			Daily Consumption.		Rainfall in Inches.	
		Unmetered.	Metered.	Total.	Maximum.	Minimum.	Labugama.	Colombo.
	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Inches.	Inches.
January ...	73,186,601	54,623,527	18,412,400	73,035,927	2,603,691	2,020,128	7.73	4.16
February ...	66,185,952	50,429,716	15,163,080	65,592,796	2,528,548	2,067,206	3.24	3.95
March ...	72,964,905	56,538,725	16,868,680	73,407,405	2,533,258	2,151,943	1.79	2.53
April ...	70,873,595	53,604,698	16,816,980	70,421,678	2,476,767	2,184,896	10.72	7.62
May ...	72,989,872	55,094,062	18,046,450	73,140,512	2,707,440	2,086,066	36.62	20.76
June ...	70,882,321	53,782,471	16,939,800	70,722,271	2,617,994	2,222,557	30.67	5.42
July ...	73,277,304	56,460,856	16,850,110	73,314,966	2,490,888	2,217,850	13.90	5.02
August ...	73,277,304	57,007,869	16,278,850	73,286,719	2,712,147	2,076,620	14.44	7.54
September ...	70,761,734	55,496,672	15,227,400	70,724,072	2,457,935	2,262,462	23.31	8.06
October ...	73,115,078	56,816,144	16,355,430	73,171,574	2,519,134	2,172,271	29.14	11.17
November ...	69,190,862	57,473,079	13,830,580	71,303,659	2,801,591	2,067,206	7.58	.94
December ...	98,962,348	74,907,746	18,142,100	93,049,846	3,527,608	2,389,092	5.13	2.20
Total ...	885,667,876	682,239,565	198,931,860	881,171,425	—	—	184.27	79.37

No. 10.—Monthly Return of Water supplied by Meter in each of the Nine Wards of the City during the year 1903.

Month.	Wards.									Total.
	Fort.	Pettah.	St. Sebastian.	St. Paul's.	Slave Island.	Kotahena.	Maradana.	New Bazaar.	Kollupitiya.	
	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
January ...	4,558,630	2,926,300	30,120	1,485,340	953,630	1,343,580	5,156,590	119,880	1,838,330	18,412,400
February ...	3,590,630	2,626,250	26,250	1,020,320	632,050	1,185,210	4,454,520	90,130	1,537,720	15,163,080
March ...	4,038,080	3,029,170	32,150	1,683,610	701,220	1,289,150	3,983,680	118,730	1,992,890	16,868,680
April ...	3,502,210	2,625,060	31,780	1,651,600	749,360	1,065,070	5,298,470	108,930	1,784,500	16,816,980
May ...	3,785,910	2,842,190	28,620	1,690,250	627,470	1,203,060	5,959,820	104,700	1,804,430	18,046,450
June ...	3,092,750	2,887,700	32,200	1,742,160	620,910	1,172,190	5,506,290	98,500	1,787,100	16,939,800
July ...	2,846,460	2,635,690	35,500	1,982,610	779,200	1,015,320	5,538,080	99,270	1,917,980	16,850,110
August ...	3,045,230	2,167,930	35,710	1,915,730	749,960	1,128,330	5,189,410	101,270	1,945,280	16,278,850
September ...	2,881,410	2,023,790	30,450	1,699,110	653,090	1,157,050	4,958,960	101,830	1,721,710	15,227,400
October ...	3,111,540	1,985,840	2,9700	2,304,480	682,090	1,325,810	5,027,670	110,000	1,778,200	16,355,430
November ...	2,850,120	1,102,750	108,400	1,817,600	672,860	1,117,540	4,495,590	97,910	1,567,810	13,830,580
December ...	4,056,340	2,157,240	406,730	1,608,300	765,680	1,223,010	5,724,570	159,780	2,040,450	18,142,100
Total ...	41,359,410	29,009,910	827,610	20,601,110	8,587,520	14,225,320	61,293,650	1,310,930	21,716,400	198,931,860

No. 11.—Monthly Analysis of Water during the Year 1903.

Month and Date.	Colour.	Matched by	Grains per Gallon.							Analyst.	Microscopical Examination.	Remarks.
			Chlorine.	Phosphoric Acid.	Nitrogen in Nitrates.	Nitrites.	Ammonia.	Albumenoid Ammonia.	Oxygen absorbed in Four Hours at Ordinary Temperature.	Total Solid Matter dried at 220° F.		
1903.												
January 31	Blue	.7	0.551	—	.00504	—	0.00036	.0053	.025	2.5	Satisfactory	The water was of good quality and fit for human consumption.
February 25	Yellow	2.5	0.54	—	.004	—	Trace	.00588	.038	3	do.	do.
March 14	Blue	.25	0.448	—	.0035	—	.00014	.0056	.027	2	do.	do.
April 1	Yellow	.17	0.5	—	.0038	—	Trace	.0052	.036	4	do.	do.
May 21	Blue	.7	0.56	—	.07	—	.0009	.00558	.683*	23	do.	(See below.)
July 30	Red	2.5	0.28	—	.00026	—	—	.0021	.0819	5	do.	The water was of good quality and fit for human consumption.
August 8	Yellow	1.3	0.21	—	.00028	—	—	.002	.098	2	do.	do.
September 19	Blue	.12	0.105	—	.0016	—	.0003	.0023	.0192	2	do.	do.
October 26	Yellow	.17	0.112	—	.0016	—	.00014	.00035	.015	2	do.	do.
November 6	Red	.2	0.196	—	.0016	—	Trace	.00462	.015	3	do.	do.

* Results are unsatisfactory. This is accounted for because this sample was taken during heavy rains, and after a fortnight of heavy rains. To make the water fit for human consumption it should be filtered.

No. 12.—Abstract of Provincial Engineers' Travelling for the Year 1903.

	Total Number of Days travelled.	Total Number of Miles travelled.	Average Mileage per Diem.	Number of Nights slept out.	Average Allowance drawn per Mile.	Total Number of Miles of Roads in Province.
Provincial Engineer, Western Province ...	149	3,597	24.14	100	.44	363
Do. Central Province ...	208	5,311	25.53	149	.43	659
Do. Northern Province ...	292	4,059	13.90	168	.46	518
Do. Southern Province ...	160	2,805	17.53	129	.60	320
Do. Eastern Province ...	160	2,783	17.39	137	.61	350
Do. North-Western Province ...	138	2,887	13.61	110	.77	435
Do. North-Central Province...	157	2,342	14.92	126	.66	313
Do. Province of Uva ...	185	2,978	16.09	157	.68	373
Do. Province of Sabaragamuwa ...	144	2,663	18.49	122	.60	322

