

CEYLON.



# ADMINISTRATION REPORTS, 1900.

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PART II.—SCIENTIFIC.

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## PUBLIC WORKS.

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REPORT OF THE HON. MR. F. A. COOPER, C.M.G., M.I.C.E., &c.,  
*DIRECTOR OF PUBLIC WORKS.*







## PART II.—SCIENTIFIC.

## PUBLIC WORKS.

## REPORT OF THE DIRECTOR OF PUBLIC WORKS FOR 1900.

I HAVE the honour to submit the following report upon the operations of the Public Works Department during the year 1900.

## EXPENDITURE.

2. The total expenditure during the year under review was Rs. 5,176,467-91, classified as follows:—

	Rs.	c.
Personal Emoluments ...	462,262	83
Annual Recurrent Works ..	2,029,279	0
Extraordinary Public Works ...	1,610,260	79
Chargeable to Loans and other Funds ...	1,074,665	29
Total ...	5,176,467	91

3. In Appendix 1 will be found the annually recurrent expenditure charged against votes in the Supply Bill, and in Appendix 1 A that charged against commutation and private contribution funds.

In Appendix 2 will be found the expenditure upon Extraordinary Public Works charged against votes in the Supply Bill, and in Appendix 2 A that charged against 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.	Annually Recurrent.		Extraordinary, including Loan Works.		Total.	
	Rs.	c.	Rs.	c.	Rs.	c.
Western ...	513,605	65*	447,143	88*	960,749	53*
Central ...	403,397	57	303,075	78	706,473	35
Northern ...	130,502	98	32,814	54	163,317	52
Southern ...	199,056	24	212,125	14	411,181	38
Eastern ...	132,609	97	207,025	33	339,635	30
North-Western ...	176,259	75	110,980	49	287,240	24
North-Central ...	101,673	35	87,727	96	189,401	31
Uva ...	189,072	12	1,151,777	37	1,340,849	49
Sabaragamuwa ...	183,101	37	132,255	59	315,356	96
Total ...	2,029,279	0	2,684,926	8	4,714,205	8
			Establishment ...		462,262	83
			Total ...		5,176,467	91

## 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 ...	257-99	34-25	65-94	—	358-18
Central ...	530-83	—	69-74	66-25	666-82
Northern ...	306-00	—	88-50	123-00	517-50
Southern ...	268-45	—	40-50	—	308-95
Eastern ...	162-25	—	129-26	57-12	348-63
North-Western ...	175-67	141-00	78-36	30-00	425-03
North-Central ...	101-78	80-62	99-66	—	282-06
Uva ...	241-03	—	30-33	102-00	373-36
Sabaragamuwa ...	261-56	5-00	16-84	25-00	308-40
Total ...	2,305-56	260-87	619-13	403-37	3,588-93

\* Including expenditure under heading "Miscellaneous," Statement No. 3.

The above statement shows a decrease of 5-43 miles in the length of roads maintained compared with that obtaining during 1899. This is due to 48 miles of the North Coast road in the Eastern Province being transferred to the Provincial Road Committee. The actual length of new roads in charge of the Department was therefore 42-57.



In Appendix 4 will be found a return giving the name of each road, its length, description and particulars as to cost of maintenance and the average traffic, as far as it can be even approximately ascertained, no special means for this purpose being at the disposal of this Department.

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

Province.	Metalled. Rs.	Track Metalled. Rs.	Gravelled. Rs.	Natural. Rs.	General Average. Rs.
Western	770	—	287	—	681
Central	604	—	247	66	513
Northern	276	—	204	59	213
Southern	580	—	182	—	528
Eastern	438	—	237	40	299
North-Western	402	403	229	28	344
North-Central	359	—	148	—	285
Uva	647	—	322	72	464
Sabaragamuwa	559	97	215	99	495

The general average cost throughout the Colony was:—Metalled roads, Rs. 527 per mile; gravelled roads, Rs. 224 per mile; natural roads, Rs. 61 per mile.

8. The whole of the roads have been maintained in fair order, considering their respective classes and traffic upon them. A very marked improvement has taken place during the past two years in the roads in the Central Province.

This result has been effected to a very large extent by the zeal, energy, and careful attention to detail (upon which so much depends) displayed by the Provincial Engineer, Mr. L. Creasy.

A marked improvement is also noticeable in some of the roads in the Western Province, but the increasing heavy traffic in cocoanuts and plumbago necessitates a liberal expenditure on their maintenance. In the North-Western Province more attention to detail is required, specially as regards the shape of the roads and the clearing of jungle and side drains.

The progress in the work of replacing the old wooden bridges with iron and concrete structures has been satisfactory. The introduction of type drawings for the construction of iron bridges has not only considerably increased the output of such work at the Government Factory, but has also reduced the cost.

#### MAINTENANCE OF INLAND NAVIGATION.

9. No exceptional expenditure has been incurred under this heading.

#### FLOOD OUTLETS.

10. No work of any magnitude has been necessary for the maintenance of the existing flood outlets.

#### REPAIRS TO BUILDINGS.

11. The buildings in charge of this Department, classified in accordance with the classification in the Supply Bill, were as follows:—

Province.	Government Buildings, exclusive of Police and Hospital Buildings.	Queen's Houses.	Police Buildings.	Medical Aid Hospitals.	Government Hospitals and Dispensaries.	Total.
Western	89	1	16	1	29	136
Central	93	2	15	23	13	146
Northern	168	1	3	—	19	191
Southern	80	—	14	—	18	112
Eastern	56	—	1	—	16	73
North-Western	48	—	4	—	15	67
North-Central	55	—	—	—	14	69
Uva	33	—	1	4	6	44
Sabaragamuwa	42	—	4	12	2	60
Total	664	4	58	40	132	898

12. The following tabular statement shows the average expenditure per building during the year in each of the several Provinces:—

Province.	Approximate Average Expenditure per Building.				
	Government Buildings, exclusive of Police and Hospital Buildings.	Queen's Houses.	Police Buildings.	Medical Aid Hospitals.	Government Hospitals and Dispensaries.
Western	Rs. 230	Rs. 4,722	Rs. 271	Rs. 739	Rs. 366
Central	132	1,163	162	214	554
Northern	36	—	119	—	71
Southern	119	—	62	—	84
Eastern	120	—	349	—	94
North-Western	97	—	76	—	123
North-Central	200	—	—	—	121
Uva	110	—	309	228	342
Sabaragamuwa	111	—	130	251	240



## REPAIRS TO BRIDGES EXCEEDING FIFTY FEET IN LENGTH.

13. The usual repairs have been effected. The wooden bridge over the Tummodera-Labugama road has been replaced by an iron structure, and the replacing of the wooden bridge at Dandugama on the Colombo-Negombo road is in hand.

## IRRIGATION.

14. The works in charge of this Department were maintained under the general supervision of Mr. Parker, Assistant to the Central Irrigation Board prior to the formation of the Irrigation Department in May, 1900, when nearly the whole of the works together with the staff employed on them and plans and papers connected therewith were transferred to that Department by an order of Government.

## WORKS UNDERTAKEN DURING 1900.

15. I will now proceed to briefly enumerate the various works that have been undertaken by the Department during the year in the several Provinces under the headings Annually Recurrent, Extraordinary, and Works chargeable to Loans.

A large proportion of the information has been taken from the Annual Reports furnished by the Provincial Engineers, which almost without exception as regards systematic arrangement and inclusion of useful information show a marked improvement upon those submitted in previous years.

## WESTERN PROVINCE.

*Annually Recurrent Works.*

16. *Maintenance of Roads.*—The roads have been maintained in a fairly satisfactory condition. A marked improvement has been effected in the condition of the Grandpass-Negombo and Grandpass-Avisawella roads; the traffic on these two roads and on the Colombo-Galle road is very heavy.

17. *Inland Navigation.*—The Provincial Engineer reports that the canals have been maintained in a satisfactory condition. No works of importance were carried out during the year.

18. *Repair of Buildings.*—General repairs were carried out to the several buildings in the Province.

19. *Maintenance of Customs, Wharves, Jetties, and Cranes.*—The necessary repairs were carried out during the year.

20. *Additions and Alterations to Buildings.*—The following works were carried out :—

Minor improvements at the Post Office, Colombo.

Colombo Kacheheri—enclosing back verandah.

Royal College—providing and fixing stove in kitchen.

Kollupitiya police station—improved drainage.

Medical College—addition of sunshades to windows of operating theatre.

Colonial Secretary's Office—increased lavatory accommodation and improved floor to verandah of Record Room.

Leper Asylum, Hendala—improved water service.

District Court, Colombo—addition of railings to doors in Record Office.

Treasury, Colombo—addition of sunshades—improved shutters to entrance of the Shroff's counter and the one opposite the Treasury vault.

Medical Stores, Colombo—teak shutters were provided and fixed, provision of glass tiles and new roadway.

Lady Havelock Hospital—improved drainage.

Civil Hospital, Colombo—extension of water service.

Cinnamon Gardens police station—erection of dust and rubbish bins.

Government Stores—boarded ceiling to office of Controller of Stores.

Police Hospital—a new kitchen.

Police Magistrate's quarters, Pasyala—brick floor to bedroom and hall, construction of covered way.

Negombo jail—renewing roof of H, I, and J wards.

Mahara jail—lightning conductor.

Negombo powder magazine—lightning conductor.

Kalutara powder magazine—lightning conductor.

Kalutara Fiscal's Office—glass tiles in roof.

Panadure Police Court—latrine.

21. *Repairs to Bridges.*—The bridges were maintained in a satisfactory condition except the Digorella and Giriulla bridges, the platforms of which have given a good deal of trouble. The entire renewal of the platform of the former is in hand.

22. *Miscellaneous.*—The following works were carried out under this heading :—

Home for Incurables—raising low-lying land.

Madampitiya-Mattakkuliya road—construction of culvert.

Duwa, Negombo—completion of embankment.

Colombo-Kandawilla road—construction of culvert.

Anguruwatota ferry—general repairs to ferry boat.

Metal quarry at Moratuwa—acquisition of.

*Public Works Extraordinary.*

23. *New Works and Buildings.*—The following works were completed :—

Infirmery, Leper Asylum, Hendala.

Quarters for Medical Superintendent, Lunatic Asylum.

Cooly lines—a set of six rooms at Veyangoda and one of three rooms at Panadure.

The following works are in progress :—

New Orderly stables and lines, Galle Buck.

Permanent wards, Leper Asylum, Hendala.

General Magazine for storage of explosives.

Female ward and latrines, Lunatic Asylum.

Police barracks, Negombo.

Dehiwala flood outlet works.

The accommodation for Fort police and the new Technical College were not proceeded with pending the receipt of instructions from Government.



24. *Alterations and Additions to Buildings.*—The following works were completed :—

Improvement and extension of Government Printing Office.  
 Extension of female surgical ward, Civil Hospital.  
 New drain, Leper Asylum, Hendala.  
 Electric fans, Queen's House.  
 Sunshades, Audit Office.  
 Additions to Government Factory.  
 Mooring boat slip.  
 Police Inspector's quarters, Kollupitiya.  
 Improvements, Civil Hospital, Negombo.  
 Converting portion of Slave Island jail into quarters for married bandsmen, Ceylon Volunteers.  
 Raising wall round pingo shed, Welikada jail.  
 Improvements, Attorney-General's Office.  
 Enclosing part of store bordering new road, Government Stores.  
 Electric lighting and fans, Queen's House.  
 Sunshades, Attorney-General's Office.  
 Painting ball room, Queen's House.  
 New drains, Royal College.  
 Drainage of Queen's House, Colombo.  
 Improvements to room, Queen's House.  
 Erecting latrine and urinal, Panadure court.  
 Improvement to drains, Mounted Orderlies' stables, Slave Island.

The improvement of the present system of drainage at Welikada jail is in progress.

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

Painting Colombo Museum.  
 Painting Lunatic Asylum.  
 New ceiling, Queen's House.  
 Slave Island jail.  
 Renewing floors, Queen's House.

The work of re-roofing Waterworks store, Maligakanda, is in hand.

26. *Additions and Improvements to Roads.*—The following works were in progress :—

Giriulla-Pasyala road.  
 Veyangoda-Ruanwella road.  
 Jaala-Kotadeniya road.  
 Nambapana-Bope road.  
 Grandpass-Negombo road.  
 Horana to Alutgama.  
 Kesbewa to Moratuwa.

27. *New Bridges.*—The Tummodera bridge, 120 feet span, carrying a 10-foot roadway, on the Wakoya-Labugama road, has been completed. The bridge is of the lattice girder type and the platform is of iron and concrete. The construction of the Dandugama and the widening and re-flooring the Digorella bridge have made good progress.

28. *Repairs to Bridges.*—The work of repairing Digorella bridge has been merged into that of widening and re-flooring it, mentioned above.

29. *Land and Buildings to be acquired.*—The following acquisitions have been made :—

Metal quarry at Edirigoda on the 8th mile, Kotte road.  
 Site for cooly lines at Panadure.

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

Converting two timber bridges into iron ones on the 26th and 27th miles, Avisawella road—one on the 6th mile, Veyangoda-Ruanwella road.  
 On the Avisawella road five bridges were converted into iron ones on the 26th, 27th, 21st, and 22nd miles.  
 Conversion of four timber bridges into iron ones on the Panadure-Nambapana road, and one on the Horana-Alutgama road.  
 Repairs to the Kelani embankment.

### CENTRAL PROVINCE.

#### *Annually Recurrent Works.*

31. *Maintenance of Roads.*—The Provincial Engineer reports that the roads have been maintained in working order. Careful attention has been given to the drainage and clearing jungle. On the Pundaluoya-Tawalantenna road a large landslip which has occurred at the 31.75 milepost is causing some trouble; some acres of land are on the move. A landslip of considerable extent has also occurred on the 1st mile of the Upcot-Norwood road, breaking the road; a temporary roadway has been made for the convenience of traffic, and it is proposed to divert this portion of road so as to avoid the locality of the slip.

32. *Maintenance of Buildings.*—The permanent buildings have been maintained in a satisfactory condition, and as far as possible those of a temporary nature have been maintained in a condition fit for occupation.

33. *Additions and Improvements to Buildings.*—Under this heading improvements have been carried out to the kitchen, Deltota hospital, the Entomologist's bungalow at Peradeniya, the sanitary arrangements of Post Office, Kandy, the Medical Officer's quarters, Rangalla, the Dispensary, Nalanda, the Post Office, Gampola, the water supply, Lindula Hospital, the District Medical Officer's quarters, Dimbula, the sergeants' quarters, police barracks, Hatton, the Kachcheri, Nuwara Eliya, Government bungalow, Nuwara Eliya, police station, Rangalla, and District Engineer's quarters, Nuwara Eliya.

34. *Repairs to Bridges.*—The usual repairs to bridges have been effected and the bridges maintained in an efficient condition.

35. *Miscellaneous Minor Works.*—Under this heading the following works have been carried out :—

Improvements to the Kandy-Haragama road by removing sharp corners.  
 Construction of retaining wall, 18½ mile, Bambara-ela road.  
 Construction of retaining wall, 10th mile, Peradeniya-Gampola road.



Construction of culvert at Wattegama.  
 Construction of culvert, 8th mile, Belligama-Mirisgonioya road.  
 Construction of culvert, 19th mile, Pupuressa road.  
 Rebuilding walls, Gampola-Nawalapitiya road.  
 Removing slip, 11th mile, Nawalapitiya-Craigie Lea road.  
 Removing slip, Lindula and Agra road.  
 Approach road, Hatton bazaar.  
 Improvements to Nanu-oya road by removal of sharp corners and extension of culverts.

*Public Works Extraordinary.*

36. *New Works.*—The following works have been completed :—

Ward for paying patients, Lindula hospital : accommodation, two bedrooms, one sitting room, servants' room, kitchen, stores, and bathroom.  
 Laboratory, Royal Botanic Gardens.  
 Nawalapitiya circuit bungalow.  
 Nawalapitiya hospital, infectious disease ward.  
 Kadugannawa school, teacher's house.  
 Quarters for Medical Officer, Nawalapitiya.  
 Headmen's lodge, Nuwara Eliya.  
 Orderly lines, Queen's Cottage, Nuwara Eliya.  
 Cooly lines on the Deltota road, North road, Gampola and Pussellawa road, Lindula and Nuwara Eliya road.  
 Medical aid hospital, Ramboda, including two wards, Medical Officer's quarters, dispensary and dispenser's quarters, sisters' quarters, mortuary, and the necessary outbuildings.

The following works are in progress :—

Hospital, Maturata.  
 Dikoya Public Works Department bungalow.  
 Hospital, Dimbula.  
 Infectious diseases hospital, Nuwara Eliya.  
 Stabling for eight horses and wood and straw shed, Queen's Cottage, Nuwara Eliya.

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

Kadugannawa boys' school.  
 Additions to post office, Pussellawa.  
 Improvements to District Engineer's bungalow, Katugastota.  
 Additions to Curator's bungalow, Peradeniya.  
 Deltota water supply.  
 Hatton post office.  
 Sanitary and other improvements to Pavilion, Kandy.  
 Electric light, Pavilion, Kandy.  
 Electric bells, Pavilion, Kandy.

The following works are in progress :—

Pussellawa hospital.  
 Alterations and additions, Uda Pussellawa hospital.

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

Pavilion Kandy.  
 Roof of Police Court, Kandy.  
 Painting Civil Hospital, Matale.  
 Medical Officer's quarters, Nuwara Eliya.  
 Repairs to premises occupied by staff at Peradeniya.

39. *New Roads.*—The following works have been completed :—

Annfield road.  
 Padiyapelella-Kabaragala road.  
 Connecting road from Uda Pussellawa road to Havelock drive.  
 Galawela to Kalawewa road.  
 Retaining wall, Nugatenna-Kobonila road.

Good progress has been made with the Ambawella road ; a good deal of trouble has been experienced in the double cutting through the gap on the 4th mile, owing to the treacherous nature of the ground.

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

Madulkele-Bambaracla branch road.  
 Pupuressa road retaining wall.  
 Balakaduwa to junction of Trincomalee-Anuradhapura road.  
 Katugastota to Galagedara road.  
 Ambawella road.  
 Ellahara-Naula Pallegama road.  
 Rangalla road.  
 Retaining walls, Ramboda to Wilson's Bungalow road.  
 Matale-Rattota road at 17½ milepost.

The following works are in progress :—

Deltota branch road.  
 Kandapola-Uda Pussellawa road.

41. *New Bridges.*—The iron lattice girder bridge over the Dambulu-oya at Dambulla with iron and concrete platform and masonry abutments, together with the approaches, has been completed ; the bridge is 104 feet in span and carries a roadway 10 feet in width.

Good progress has been made with the erection of an iron lattice girder bridge with iron and concrete platform on the first mile of the Beligamūwa to Mirisgoni-oya road.

42. *Repairs of Bridges.*—The following works were completed :—

Repairs to the satinwood bridge, Peradeniya.  
 The Strathdon-Fruit Hill bridge.  
 The Gampola suspension bridge.

43. *Lands and Buildings to be acquired.*—Applications have been made for the acquisition of quarries, but I regret to have to report the acquisitions have not yet been completed.



44. *Miscellaneous*.—Under this heading the following works have been completed:—

Converting timber bridges into iron ones on the Haragama-Kurunduoya road.  
Removal of landslip, Lindula hospital.  
Water service from Waterworks to Government Civil hospital, Nuwara Eliya.  
Conversion of West Hall timber bridge into iron, Nawalapitiya-Dimbula road.  
Water service from Waterworks to Nawalapitiya circuit bungalow.  
Improvement, 23rd mile, Balakaduwa to junction of Trincomalee road.  
Water services from Waterworks to 17 public buildings, Nuwara Eliya.

The following works are in progress:—

Converting timber bridges into iron ones, Pundalu-oya road.  
Constructing a road to new building sites, Nuwara Eliya.  
Improvement of Nuwara Eliya lake.  
Surveying and levelling proposed road from Alagalla to Kadugannawa.

### NORTHERN PROVINCE.

#### *Annually Recurrent Votes.*

45. *Maintenance of Roads*.—The Provincial Engineer and Government Agent report an improved condition of the roads in this Province. The former states that they were well maintained and in very fair order.

Increased provision has been made in the Supply Bill for this year for the maintenance of some of them in view of the anticipated increase of traffic during the construction of the railway. The Mullaitivu new trace suffered considerable damage between the 20th and 30th milestones from the flood during the month of December.

The upkeep of metalled roads in the Mannar and Pallai districts is expensive, owing to the necessity of importing stone from Jaffna, a distance of 50 miles for the purpose.

46. *Maintenance of Inland Navigation*.—The channels have been well maintained and the Provincial Engineer reports the system of transporting the silt dredged from the channels in the neighbourhood of Jaffna to the Karaiur reclamation has proved satisfactory.

47. *Repairs to Buildings*.—The necessary repairs were carried out, but the general condition of the hospitals and dispensaries is not so satisfactory as could be wished. The Provincial Engineer, however, hopes to improve their condition during the current year. The Medical Department abandoned the temporary building at Pesalai, Vankalai, and Kallar during the year.

48. *Additions and Improvements to Buildings*.—The following works were completed:—

Improvements to the Police Magistrate's premises, Point Pedro.  
Improvements to the District Court, Jaffna.  
Alterations to the Jaffna Kachcheri.  
Addition of a bell to the female jail, Jaffna.  
Addition of tats, District Engineer's quarters, Mannar.  
Addition of sunshade, Pallai dispensary.  
Addition of latrine, Police Court, Chavakachcheri.  
Rebuilding ward No. 3, Vavuniya hospital.  
Improvements to the post office, Jaffna.  
Improvements to the Provincial Engineer's quarters, Jaffna.  
Improvements to the lock-up, Mullaitivu.  
Improvements, Vavuniya hospital.  
Addition of a culvert at entrance to the dispensary, Mankulam.

49. *Repair of Bridges*.—The Provincial Engineer reports that the bridges were well maintained.

50. *Miscellaneous Works*.—A bridge of six feet span was constructed on the 11th mile, Point Pedro road.

#### *Public Works Extraordinary.*

51. *New Works and Buildings*.—The following works were completed:—

Erection of dispenser's quarters and dispensary at Mankulam. The buildings are rubble masonry; roof of Calicut tiles: cost per cubic foot 15½ cents.  
Quarters for lighthouse-keeper, Point Pedro, consisting of two rooms 12 feet by 12 feet, with a 6-feet verandah on the southern side. The building is of a permanent character: cost per cubic foot 17¾ cents.  
Erection of two sets of cooly lines six rooms each in the Vavuniya District: cost 24 cents per cubic foot.  
Quarters for Public Works Department clerk, Mannar, consisting of two rooms 16 feet by 14 feet, with a verandah 8 feet wide all round, kitchen, store. The building is of a permanent character; the floors are unpaved: cost per cubic foot 13¾ cents.

The following works have been in progress:—

Office for Provincial Registrar, Jaffna, which is nearly completed.  
General Cemetery, Mullaitivu, with which good progress has been made, considering the difficulties consequent upon sickness amongst the labour force.  
Erection of overseer's quarters, Pesalai, Yakawewa road.

The construction of a civil hospital at Point Pedro was not commenced, the site not yet having been acquired.

52. *Alterations and Additions to Buildings*.—The following works were completed:—

Improvements to the Jaffna jail, comprising the ceiling with timber of the two blocks of cells A and B, and minor improvements.  
Improvements and additions to the court-house, Mullaitivu, comprising the extension of the building on the northern side to provide accommodation for the court officials, addition of record shelves, and erection of fencing round premises.  
Improvements to Jaffna jail, comprising the covering of the pingo shed with tiles.  
Erection of a witness shed and latrine at the Police court, Jaffna.  
Construction of surface drains, Medical Officer's quarters, Vavuniya.

53. *Special Repairs to Buildings*.—The special repairs to the roof of Police Barracks, Jaffna, were completed.



54. *New Roads*.—The preparation of the necessary plans for the construction of a road from Paranthan to Mullaitivu, 32 miles in length, have been completed; the estimate is in course of preparation.

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

Raising portions of the 21st and 22nd miles of the Mannar-Madawachchi road.  
Construction of a bridge on the 2nd mile of the Point Pedro road.

The improvement to the Coast road deviation from Mantai to Illuppaikkadavai has been in progress.

56. *Repairs to Bridges*.—The re-building of an abutment, Nantikadal bridge, was completed.

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

Construction of three bridges over the drainage channel at Kondavil in the Jaffna District.  
Repairs to Jaffna Fort.  
Repairs to Mannar Fort.  
Construction of well at Mullaivalai, Mannar District.

The following works were in progress :—

Construction of well at Puthukkudiyiruppu, Mullaitivu.  
Protecting sides of Mannar Causeway.

#### SOUTHERN PROVINCE.

##### *Annually Recurrent Votes.*

58. *Maintenance of Roads*.—The Provincial Engineer reports that the roads generally have been maintained in good order, though much difficulty has been experienced in the Hambantota District for want of water for consolidation of road metal. The heavy traffic on Lewaya road has necessitated increased provision in the estimates for 1901 for the maintenance of this road.

59. *Repairs to Buildings*.—The permanent buildings have been maintained in a state of good repair.

60. *Additions and Improvements to Buildings*.—The principal works carried out under this heading have been :—

The conversion of the divers' store, Galle, into an office for the Colonial Surgeon.  
Fitting glass windows to the Kachcheri, Galle.  
Conversion of old Customs buildings, Balapitiya, into hospital.  
Minor alterations to jail, Hambantota.

61. *Repairs to Bridges*.—The maintenance of the old wooden pile bridges in this Province is a source of increasing annual expenditure; their condition necessitated a supplementary vote of Rs. 2,200.

62. *Miscellaneous*.—Metal quarries have been acquired on the 80th mile, Goyapana road, and at Hunadeniya on the Matara-Dikwella road.

##### *Public Works Extraordinary.*

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

Police barracks, Tangalla.  
Cooly lines on the Udugama and Tanamawila roads.  
Police barracks, Galle.

The following works have been in hand :—

New Kachcheri, Hambantota.  
New cells, Galle jail. These are nearly completed.

No site having yet been selected, the erection of a house for the District Judge, Matara, has not been commenced.

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

Conversion of two wards, Matara jail.  
Improvements to the Kachcheri, Matara.  
Iron gates and fencing, Deniyaya hospital.  
Conversion of kitchen, Galle jail, into female prison.

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

Repairs to boundary wall, court-house, Balapitiya.  
Repairs to jailer's quarters, Hambantota.  
Repairs to civil hospital, Galle.  
Repairs to All Saints' school, Galle.

The repairs to the jetties at Galle were commenced, but the work was not completed owing to the delay in delivery of timber.

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

Hambantota to Tanamawila road, metalling the first 11 miles.  
Deviation of road at entrance to Hambantota.

The following works were commenced :—

Metalling road from Hambantota to Bundala.  
Improvement of road from Hikkaduwa to Gonapinuwa.  
Protecting Galle-Matara road, 83rd and 86th miles.

67. *New Bridges*.—The work of removing the old wooden bridges on the Udugama road and erecting iron ones was continued.

The ironwork for the renewal of the Bentota bridge was proceeded with at the Government Factory.

68. *Repairs to Bridges*.—Special repairs were carried out to the wooden bridges in the Matara and Hambantota Districts.

69. *Miscellaneous*.—Under this heading two cranes were erected on the jetties at Galle. The conversion of wooden bridges into iron ones on the Udugama and Akuressa roads and the construction of a masonry drain at Bentota were proceeded with. The construction of three bridges and three culverts on the Mamadola to Liyangahatota road was commenced.



## EASTERN PROVINCE.

*Annually Recurrent Works.*

70. *Maintenance of Roads.*—The Provincial Engineer reports that the roads have been maintained in good order, with the exception of the lower portion of the Maduruoya-Eravur, the 33rd mile of the Karativu-Irrakamam, and the 44th mile of the Akkaraipattu-Sagamam roads.

A special report has been addressed to Government on the subject of the Maduruoya-Eravur road, the lower portion of which at present breaks up during the dry weather. The traffic on this road is heavy and requires a more liberal supply of road metal.

The Karativu-Irrakamam road was badly breached on the 33rd mile during the heavy floods referred to in my last report; though the repair of this has been delayed pending the completion of more urgent works, it is proposed shortly to submit a project for the restoration of this road, including more adequate provision for the discharge of flood waters without damage to the road.

The Akkaraipattu-Sagamam road was also breached by the floods on the 44th mile and has been temporarily repaired. It is proposed to provide stone pitched foundations and metal the portion of this road submerged by heavy floods; the adoption of this course will admit of the road being maintained in a satisfactory condition throughout the year.

I have recently visited the Batticaloa and Kalmunai Districts. The work of repairing flood damage reported in my last annual report has been carried out in a substantial manner and very good progress with the work has been made.

There is a very marked improvement in the condition of the roads which, with a continuance of the careful and systematic attention which Mr. Tomalin, the Provincial Engineer, has given them during the past year, will in the near future meet all reasonable requirements of the district.

By order of Government 44 miles of the natural portion of the Coast road in the Trincomalee District were handed over to the District Road Committee.

The causeways constructed on the Coast road, admitting of the discharge of flood waters without damage to the road, have done good service, and as stated in my previous report there is no doubt the liberal provision of such structures on this road, admitting of the passage of traffic along the road at all times except during heavy floods, when for miles the country is all under water, will not only prove economical but be found to meet all reasonable requirements of traffic.

71. *Repairs to Buildings.*—The Provincial Engineer reports that all the Government buildings have been maintained in a good state of repair with the exception of the Apothecary's quarters at Mutur and the Fiscal's office at Batticaloa; the former requires entire reconstruction, and special provision has been made in the Supply Bill for the current year in respect of the latter.

72. *Alterations and Additions to Buildings.*—The following works are the more important carried out under this heading:—

- Lock-up, Kalmunai—raising the walls and providing iron gate.
- Hospital, Kalmunai—enclosing grounds with barbed wire fencing.
- Assistant Government Agent's house, Trincomalee—renewing concrete floor.
- District Engineer's house, Batticaloa—construction of drains.
- Land Registrar's office, Batticaloa—additional room for records.
- Foul Point lighthouse—enclosing verandah, Superintendent's bungalow.
- Kalmunai hospital—cement floors to male ward, latrine, and bathrooms, construction of bathroom and earth closet at dispenser's quarters.

73. *Repair of Bridges.*—The Provincial Engineer reports that the bridges were maintained in a good state of repair excepting the Mohideentanda and Urani bridges, situated respectively on the 33rd and 63rd miles South Coast road. Temporary provision has been made for the passage of ordinary traffic.

The work of rebuilding the Mohideentanda bridge including causeway will shortly be commenced, and plans and estimates for similar works at Urani are in course of preparation.

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

- Section along Trincomalee road towards Anuradhapura.
- Acquisition of site for dispensary, Paddiruppu.
- Permanent marks (concrete pillars) have been erected to fix positions of mooring and guiding buoys, Batticaloa and Kalkudah harbours.
- Repairs of Sinnemuhataweram causeway.
- Construction of culvert, 65th mile South Coast road.
- Ferry boat for Kilivaddi ferry.
- Survey of Lake road, Batticaloa, with a view to designing works for its protection.

*Public Works Extraordinary.*

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

- Quarters for Customs Officers, Kalkudah—walls of stone pointed in cement mortar. Floors of cement concrete. Accommodation: two rooms 12 ft. by 10 ft. with kitchen, store, and earth closet: cost 19 cents per cubic foot.
- Salt store, Kalmunai—a permanent building 60 ft. by 20 ft., 8 ft. in height, capable of holding 225 tons of salt. An approach road has been made and the premises enclosed by a barbed wire fence: cost 15 cents per cubic foot.
- Field hospital, Maha-oya—buildings of a permanent type, except roof of male ward, which is of cadjan. Accommodation for 8 male patients and 4 female patients. Size of wards 28 ft. by 20 ft. by 10 ft. and 20 ft. by 14 ft. by 10 ft., respectively. The walls are of stone in lime mortar and plastered; the buildings are surrounded by verandahs 6 ft. in width; the wards are provided with kitchen, store, bathroom, and latrine accommodation connected by covered ways.
- In connection with this hospital a dispensary and dispenser's quarters have been provided. Accommodation: dispensary 14 ft. by 14 ft., hall 18 ft. by 14 ft., bedroom 14 ft. by 14 ft., kitchen, store, bathroom, and latrine. The building formerly used as a dispensary has been converted into quarters for Medical Officer, and outbuildings consisting of kitchen, store, bath, and latrine constructed, also a stable and carriage house have been provided. A well has been sunk 800 ft. from the main buildings and the premises enclosed with a barbed wire fence: cost of new buildings cents 14 per cubic foot. No drainage has been provided.
- Kalmunai hospital parangi wards—buildings of a permanent type. Accommodation: ward for 24 male patients 85 ft. by 22 ft. by 19 ft., ward for 16 female patients 56 ft. by 22 ft. by 19 ft. The sides of the buildings are dwarf walls with hanging tats. Bathrooms and latrines connected by covered way have been provided: cost 9 cents per cubic foot.



A set of cooly lines, 10 rooms, on the 26th mile, Trincomalee-Kituluttu road, also a similar set on the Maduruoya-Eravur road 80th mile, and one of 8 rooms on the 34th mile North Coast road: cost 12 and 11 cents per cubic foot.

Paddiruppu jetty—70 ft. in length with a tee head 30 ft. in length, 6 ft. wide, was constructed of palu timber with brick abutment: cost Rs. 6 per square foot.

Dispensary and Medical Officer's quarters, Valaichenai—buildings of a permanent type, walls of stone plastered, floors cement and lime concrete. Accommodation: dispensary 14 ft. by 12 ft. waiting room (half walls) 12 ft. by 12 ft., three rooms 12 ft. by 12 ft., kitchen, store, and bathroom and well. The premises are enclosed with a barbed wire fence: cost 14 cents per cubic foot.

Post and telegraph office, Kalkudah—buildings of a permanent type, walls of stone. Accommodation: office 15 ft. by 15 ft., postmaster's rooms two in number each 15 ft. by 12 ft., assistant postmaster's room 15 ft. by 10 ft., kitchen, store, and latrine: cost of buildings 15 cents per cubic foot. Neither fence nor well has been provided.

Permanent sheds for carts 53 ft. by 19 ft. constructed in the Batticaloa Public Works Department yard. Permanent sheds for cement.—two sheds 44 ft. by 20 ft. constructed in the Public Works Department yard, Kalmunai.

Batticaloa jetty.—a timber structure 50 ft. in length with return 22 ft. in length, width 10 ft.: cost Rs. 4.09 per square foot.

Well at permanent dispensary, Paddiruppu.

The following works are in course of construction and substantial progress has been made with them:—

Kanthalai resthouse.

Landing jetty, Kalkudah.

Landing jetty, Trincomalee.

District judge's residence, Batticaloa.

The quarters for police, Batticaloa, and administration block have not been proceeded with by order of Government.

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

Adaptation of Sengalasi resthouse as a dispensary consisting of the rethatching of the buildings with cadjans, conversion of two stables into a store and general repairs.

Renewing flagstaff, Batticaloa, with iron lower mast, timber topmast, yards, and galvanized steel wire rigging.

Additions to District Engineer's quarters, Batticaloa, consisting of the erection of two stables 9 ft. by 12 ft., coachhouse 15 ft. by 10 ft. The buildings are of a permanent type with gravel floors: cost 11 cents per cubic foot. Sunshades and eavesgutters were fixed to the main buildings.

77. *Special Repairs to Buildings.*—The only work appearing in the Supply Bill under this heading was Trincomalee jail. This work was not proceeded with by order of Government.

78. *New Roads.*—The construction of the road to Mutur ferry from the 66th mile, North Coast road, has been nearly completed.

The construction of the road to Toppur from the 60th mile, North Coast road, has made substantial progress, but the work has been delayed owing to the scarcity of labour.

The construction of the South Coast road extension from the 65½ mile has been commenced.

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

Improvements to the Trincomalee-Kandy road consisting of the protection of the first mile with rubble walling, construction of a 6-foot bridge and a double culvert on the 4th mile, a 14-foot bridge on the 7th mile, a 16-foot bridge on the 15th mile, two bridges 12 feet and 6 feet span respectively on the 17th mile, the clearing of the waterways on both sides of the road of jungle growth and accumulation of silt. All the bridges are of a permanent type.

Improvements to the Verugal-Muttur road, consisting of the construction of six stone causeways laid on a bed of clay. The position and length of the causeways are as follows:—

47th mile	9 lines	200 feet in length
47th do.	37 do.	125 do.
47th do.	42 do.	150 do.
48th do.	19 do.	110 do.
48th do.	34 do.	125 do.
48th do.	45 do.	120 do.

The causeways carry a roadway 20 feet in width.

Improvements to North Coast road, Batticaloa to Verugal-ar, consisting of an 8-foot bridge on the 46th mile, a stone causeway 250 feet in length carrying a roadway 16 feet wide at 46 mile 30½ lines. Improvements to the drainage on the 47th mile.

Improvements to the Kalkudah road, consisting of widening the road by filling in and gravelling sides.

Improvement of road from resthouse to the bar, Batticaloa, consisting of the construction of 175 lineal feet of retaining wall on the 2nd and 3rd miles and making good road behind same.

Improvements to the Nilaveli road, consisting of the provision of increased waterway across the road.

The work in connection with the construction of the Periya Muhatuwaram Causeway has been proceeded with.

80. *New Bridges.*—The construction of a bridge, 25 feet span, iron and concrete platform on masonry abutments with paved invert was completed on the 31st mile, South Coast road.

Materials have been collected for the construction of the Mohideentanda bridge and causeway.

It was not found practicable with the other works in hand to proceed with the construction of the bridge and causeway on the 63rd mile.

81. *Repairs to Bridges.*—The renewal of the Koddamunai bridge over the lake at the entrance to the Batticaloa Fort was completed, comprising the construction of an iron girder bridge with iron and concrete platform 50 feet in span, the erection of parapet walls and terminals.

The reconstruction of a portion of the timber bridge 30 feet in length on the 24th mile North Coast road destroyed by fire was also completed.

82. *Land and Buildings to be acquired.*—Under this heading lands for the purpose of erecting police barracks at Batticaloa were acquired.

83. *Miscellaneous.*—

Badulla-Batticaloa road: seven timber bridges were converted into iron and concrete structures.

Repairs to flood damages, South Coast road, consisting of repairs to road, strengthening the Kaliodai timber bridge on the 32nd mile, and protecting the left bank of the river with rubble pitching, were effected.

The survey of the extension of South Coast road beyond Arugam bay to Panama was completed.



The survey of the Pottuvil Mupane road was completed to boundary of Province, length 15½ miles. The survey and plans of proposed trace, Paddiruppu-Divulanai road, commencing at the 16th mile 23 lines on the South Coast road and terminating at the 76th mile 4 lines on the Maduraoya-Eravur road, were completed; a few borings are required before the preparation of detail plans and estimate for the construction of the road.

Dredger and dredging, Batticaloa lake—the works of constructing a dry dock near the Fort, Batticaloa. 85 feet in length, 20 feet in width, with an entrance 18 feet in width and depth of water over the sill at low-water of 4·25 feet, and also of four iron barges, are in progress.

#### NORTH-WESTERN PROVINCE.

##### *Annually Recurrent Works.*

84. *Maintenance of Roads.*—The Provincial Engineer reports that the roads have been maintained in fair order, and on the whole their condition has been improved. The sensitive plant is very troublesome in some parts of this Province. Great care in carrying out works of maintenance is necessary to improve the shape of the roads, and more attention must be paid to the clearing of sides, side drains, and the drainage of the roads.

The Akkaraipattu road is subjected to an enormous traffic during the St. Anna's festival, and if a good road is to be maintained it is necessary to practically reconstruct a considerable portion of this road. The estimated cost of the necessary work is Rs. 39,800.

85. *Inland Navigation.*—The Provincial Engineer reports that the canals have been maintained in fair order, though difficulty is experienced in portions by boats attempting to pass each other during the dry season.

86. *Repairs to Buildings.*—The usual repairs have been effected and the Provincial Engineer reports the buildings are in good order.

87. *Additions and Alterations to Buildings.*—The principal works carried out under this heading were—

- The erection of two new pumps at the Residency.
- The erection of a prisoner's dock at Police Court, Kurunegala.
- The construction of a ceiling to the cell adjoining the hospital, Puttalam jail.
- The erection of a lightning conductor at the powder magazine, Puttalam.
- Enlargement of the quarters for the second clerk, Chilaw Kacheheri.
- Erection of ceilings to the condemned cells, Chilaw jail.
- The erection of a lightning conductor at the powder magazine, Chilaw.

88. *Repairs of Bridges.*—The Provincial Engineer reports that all the bridges have been maintained in good order. The old timber structures are gradually being replaced by iron and concrete structures.

##### *Public Works Extraordinary.*

89. *New Works and Buildings.*—The following works were completed :—

- Nikaweratiya post office.
- Approach road to District Engineer's quarters, Chilaw.
- Cooly lines (six rooms) on the 6th mile Chilaw-Wariyapola road and also at Tonigala on the Kurunegala-Puttalam road : cost 13·3 cents per cubic foot.
- Public Works Department store, Puttalam : cost 19 cents per cubic foot.

The following works are in hand :—

- Lock-up and police station, Marawila—completion delayed pending acquisition of land.
- Public Works bungalow and store, Chilaw—this work should have been completed by the contractor during the year; it is now to be completed departmentally.
- Land Registry Office, Kurunegala.
- Court house, Puttalam.

The construction of a new power magazine at Kurunegala was postponed, pending the collection of further information and the preparation of the necessary plans and estimates to meet the increased accommodation required.

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

- Improvements to Chilaw Kacheheri, consisting of the erection of timber (lunumidella) ceilings.
- Improvements to Assistant Government Agent's quarters, Chilaw, consisting of cement flooring and fitting bars to windows.
- Additions to Dandugama hospital and medical officer's quarters consisting of sinking a well.
- Additions and improvements to salt inspector's quarters, Puttalam, consisting of a coachhouse, cattle shed, and dry-earth closet and drainage round buildings.
- Additions and improvements, Puttalam post office, consisting of an additional room and verandah and the enlargement of the office room.
- The work of converting the old Treasury building, Puttalam, into Shroff's quarters is nearly completed.

91. *Special Repairs to Buildings.*—The woodwork of the medical buildings was painted during the year.

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

- Parasadi-Mundel road—erection of 8 feet span bridge with brickwork abutments and approaches track-metalled.
- Metalling the Dandugama-Dummalasuriya road.
- Track-metalling 1½ mile of the Toppu-Battulu-oya road.
- Improving the service road, two small bridges 8 feet and 4 feet span with masonry abutments were completed.
- Puttalam-Battulu-oya road—the road was raised on the 11th, 12th, 13th, and 14th miles and the metal broken for track-metalling.

The following works were in hand :—

- Toppu to Dankottuwa—this road having been taken over from the District Road Committee during the year, metalling the surface was commenced, but the labour supply being deficient it was not completed.
- Extension of Coast road north of Puttalam—difficulty was experienced on this road owing to the scarcity of labour.

93. *New Bridges.*—The foot bridge, Uachehikali canal, has been completed.

Good progress has been made with the iron bridge over the Battulu-oya. This bridge consists of four 80 feet spans of wrought iron lattice girders carrying a roadway 14 feet in width. The



abutments are of brickwork and cement and the piers are of cast iron cylinders filled in with cement concrete. The bricks have been made departmentally near the site.

The work of raising the Kudupitiya-oya bridge has been postponed pending the transport of the heavy materials over it required for the Batulu-oya bridge.

The work at the Palavi bridge, 2nd mile Akkaraipattu road, has been suspended, the amount of the money voted being insufficient to complete this work.

94. *Repairs of Bridges.*—The rebuilding of the abutment Kaymal bridge has been completed.

The work required in the repair of the Palavi embankment and bridge and the groynes at the Dedura-oya bridge has been proceeded with, but not yet completed.

95. *Lands and Buildings to be acquired.*—A site was acquired for the erection of a mortuary at Dandugama.

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

Repairs to Kalpitiya jetty.

Boat for Puttalam lake.

Sinking two wells at Nikawewa and one at Bamanakotuwa.

Repairing flood damages Padeniya-Siyambalagama road.

The following works are in hand :—

Repairs of flood damages, Chilaw-Wariyapola road. This has been completed with the exception of two culverts.

The conversion of two timber bridges 18 feet span on the 2nd mile Puttalam-Chilaw road into iron ones is nearly completed.

#### NORTH-CENTRAL PROVINCE.

##### *Annually Recurrent Votes.*

97. *Maintenance of Roads.*—The Provincial Engineer reports that the roads generally have been maintained in good order, and a marked improvement is noticeable in the condition of some of them.

More bridges are required on the Horowapotana towards Vavuniya road in order to render it passable during heavy rains.

The road from Kal-oya to Galgodahena—increased waterway is required on the 85th mile for the more rapid discharge of flood water from the Yan-oya.

The Mirisgoni-oya to Galkandamadu and Migaswewa to Kituluttu roads require more metal to admit of the road surface being maintained in a satisfactory condition throughout the year.

98. *Repairs to Buildings.*—The permanent buildings are in good order.

99. *Additions and Improvements to Buildings.*—No works of any importance have been carried out under this heading. Minor additions and improvements have been made to Maradankadawela dispensary, Habarana dispensary, Anuradhapura jail.

100. *Repairs to Bridges.*—The necessary repairs have been effected and the bridges kept in good order.

101. *Miscellaneous.*—Under this heading the following works have been completed :—

Well at Mineri, iron bridge 82nd mile, Trincomalee road.

##### *Public Works Extraordinary.*

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

Enclosing cemetery, Anuradhapura.

Quarters for Public Works Department clerk, Mihintale.

Quarters for dispenser, Maradankadawela.

Overseer's quarters and cooly lines at Mineri.

Stores and blacksmith's shop, Mihintale.

The following works are in hand :—

Archæological Commissioner's house, Anuradhapura.

New court-house, Anuradhapura.

Medical officer's quarters, Mihintale.

Cooly lines, Anuradhapura.

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

Converting reading room, Anuradhapura, into a museum store.

Additions to Revenue Officer's quarters, Topawewa.

Fence round District Engineer's quarters, Maradankadawela.

Stables for District Engineer, Maradankadawela.

Roofing cooly lines, Rambewa.

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

Repairing tiled roofs, Anuradhapura.

Anuradhapura hospital.

Mihintale hospital.

Pingo shed, Anuradhapura jail.

In repairing the tiled roofs at Anuradhapura the lower tiles, owing to their porous nature, have been soaked in a mixture of cement and tar, which appears to have been attended with successful results. A good deal of the trouble experienced in the shifting of tiles would probably be obviated by reducing the pitch of the roofs. I see no reason why in ordinary cases a rise of one-quarter the span should not be found amply sufficient.

105. *New Roads.*—Habarana-Topawewa road. Good progress has been made with the extension of this road during the year in view of the considerable difficulty experienced in collecting labour. It is anticipated that the road as far as Topawewa will be completed during the year 1901.

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

Improvements to the Vavuniya-Horawapotana road consisting of the erection of an iron bridge 30 feet span and one double culvert.

Improvements to the Kalaoya-Galgodahena road consisting of raising low places washed by flood waters.

Improvement to the Rambawa-Galkandamadu road consisting of more extensive metalling.



The following works are in hand :—

Improvement to Maradankadawela-Habarana road 13th, 14th, and 15th miles. Good progress has been made with this work during the year.

Improvement to Mirisgoni-oya to Galkandamadu, consisting of raising certain portions of the road, laying foundations, and metalling, has made fair progress during the year.

The improvement of the road from Galkulam through Mihintale to Rambewa has not been proceeded with, by order of Government.

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

Two bridges on the North-Central road, 93rd and 105th miles, Mihintale district.

Two bridges on the Vavuniya-Horowapotana road.

Two bridges on the Kalawewa-Galawela road.

Four bridges on the North-Central road.

Two bridges on the Mirisgoni-oya-Migaswewa road.

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

Timber bridges have been converted into iron and concrete structures on the 63rd mile Kaloya-Galgoda-hena road, 1st mile Kekirawa-Kalawewa road, 46th mile Puttalam-Anuradhapura road, nine bridges on the Anuradhapura-Siyambalagama road, two bridges on the 50th and 51st mile Yakwewa road.

Sanitary improvements of the road-side bazaars, consisting of the construction of side drains, have been carried out at Anuradhapura, Tiripane, Madawachchiya, and Madatugama.

The following works are in hand :—

Metalling road reservations, Market street, Anuradhapura.

Repairs of the Gal-oya well.

#### PROVINCE OF UVA.

##### *Annually Recurrent Works.*

109. *Maintenance of Roads*.—The Provincial Engineer reports that the roads throughout the Province have been maintained in a satisfactory state of repair, with the exception of the Koslanda-Poonagala road, which during the early part of the year caused some trouble through the breaking up of the surface. Considerable difficulty is experienced in the efficient maintenance of the Wellawaya-Tanamalwila road, owing to the extended dry period that prevails in this district; the road has however been improved during the year.

In the Koslanda and Passara districts several landslips have occurred in the hill roads, but these were promptly removed and caused little inconvenience to traffic.

The drainage of the roads has been much improved by the uprooting of jungle growth, and the work should be continued.

110. *Repairs to Buildings*.—The Provincial Engineer reports that the buildings have been maintained in a satisfactory state of repair.

111. *Additions and Alterations to Buildings*.—The following works have been carried out :—

Constructing a fireplace in Namunakuli post office.

Altering door and window, Demodara post office.

Fixing iron bars to windows in registrar's office, Badulla Kachcheri.

Cementing floors, Alutnuwara hospital.

Removal of pinnacles, Badulla hospital.

Cementing floor of operating room, Badulla hospital.

Ceiling rooms of medical officer's quarters, Haputale.

Additional window to kitchen of Haputale hospital.

112. *Repair of Bridges*.—The necessary repairs have been effected. The Provincial Engineer reports that all the bridges are in a fair state of repair.

113. *Miscellaneous*.—Under this heading the following works were executed :—

Survey of site for proposed bridge over the Madulla-oya.

Acquisition of land on the El-Teb estate on the Passara-Madulsima road for cooly lines.

Removal of landslips and repair of flood damages on the Taldena and lower Badulla roads.

Erection of wire shoot for conveying mail bags across the Kumbukkan-oya at Nakkala.

Re-erection of bridge over the Loggal-oya on the road from Taldena to Uva estate.

##### *Public Works Extraordinary.*

114. *New Works and Buildings*.—The following works were completed :—

Quarters for District Engineer, Passara, at a cost of 19 cents per cubic foot.

Post Office, Haputale, at a cost of 21 cents per cubic foot.

Permanent ward, Medagama hospital, with bathroom and latrines, at a cost of 20 cents per cubic foot.

Construction of reservoir, Bandarawela water supply.

Powder magazine, Koslanda.

Post and telegraph office, Demodara, at a cost of 21 cents per cubic foot.

Three sets of cooly lines at a cost of 19 cents per cubic foot.

The erection of a new police station, Bandarawela, has made considerable progress and will be ready for occupation at an early date.

115. *Alterations and Additions to Buildings*.—The necessary alterations and fixing of record shelves at the Badulla Kachcheri have been completed.

116. *Special Repairs to Buildings*.—The following works were completed :—

Repairs to dispensary and lock-up, Haldummulla.

Repairs to the roof of the Superintendent of Surveys' quarters, Badulla.

Repairs to Haldummulla post office.

Repairs to roof of post office, Passara.

117. *New Roads*.—The Bandarawela-Ampitiyakanda gap road to Windy Corner, a length of six miles, has been completed. The width including side drains is 16 feet on sidelong ground and 18 feet in double cutting and on embankments. Pitched foundations have been laid over the formation width of 12 feet, and the track has been metalled over a width of 10 feet. The bridges and culverts are of a permanent character.



118. *The Leangahawela to Windy Gap road* (grant-in-aid) 2 miles in length, and which is a continuation of the above-mentioned road and of similar construction, has been completed. The average cost of construction of the above roads, excluding compensation for lands, was Rs. 18,433 per mile.

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

- Parapets and iron railings along Lemastota-Haldummulla road.
- Improvement of the Passara-Mupane bridle-path, including concreting stream crossings and rebuilding bridge on the 4th mile.
- Improvement of the Wellawaya-Mupane road, including metalling, conversion of five timber bridges into iron ones, increasing the span of the bridge on the 10th mile to 30 feet.
- Improvement of Badulla-Taldena road, including increasing the size of the side drains, building culverts, conversion of timber bridge on the 9th mile, laying pitched foundation for roadway where necessary.
- Improvement of Wellawaya-Tanamawila road, including erection of a 20 feet span bridge on the 49th mile, constructing additional culverts and metalling portions of roadway.
- Improvement of the Badulla-Bandarawela road, including widening portions and the erection of four new bridges and two culverts of a permanent type.
- Improvement of Kumbalwela-Namunakuli road including widening portions, building parapet walls, and lengthening culverts.
- Improvement of Badulla-Batticaloa road including rebuilding three culverts and erecting iron railings.
- Provision of passing places on the Namunakuli-Passara road by widening portions of same.

The improvement of the Mupane-Potuvil road has been postponed pending the preparation of the necessary plans and detail estimates.

120. *New Bridges.*—The construction of a horse bridge over the Kumbukkan-oya at Nakkala has been proceeded with, but its completion delayed by the bad nature of the foundations met with and the floods in the river.

The construction of a horse bridge over the Hulanda-oya has been abandoned in favour of the alternative project for deviating the Passara-Mupane bridle road.

121. *Lands and Buildings to be acquired.*—The following acquisitions have been completed :—

- Quarry on the 2nd mile Badulla-Bandarawela road.
- Premises for District Engineer's clerk, Badulla.
- No site has yet been selected for dispensary at Bandarawela.

122. *Miscellaneous.*—The following works under this heading have been completed :—

- Survey and sections of road from Taldena to Alutnuwara, 15 miles in length.
- Survey and sections of the Bibile-Medagama and Obeyagoda roads, 15½ miles in length.
- Construction of culverts, Nuwara Eliya road.
- Construction of cement drains, Bandarawela bazaar.
- The preparation of longitudinal and cross sections along the Mupane-Potuvil road to boundary of Province with a view to its improvement, length 20 miles.
- Conversion of timber bridges into iron ones, five on the Badulla-Halpe road in the Koslanda district and three on the Bibile-Medagama road in the Passara district.
- Survey and sections of the Bibile-Alutnuwara road, 11½ miles in length.

The construction of protective works at the springs at Bandarawela with a view to the improvement of the water supply is in progress.

#### PROVINCE OF SABARAGAMUWA.

##### *Annually Recurrent Works.*

123. *Maintenance of Roads.*—The roads have been maintained in a very fair state of efficiency. A marked improvement has been effected in the condition of the Avisawella-Ratnapura and Ruanwella-Veyangoda roads.

124. *Repairs to Buildings.*—The Provincial Engineer reports that the buildings are in a fair state of repair with the exception of the male ward, Kegalla hospital, and the dispensary and outbuildings, Kolonna hospital and Godakawella.

125. *Additions and Improvements to Buildings.*—The following works have been carried out under this heading :—

- Yatiantota post office—additional accommodation for the Postmaster.
- Medical Officer's quarters, Balangoda—enclosing portions of the verandahs.
- Ratnapura Hospital—cement floor and drains to mortuary.

126. *Repairs to Bridges.*—The bridges have been maintained in a good state of repair. A considerable number of timber platform bridges still exist, which should be replaced with iron and concrete structures.

##### *Extraordinary Public Works.*

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

- Cooly lines and overseers' quarters on the 48th and 53rd miles, Avisawella-Ratnapura road.
- Balangoda hospital—erection of two wards and medical assistant's quarters.
- Jailer's quarters, Avisawella.

The following works are in progress :—

- Bulatweldeniya bungalow on the Veyangoda-Ruanwella road.
- Balangoda hospital—erection of nurses' quarters.
- Avisawella District Engineer's clerk's quarters.
- Kegalla new Land Registry Office.

Little progress has been made with the new post and telegraph office; the site selected was entirely unsuited for the erection of such a building except at a very heavy cost. The desirability of selecting another site has been urged upon Government and the work is in abeyance.

128. *Alterations and Additions to Buildings.*—The following work has been completed :—

- Ratnapura—additions to Kachcheri.

The extension of the hospital at Avisawella has made good progress, though the work was considerably delayed early in the year by a change in the site, the one originally selected being required for the railway extension.



129. *Special Repairs to Buildings.*—The following works were completed :—

Ambanpitiya District Engineer's bungalow including repairs to roof, boundary fence, drains and buildings generally.

Avisawella jail—relaying drains and cementing drains and cementing floors.

130. *New Roads.*—The approach road to the burial ground attached to Karawanella hospital has been completed. Better progress has been made with the construction of the Madampe-Hambantota road, but labour is very difficult to obtain in the required numbers in this part of the Province.

131. *Additions and Improvements to Roads.*—A commencement has been made with the construction of approach road and causeway at Algoda over the Sitawaka-ganga.

132. *New Bridges.*—The construction of a bridge on the Ruanwella-Veyangoda road has been completed. The bridge over the Maha Ella, 3rd mile Nambapana road, 50 feet span, is practically completed, the approaches only remaining to be finished. The bridge over the Hulanda-oya, Madampe-Hambantota road, 80 feet span, has been nearly completed.

133. *Repair of Bridges.*—The works connected with the replanking of eight bridges in the Kegalla District, and the rebuilding of the bridge on the 89th mile Ratnapura-Halpe road have been in hand, but are not yet completed. It is anticipated that both these works will shortly be finished.

134. *Miscellaneous.*—The following timber bridges have been converted into iron ones, viz., on the Veyangoda-Ruanwella road four, on the Pelmadulla-Gilgarron road two, on the Rakwana-Morawaka road three.

The following works are in hand :—

Drainage at Rambukkana.

Improvement 18½ mile Rambukkana-Dolosbage road.

Surveys and reports have been made on the proposal to construct a road from Badureliya to Kukulugama along a route a great part of which is several feet under flood level; the Madampe-Hambantota road extension; the Madampe Pass deviation; the Balangoda-Chetnole road.

#### WORKS CHARGEABLE TO LOANS AND OTHER FUNDS.

135. *Duplication of 20-inch water main from Labugama to Colombo.*—The duplication of the 20-inch water main from Henpitiya to Wagga, a distance of 10½ miles, being a part of the 25 miles of 20-inch main between Labugama and Colombo, was completed on the 20th of January, and has been in constant use since that date.

Upon the completion of the above work steps were at once taken to make the necessary alterations in the old main throughout the length duplicated in order to admit of it being scraped. The alterations involved the removal of 50 sharp bends and the insertion of six hatch boxes or door pipes to admit of the scraper being inserted and removed. This work was completed in July, and no bend exists on the portion of the main duplicated of less radius than 10 feet.

The portion of the old main has been thoroughly scraped by scrapers supplied by the Glenfield Company, Kilmarnock; the operation is of a simple nature, the scrapers being propelled by the water pressure in the main, and by an ingenious arrangement of the blades no difficulty is experienced in their passage through valves chambers, past junctions, or across the space left between two adjoining pipes the ends of which do not abut closely together. The speed of the scraper is governed by regulating the valve on the main admitting water behind the scraper.

It is estimated that upwards of 10 tons of incrustation has been removed from the 10 miles of old main in addition to some 14 lb. of lead and a heavy piece of timber.

The maximum discharging capacity of the main between Labugama and Colombo has been increased to 2,900,000 gallons per 24 hours; that is to say, the above works have increased the delivery by 500,000 gallons per diem.

136. *New Passenger Jetty, Colombo.*—The passenger jetty approach road together with the boatman's house and boat slip mentioned in my last annual report has been satisfactorily completed.

I regret the Tea Kiosk, which projects in an unsightly manner into the new approach, has not yet been removed. Upon its removal I hope that an important improvement will be carried out by widening the lane between it and the P. & O. Co.'s offices and forming a thoroughfare from York street to the present coal sheds.

137. *Nuwara Eliya Waterworks.*—This project has been satisfactorily completed, including the erection of public fountains. The pressure in the mains admit of the water supply being carried to the highest houses within the district of the Board of Improvement. As building operations extend it will doubtless be necessary to extend the water mains, which have been laid with this probability in view. The construction of a service reservoir on high ground between the Grand Hotel and Nanu-oya corner will be required, if the mains are extended along both sides of the lake. This reservoir will serve the dual purpose of equalizing the pressure and admitting of the water being shut off, if necessary, from a portion of the town near the source, without depriving the remaining portion of its supply.

138. *Sanitation of Kandy.*—As soon after my return from leave as practicable the project for the sewerage of Kandy received my attention. The plans and sections have been prepared, but I regret to say that more pressing matters requiring the attention of the Department have prevented the completion of the report and estimate.

139. *Ragama Camp.*—Under the head of Plague Precautions a sum of Rs. 9,357.37 has been spent in the completion of the following works :—

In the sinking of a new well at the foot of the hill in Camp No. 1, the one in the field having to be abandoned owing to the water being found to be unfit for drinking purposes. A steam pump attached to this well supplies the necessary water to Camp No. 5.

Three boutiques, each 10 feet by 10 feet, with galvanized corrugated iron roofs and sides have been erected on the strip of ground opposite Camp No. 1.

Brick surface drains rendered in cement have been built round the kitchens of all the Camps, and a drain alongside the road leading to Camp No. 1 has also been constructed.

Arrangements have been made to permit of the rain water from the galvanized iron roofs of the sheds in Camps Nos. 3 and 4 being conveyed to covered storage tanks.

Two pipe culverts have been built opposite the entrance gate to Camp Nos. 1 and 5.



The sheds comprising Camps Nos. 1 and 2 have been attended to, some of the posts which were found to be unsound being removed.

The flooring platforms of Camps Nos. 3 and 4 have been frequently removed owing to the ravages made by white ants.

The roads in connection with the Camps have been kept in repair.

A further sum of Rs. 15,821.11 has also been spent in the completion of the following :—

In laying a water service from the iron storage tanks to Camps Nos. 3 and 4. A new storage tank with a capacity of a thousand gallons has also been erected.

Small hand pumps have been fixed to admit of the water from the covered storage tanks in Camps Nos. 3 and 4 being drawn for use.

Service pipes of an inch and a quarter in diameter have been laid to the baths in Camps Nos. 3 and 5.

The floors of all the sheds in Camp No. 4 have now been laid in brick and rendered in cement, replacing the original flooring of wooden platforms.

Camps Nos. 3 and 4 have been drained, half-round brick drains rendered in cement being built round them.

A new bath similar to those already built has been constructed in Camp No. 4, and water laid on to it from the iron storage tanks. This bath became necessary owing to division of the Camp into sections, each section making a small camp in itself.

The floor of one of the latrines in Camp No. 3 was taken up and relaid.

The cadjan roofing of the three main sheds in Camp No. 3 has been replaced with galvanized corrugated iron. Two sheds in Camps Nos. 1 and 2, one in each, have been thoroughly repaired and recadjanned.

The segregation sheds, watchers' sheds, mortuaries, and latrine in Camps Nos. 1, 2, 3, and 4 have been repaired and recadjanned.

The Talagolla hospital has also been attended to, all the sheds being repaired and recadjanned and a new mortuary erected.

A water service has been laid on to this hospital, a hand pump being fixed to the well at the foot of the hill, and a reservoir (an iron tank) with a capacity of 500 gallons fixed on brick pillars at the summit and within easy reach of the several wards.

During the latter part of November work was commenced in connection with providing accommodation at Ragama for prisoners-of-war. Camps Nos. 3 and 4 being taken over for this purpose, and a portion of No. 2 for quarters and offices for the officers in charge.

140. *Elephant Pass Causeway*.—This causeway, referred to in my last annual report, has been completed and maintained during the year.

141. *Customs Premises*.—Under this heading the rearrangement of two cranes on the Prince of Wales's jetty, and additions to the grain sheds at Kochchikada have been carried out. The works connected with the extension of the jetties at Kochchikada and the construction of two jetties off the northern quay of the premises occupied by the Ceylon Wharfage Co. have been commenced.

142. *Water Supply Projects*.—During the early part of the year Mr. R. W. Smith completed a project for the water supply of Rambukkana and made some progress with the preparation of a project for the water supply of Kurunegala. Mr. Smith was removed to Diyatalawa in May in connection with the erection of the camps for the prisoners-of-war, which occupied the whole of his time until going on leave in November.

143. *Works at Mutwal*.—Various works at the Mutwal jail and to buildings in the vicinity of the new docks, which were rendered necessary owing to the progress of the Harbour and Dock works, were carried out.

144. *Plague Camps*.—Various minor works were carried out at Galle and other places in connection with the Plague Camps.

145. *The Camp for Prisoners-of-War at Diyatalawa*.—Instructions were received on the 2nd May to erect a camp for the reception of Boer prisoners at Diyatalawa. The site selected is situated on undulating ground below the railway station at Diyatalawa.

Accommodation was originally proposed to be provided for 2,500 prisoners; this was subsequently increased to 4,500.

The works included the erection of huts for prisoners with the necessary kitchens, bathing sheds and outbuildings, quarters for the staff with offices and stores, hospitals, the construction of a road and tramway and the necessary works for securing an adequate supply of water, and electric lighting.

The huts for the prisoners are 120 feet wide and about 13 feet high, built of galvanized iron with substantial framing of rolled beams and provided with wooden floors. Contracts were let to the Colombo Commercial Co., Messrs. Walker, Sons & Co., and Messrs. Whittall & Co., for the erection of some of the huts, but the greater portion of the work was carried out at the Government Factory. The kitchens and outbuildings were of galvanized iron with concrete floors. The bathing sheds were erected of wattle and daub with concrete floors. The latrines are of the rail type on the bucket system, erected of galvanized iron with concrete floors. The buckets are removed by tram to the pitting ground situated about half a mile from the camp.

The quarters and offices for the staff are of galvanized iron lined with wood and provided with wooden floors. The stores are of galvanized iron with concrete floors. The hospitals are of similar construction to the buildings occupied by the staff.

A metalled road has been constructed from the railway station to the camp. A light tramway has been laid from the store to the ration sheds and from the camp to the pitting ground.

The water is obtained from streams on the hill side flowing through the Roehampton and Kahagalla estates above the railway; upon these were constructed suitable intakes. Nearly eight miles of wrought iron piping have been laid varying in size from  $\frac{3}{4}$  inch to 3 inches in diameter. A break of pressure tank was erected near the railway station and four covered service tanks, each having a capacity of 25,000 gallons, were constructed in close proximity to the camp.

The whole of the camp and staff buildings as well as some of the buildings occupied by the Military guard were lighted by electric light. This work was carried out by Messrs. Boustead Bros. of Colombo.

The whole of the camp is enclosed by a barbed wire fence nearly two miles in length.

Two hundred and fifty-nine buildings have been erected, having a floor area of 271,551 sup. feet. Upwards of 7,000 tons of material had to be transported to the site.

The camp was first occupied in August. The whole of the accommodation for 4,500 prisoners and staff together with contingent works were practically completed in October, or five months after receipt of notice that an encampment was required.



The work at the camp was under the immediate supervision of Mr. R. W. Smith, District Engineer, whilst the construction of the huts and furniture was under the immediate supervision of Mr. G. H. M. Hyde, Acting Factory Engineer, and I desire to publicly acknowledge the valuable assistance these officers gave me and the zeal and energy with which they carried out their respective duties.

146. *Camp for Prisoners-of-War at Ragama.*—The site selected for the camp and staff quarters was that known as Plague Camps Nos. 2, 3, and 4. The buildings existing consisting of cadjan sheds in Camp No. 2; corrugated iron sheds with cadjan sides in Camps Nos. 3 and 4, those in camp No. 4 having concreted floors.

The sheds in Camps Nos. 3 and 4 were sufficient for the accommodation of 300 prisoners, and only required the floors strengthening, roof covering with cadjans, and minor alterations to adapt them to the purpose required.

These two camps were surrounded by a barbed wire entanglement 3,600 feet in length, six feet in height. This fence was constructed of two lines of posts carrying horizontal wires and placed seven feet apart; between these wires were fixed both horizontally and diagonally.

Within the camps thus enclosed the following additional buildings were erected:—

			ft.	in.		ft.	in.
(a)	Two open mess sheds	...	52	0	×	32	0
(b)	Four latrines	...	10	0	×	6	0
(c)	Hospital attendants' quarters	...	20	3	×	12	6
(d)	Fouled linen store	...	10	0	×	6	0
(e)	Hospital kitchen	...	36	3	×	10	6
(f)	Hospital servants' quarters	...	36	3	×	10	6
(g)	Store for Messrs. Lewis, Brown & Co.	...	20	0	×	16	0

The existing kitchens were fitted up with camp cooking ranges and the latrines were fitted up on the pail system with urinals. The kitchen and urinals have concrete floors and the mess sheds brick floors.

The buildings erected outside the enclosures were—

			ft.	in.		ft.	in.
(a)	Two ration stores	...	30	3	×	12	0
(b)	Quartermaster's quarters	...	45	0	×	12	0
(c)	Medical officer's quarters	...	40	0	×	12	0
(d)	Dispenser's quarters and dispensary	...	40	0	×	12	0
(e)	Servants' quarters	...	36	0	×	10	0
(f)	Commandant's quarters	...	30	0	×	12	0
(g)	Commandant's office	...	15	4	×	12	3
(h)	Assistant Commandant's quarters	...	30	0	×	12	0
(i)	Commandant's servants' quarters	...	26	0	×	10	0
(j)	Staff mess room	...	27	0	×	24	0
(k)	Guard room and prison	...	30	0	×	20	0
(l)	Post and telegraph office	...	54	0	×	16	0
(m)	Two kitchens	...	12	0	×	10	0
(n)	Three latrines	...	10	0	×	6	0
(o)	One bath	...	12	0	×	10	0
(p)	One segregation shed	...	16	0	×	12	0

The whole of the above buildings were of corrugated iron, the living rooms being provided with boarded floors and the walls lined with wood.

The existing buildings in Plague Camp No. 2 were recadjanned and made suitable for occupation as quarters for police and servants and as stores.

Drains were constructed of brick and cement for the conveyance of fouled water.

An incinerator was erected in Camp No. 2 for the disposal of night soil.

An adequate supply of water is obtained from a well near the railway, the water being pumped up into iron tanks on high ground and distributed throughout the camp by wrought iron piping connected with standposts.

A new road has been constructed leading from the Colombo-Ragama road to the camp.

The necessary tables, forms, and shelving were provided and fitted up in the several huts and stores.

The lighting of the camp was provided for by oil lamps fixed on posts near the barbed wire enclosure, at distances of about 20 yards apart.

The work was commenced on the 26th November, 1900, and completed ready for occupation by the first week in January, under the immediate supervision of Mr. G. H. M. Hyde, Acting Factory Engineer, assisted by the District Engineers Messrs. Jayawardene and Ludovici.

The approximate expenditure has been Rs. 50,000.

#### GOVERNMENT FACTORY.

147. This branch of the Department was under the immediate supervision of Mr. E. C. Davies, Factory Engineer, to the 6th April, when Mr. Davies left on long leave and was succeeded by Mr. G. H. M. Hyde, under whose immediate supervision assisted by Mr. Jayawardene the work at the Factory has since been carried on.

Particulars of the work done during the year will be found in the Factory Engineer's report annexed, on reference to which will be seen that, in spite of the very heavy demands made on this branch in connection with the erection of camps at Diyatalawa and Ragama for Boer prisoners-of-war, the ordinary work of the Department has not been neglected; the total expenditure of this branch reached the sum of Rs. 791,991, being an increase of Rs. 539,211 over the expenditure in 1897.

In Appendix 5 will be found particulars of the several bridges constructed at the Factory during the year. In Appendix 6 a statement of the distribution of Factory Expenditure under the several classifications for the years 1899 and 1900; and in Appendix 7 the classification of expenditure on the several classes of work during the years 1898 to 1900.

#### COLOMBO WATERWORKS.

148. *Labugama Reservoir.*—The rainfall registered at Labugama during the year amounted to 173.08 inches, rain falling on 223 days. The maximum rainfall during twenty-four hours occurred on the 15th October when 6 inches were registered. The water in the reservoir was 2 feet  $\frac{1}{2}$  inch below overflow level on the 21st July; the sluices were opened and the water rose in the reservoir, attaining



a maximum height of 1 foot 1 inch above overflow level. Maximum depth from which water supplied to the town was drawn from the reservoir was 11 feet below overflow level; the lowest water level reached being 4 feet 1 inch on the 4th May.

The reservoir and works in immediate connection therewith have been satisfactorily maintained. The catchment area boundary was recut, a path 6 feet wide being cut all round (a distance of nine and a half miles).

149. *Main Pipe Line.*—The pipe line has been satisfactorily maintained, a constant flow being obtained throughout the year, with the exception of the following dates:—From 12 P.M. to 4.30 A.M. 11th January, and from 3 P.M. 3rd February to 4.15 A.M. 4th February. The cause on the first occasion was due to a leak on the main line, and the second was caused during the testing of Maligakanda reservoir.

150. *Maligakanda Service Reservoir.*—This reservoir has been maintained in a satisfactory state of repair without any exceptional expenditure.

151. *Distribution Works.*—The distribution works were maintained in a satisfactory state of repair. During the year three new standposts or street fountains were fixed and one was removed, the total number in use being 691. 103 new services for domestic supply were constructed, making a total number of 2,935. 53 meters were fixed for services used for other than domestic purposes, 29 meters were removed, making a total of 181 meters in use. 351 yards of 3-in. pipe for extended services were laid during the year.

The removal of the 15-in. main from Tanque Salgado street to Uplands new road *via* Alutmawata, necessitated by the construction of the new graving dock, was commenced on July 10. This work included the removal of 867 yards of 15-in. pipe and 180 yards of 10-in. pipe, and the relaying of 195 yards of 18-in. pipe and 708 yards of 15-in. pipe. In addition to the above 275 yards of 3-in. pipe were used to maintain the water supply to the district, which would otherwise have been cut off by the removal of the 15-in. main. This work was completed on November 15.

152. *Consumption of Water.*—In Appendix 8 will be found a tabular statement of the consumption of water during each month in the year. In Appendix 9 will be found a monthly return of water supplied by meter in each ward during the year.

It will be seen that throughout the year, with the exception of July, the maximum daily consumption each month exceeds the maximum discharging capacity of the Labugama main—viz., 2,900,000 gallons per diem, necessitating the water being shut off from 8 P.M. to 4 A.M. during the following periods:—

January 8 to 18 and 29 to 31.

February 1 to 15.

March 29.

April 5 to 15.

The average consumption of water per head per diem, taking the population at 150,000, was for all purposes at the rate of 18 gallons; deducting the metered supplies reduces the rate to 16 gallons.

The rate of consumption cannot be considered extravagant, and in view of the fact that the constant system of supply cannot, under existing circumstances, be maintained, and that the built area and population of the City are annually increasing, the importance of completing the duplication of the Labugama-Colombo water main and other works referred to in my last annual report, paragraph 143, cannot be too strongly urged.

153. *Quality of Water.*—The results of the monthly analyses will be found in Appendix 10.

Mr. Campbell, Inspector of Waterworks, left on long leave in March and was absent the remainder of the year. His duties were temporarily performed by Mr. H. T. Creasy, District Engineer, and Mr. J. Campbell, jun., Assistant Inspector.

#### STAFF.

154. On the formation of the Irrigation Department Mr. H. T. S. Ward, Assistant Director of Public Works, was appointed Director of Irrigation and left this Department after 24 years' service; he has been succeeded by Mr. F. W. Johnson. Messrs. M. Sanmugam and N. M. Walker, District Engineers of Mullaitivu and Vavuniya, also left the Department and joined the Irrigation Department.

Messrs. A. Cannappen and P. Hubert, Clerks, also left the Department and joined the Irrigation Department.

In addition to the foregoing the following officers have been on leave:—

Name.	Commencement of Leave.	Period.	Returned to Duty.
Mr. H. B. Christie	... March 1, 1900	... 7 months and 21 days	... October 22, 1900
" H. E. H. Hayes	... April 25, 1900	... 4 months	... September 24, 1900
" A. W. Taffs	... June 25, 1900	... 1 year	... Absent
" C. F. Emerson	... March 1, 1900	... 7 months and 4 days	... October 5, 1900
" A. Clementi Smith	... February 1, 1900	... 11 months	... Absent
" A. de Courcy Carson	... February 1, 1900	... 11 months	... do.
" E. C. Davies	... April 6, 1900	... 1 year	... do.
" T. H. Chapman	... September 5, 1900	... 1 year	... do.
" T. R. Ward	... November 10, 1900	... 11 months and 21 days	... do.
" R. W. Smith	... December 6, 1900	... 4 months	... do.
" J. Campbell	... March 8, 1900	... 8 months	... do.
" G. Waddell	... April 28, 1899	... 1 year and 6 months	... November 2, 1900
" G. S. Goodman	... June 26, 1899	... 1 year and 3 months	... September 24, 1900
" F. A. Cooper	... May 16, 1899	... 9 months and 11 days	... February 26, 1900
" L. Creasy	... November 29, 1899	... 3 months	... February 28, 1900
" C. A. Lovegrove	... July 2, 1899	... 10 months and 16 days	... May 18, 1900

On the return of Mr. Francis A. Cooper in February he resumed his duties as Director of Public Works, and Mr. H. T. S. Ward his duties as Assistant Director of Public Works, till his leaving the Department in May, 1900, to take up the duties of Director of Irrigation. Mr. C. A. Lovegrove acted from 18th May to 18th June as Assistant Director of Public Works, when Mr. F. W. Johnson was appointed to the vacant office.

Mr. H. S. Jacques resigned in March, 1900, and Mr. P. Gooneratne left the Department in November, 1900, upon his appointment as Superintendent of Minor Roads in the Kalutara District, and Mr. De Motte left in July accepting an appointment under the Provincial Road Committee, Central Province. Mr. Dassenaik left accepting an appointment in the Colombo Municipality in September.



It will be seen that during the year five engineers, one inspector, and two clerks left the Department, and I regret to say that up to the end of the year three vacancies in the Engineering Branch had not been filled. At the close of the year seven engineers were on leave.

155. The changes that have taken place during the year in the Provincial Officers are as follows :—

*Western Province.*—Mr. A. W. Taffs, Assistant Engineer, Colombo, left on leave in June and was succeeded by Mr. A. de Livera; Mr. Gregson, District Engineer, Kalutara, was succeeded by Mr. C. F. Emerson; Head Overseer Mr. G. F. Buultjens was sent to assist the District Engineer on the Dehiwala flood outlet works; Head Overseer Mr. C. Nathanielsz was sent to assist the District Engineer, Negombo, on the Giriulla-Pasyala road improvement work; Mr. A. Tambiah, District Engineer's Clerk, Negombo, was succeeded by Mr. S. F. Johnpulle, Mr. Tambiah being removed to the Provincial Engineer's office; Mr. A. Cannappen, Provincial Engineer's Clerk, was transferred to the Irrigation Department.

156. *Central Province.*—Mr. W. A. L. Rowland, District Engineer, was removed to Koslanda in February; Mr. L. Creasy returned from leave in March and resumed duties as Provincial Engineer, Mr. Pole Fletcher, Acting Provincial Engineer, resuming duties as District Engineer, Kandy; Inspector Mr. V. Weerasuriya was removed to the Eastern Province; Head Overseer Mr. A. M. Spaar was sent in March to Nuwara Eliya to assist the District Engineer in the Ambawela road construction works; Mr. De Motte, Head Overseer, obtained employment under the Provincial Road Committee, Central Province, in July; Mr. Chapman, District Engineer, Dimbula, left on leave in September and was succeeded by Mr. W. C. Price; Mr. T. R. Ward, District Engineer, Dikoya, left on leave in November and was succeeded by Mr. Waddell.

157. *Northern Province.*—Messrs. N. M. Walker and M. Sanmugam, District Engineers of Vavuniya and Mullaitivu, left to join the Irrigation Department, and were succeeded by Mr. Ebert. Mr. Ponnasamy, District Engineer's Clerk, Vavuniya, was removed to Mihintale and was succeeded by Mr. C. Kandyah; Mr. B. Joseph, Third Clerk, Provincial Engineer's Office, Jaffna, retired at the age of 60 and was succeeded by Mr. S. Swaminather.

158. *Southern Province.*—Mr. Adams, District Engineer, Galle, was temporarily relieved by the Provincial Engineer in January. Mr. H. S. Jacques assumed duties as District Engineer, Galle, in February and was relieved by Mr. J. Jeffery in March. Mr. B. K. Adams relieved Mr. A. Clementi Smith as District Engineer, Matara, in January and was succeeded by Mr. A. E. Caldicott in March. Mr. Walter C. Price, District Engineer, Hambantota, was succeeded by Mr. E. S. de Silva in September. Mr. Nathanielsz, Head Overseer, left the Southern Province in April.

159. *Eastern Province.*—Mr. Edge, District Engineer, Kalmunai, left on leave in January and was succeeded by Mr. Robertson. On Mr. Edge's return in February Mr. Robertson was removed to Ratnapura; Mr. Edge was removed to Koslanda in October and succeeded by Mr. Goodman; Inspector Mr. Weerasinghe proceeded to the Eastern Province in March to assist in the survey of the Pottuvil road, and was transferred to the Province of Sabaragamuwa in August; Head Overseer Mr. W. B. Perera resigned in October.

160. *North-Western Province.*—Mr. Hayes, Provincial Engineer, left on leave in April, Mr. Crabbe succeeding him, Mr. Gooneratne acting as District Engineer, Kurunegala; Mr. Adams relieved Mr. Crabbe as District Engineer, Puttalam, in March, Mr. Crabbe relieving Mr. Dassenaik as District Engineer, Kurunegala; Mr. De Silva, District Engineer, Dandugama, was removed to Hambantota in August, and Mr. Weerasinghe appointed District Engineer, Dandugama, in November; Head Overseer Mr. Ondatjie was removed from the Puttalam District in August.

161. *North-Central Province.*—Mr. Carson, District Engineer, Maradankadawela, left to join the Ceylon Contingent for South Africa in January; Mr. L. P. Emerson took over charge of the district in February; Head Overseer Mr. Ondatjie acted as District Engineer, Mihintale, during Mr. MacBride's absence on sick leave from 13th August to 2nd November, 1900; Mr. Candiah District Engineer's Clerk, Mihintale, was removed to Vavuniya in April and was succeeded by Mr. Ponnasamy.

162. *Province of Uva.*—Mr. H. B. Christie, Provincial Engineer, left on leave in February; Mr. F. W. Johnson took over the duties of Provincial Engineer in March and was succeeded by Mr. C. A. Lovegrove upon being appointed Assistant Director of Public Works in June; Mr. C. F. Emerson, District Engineer, Koslanda, went on leave in February and was succeeded by Mr. Rowland, the latter being relieved by Mr. Edge in October.

163. *Province of Sabaragamuwa.*—Mr. Caldicott, District Engineer, Kegalla, was relieved by Mr. Dassenaik in March; Mr. Jeffery, District Engineer, Avisawella, was relieved by Mr. Clarke in March, Mr. Robertson succeeding Mr. Clarke as District Engineer, Ratnapura; Mr. Dassenaik, District Engineer, Kegalla, left the Department in September to take up an appointment under the Colombo Municipality and was succeeded by Mr. Gregson; Head Overseer Mr. Spaar was removed to the Central Province in March. Mr. A. Tampoe, Second Clerk, Provincial Engineer's Office, was removed to the Central Province in August and was succeeded by Mr. Paul Francis; Mr. H. B. Christie relieved Mr. Bingham as Provincial Engineer in October, Mr. Bingham relieving Mr. Robertson District Engineer, Ratnapura.

#### GENERAL.

164. The following tabular statement showing the expenditure on Annually Recurrent Works, Extraordinary Public Works, and those chargeable to Loans during the years 1895 to 1900, inclusive, illustrates the increasing demands made on this Department :—

Year.	Public Works.		Miscellaneous, including Loans.		Total.
	Recurrent. Rs.	Extraordinary. Rs.			
1895	1,756,001	1,286,889	—	—	3,042,890
1896	1,823,558	1,219,106	—	—	3,042,664
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

165. In addition to the design and supervision of Public Works a considerable amount of time has been expended both in the Head Office and in the Provincial and District Offices in preparing the elaborate returns called for by the Public Works Commission.



166. Amongst the more important designs prepared in the Head Office may be mentioned—

Design for new Technical College prepared in accordance with the details furnished by the Superintendent of the College. The floor area is 42,500 square feet and the estimated cost Rs. 250,000.

Design for new Magazine for Explosives at Welikada, Colombo, and for a similar magazine at Kurunegala. The former project is in course of construction.

Design for new Public Works Offices, including accommodation for the Director of Public Works, Provincial Engineer, Western Province, District Engineer, Colombo, and Assistant Engineer, Colombo, Director of Irrigation and his Staff. The floor area is 34,000 square feet and the estimated cost Rs. 250,000. The foundations owing to the nature of the site are of a heavy description.

Design for new Minor Courts.

Design for an administration block, Government civil hospital, Colombo.

Design for new Postal Telegraph and Telephone Office.

Design for new jetties, warehouses, and quay wall, Customs premises, Colombo.

167. The approval of Government to the new Code of Departmental Regulations has been received, but the work is not yet out of the Government Printer's hands.

168. A set of type specifications has been prepared for the use of officers of the Department, but their issue is awaiting the receipt of printed copies.

169. The allowance granted to the Provincial and District Engineers when a bicycle is used for inspection duty, referred to in my last report, has been followed by a reduction in that granted to the Director of Public Works when travelling under similar circumstances.

FRANCIS A. COOPER,

M.I.C.E., Fellow of the Sanitary Institute,

Member of the Association of Municipal and County Engineers,  
Director of Public Works.

Public Works Department,  
Colombo, March 25, 1901.

#### REPORT OF THE GOVERNMENT FACTORY ENGINEER FOR 1900.

DURING the year 479 orders were received amounting to Rs. 494,352.30, which, added to Rs. 147,322.44 brought forward from 1899, makes a total of Rs. 641,674.74; to this sum a disbursement of Rs. 379,742.18 in connection with Camps Nos. 1, 2, and 3 for the South African prisoners-of-war at Diyatalawa and Rs. 12,060.66 for the two Camps at Ragama must be added.

The total amount available for expenditure in 1900 was as follows:—

	Rs.	c.
Camps for South African Prisoners-of-War Nos. 1, 2, and 3 at Diyatalawa	379,742	18
Camps for Prisoners-of-War, Ragama	12,060	66
Factory Orders	494,352	30
Amount brought forward from 1899	147,322	44
Total	1,033,477	58

#### EXPENDITURE.

The expenditure has been distributed as follows:—

	Rs.	c.
Camps for Prisoners-of-War, Diyatalawa	379,742	18
Camps for Prisoners-of-War, Ragama	12,060	66
Bridges	240,665	70
Buildings	34,148	0
Harbour Improvements	68,603	35
Miscellaneous Departmental	52,437	69
Irrigation	4,333	73
Other Departments	16,583	90
Railway Castings	20,492	87
Plague Precautions	1,750	97
Waterworks	2,275	43
Ragama Coolies' Camp	547	03
Total	833,641	51

And has been paid in the following manner:—

	Rs.	c.
Daily Labour Check Roll	151,010	49
Fuel	11,551	64
Government Stores	396,892	14
Materials purchased	191,023	7
Piecework	83,164	17
Carried forward for expenditure in 1901	833,641	51
Balance unexpended	194,604	54
	5,251	53
Total	1,033,777	58

#### CAMPS NOS. 1, 2, AND 3 FOR PRISONERS-OF-WAR, DIYATALAWA.

The expenditure under this head provided for the following:—

	Rs.	c.
Buildings supplied and erected and in hand by the Government Factory	299,676	64
Timbers for floors supplied and laid in sheds built by contractors as well as those built by the Government Factory, Ceilings	39,240	60
Guttering and Spouting	8,392	15
Tables and Forms	19,859	96
Water Service, Fencing, and other Miscellaneous Works	12,572	83
Total	379,742	18



There were 190 buildings made and erected by the Government Factory at Diyatalawa and are comprised of the following :—

	Sq. ft.	Cub. ft.
Huts for Prisoners, Recreation Shed, 120 ft. by 40 ft. ...	111,000	1,359,114
Police and Guard Huts... ..	3,128	41,991
Hospital Medical Officer's Quarters, Stores for Ration, &c.,		
Building for Staff ... ..	22,650	288,709
Bathrooms, Latrines ... ..	19,230	185,652
	156,008	1,875,466

The prisoners' huts were made 120 ft. in length, 20 ft. wide, and mean heights of 13 ft. 3 in. and 11 ft. 6 in. The stanchions and roof trusses were all of iron, the former being of rolled beams of H section and the latter of the ordinary trussed type. The roof was covered with galvanized corrugated iron sheeting carried by wood and iron purlins.

The sides of the building were covered with galvanized corrugated sheeting supported by wood runners. Each side of the building contained 12 window sashes—240 square feet. A sliding door 6 feet wide and 8 feet high was fitted in each gable.

Most of the flooring was laid of pine and in a few huts native woods were used. The joists are of Singapore hard woods and also of native grown timber and are carried by steel rails placed upon brick piers.

All other buildings such as hospitals, quarters for Staff, Medical Officer's quarters, store sheds, police huts, and guard rooms, &c., were built of iron upon the same lines as the prisoners' huts, but in some cases with concrete floors.

All bathrooms, latrines, urinals, &c., were built with light iron frames and galvanized iron coverings.

The aforementioned work was made and erected by the Factory Staff and workmen, the erection at Diyatalawa being under the supervision of Mr. T. G. Jayawardene, District Engineer.

The following are the dates upon which I received instructions to put the different works in hand and the time of their completion, which shows that no time was lost in the execution of this work :—

*Camps Nos. 1, 2, and 3.*

15 Prisoners' huts and other buildings,	5th May—completed 5th August.
13     Do.     do.	3rd August—completed 18th September.
16     Do.     do.	11th September—completed 31st October.

The average cost of the sheds of the whole of the buildings erected by the Government Factory, plus the labour of erection (exclusive of transport), supplying and laying of floors and guttering and masonry, was 1.92 per square foot.

The urgency of the work necessitated workmen being employed overtime and the purchase of material in the local market, which accounts for the rate being somewhat higher than is usual for this class of work at the Government Factory.

*Camps Nos. 1 and 2 for Boer Prisoners at Ragama.*

The work in connection with the utilization of the Cooly camps Nos. 3 and 4 at Ragama for the Boer prisoners-of-war was commenced on the 26th November and completed by the first week in January, 1901.

The approximate cost of the work is as follows :—

	Rs.	c.
3,600 yards fencing ... ..	4,189	18
Roads, drains, &c. ... ..	1,016	13
Water service ... ..	2,977	10
Incinerator and chimneys in kitchens ... ..	1,227	87
Tables and forms ... ..	1,385	7
Repairs to former buildings of coolies' encampment and recadjanning same, &c. ... ..	2,112	75
33 new buildings with lining floors, &c., complete ... ..	33,558	45

Some of the wood floor panels from the cooly encampment were utilized for the new buildings, but all the mess houses, kitchens, latrines, and bathrooms were supplied with new floors.

The average cost of the buildings, inclusive of floors, internal linings, additional roof of cadjans, and coolies' transport, was Rs. 2.53 per square foot or 24 $\frac{3}{4}$  cents per cubic foot.

BRIDGES.

During the year 106 iron bridges were constructed of different spans and width of roadway as per statement attached.

*Tummodara.*—The erection of the ironwork of a 120 feet span bridge of 10 ft. roadway was completed upon concrete cylinders sunk to an average depth of 45 feet below road level.

*Galle Road Bridges.*—One span for the Bentota bridge of 141 ft. by 14 ft. has almost been completed.

*Digarolla Bridge.*—On the 29th October I received orders to supply and lay a new floor 14 ft. wide of corrugated plates instead of the old floor of buckled plates, which was only 10 ft. wide. Good progress has been made and the work is rapidly nearing completion.

*Dandugama.*—During the year the iron work for the three spans of the Dandugama bridge has been completed; the work of erection was commenced on the 27th August. The three 80 feet spans comprising this bridge are to be supported upon four piers, each composed of two 6-ft. cast iron cylinders.

Two of the cylinders of the first or southern pier have been sunk to depths below bridge floor line of 51 ft. 8 $\frac{1}{2}$  in. by 50 ft. 10 in. respectively and have been duly tried with test loads.

The guide piles for the cylinders of pier No. 2 are driven and are ready for the sinking of the cylinders. The river has a depth of 20 feet at this pier.

The two cylinders of pier No. 4 were sunk to a depth of 13 ft. 2 in. by 22 ft. 10 in. below bridge level.



*Battulu-oya*.—The iron work for two out of the four 80 feet spans of this bridge has been completed and the work in connection with the other two is also partly completed.

#### BUILDINGS.

The expenditure, Rs. 34,148, under this head has been principally expended in making doors, windows, and roofs for buildings under construction at outstations and on an iron shed 140 ft. long 25 ft. wide with a gantry alongside 140 ft. long and 25 ft. wide carrying an overhead travelling crane to be used for large bridgework in course of construction at the Government Factory.

#### HARBOUR IMPROVEMENTS.

The expenditure, Rs. 68,603.35, has been absorbed by the under-mentioned important works :—

The completion of the new passenger jetty.

A new boat-house for the Colombo Customs at the passenger jetty with slipway, which is almost completed.

Practically the whole of the steel frame and woodwork for the Kalkudah jetty has been made and despatched for erection. The jetty is 165 ft. long and 20 ft. wide with two side gangways and steps, each 120 ft. by 3 ft. 9 in., and being almost entirely composed of steel. The covered area is 122 ft. by 20 ft.

The framework for the Trincomalee jetty 240 ft. long and 20 ft. wide is well in hand.

The plan and estimate for the extension of 30 feet to each of the two iron pile jetties in front of the Kochchikada grain sheds were sanctioned on 10th November and good progress has been made up to the end of the year.

This expenditure also includes repairs and upkeep of landing jetties and cranes.

#### MISCELLANEOUS DEPARTMENTAL.

The expenditure is Rs. 52,437.69, expended in the manufacture of the usual Departmental tools and plant, such as hand- and water-carts, road rollers, ramrods.

#### IRRIGATION.

The Factory work done for this Department has been very small, being Rs. 4,333.73, mainly for sluices and stills; the latter are for the purpose of distilling water for the use of irrigation officers in the field.

#### OTHER DEPARTMENTS.

The expenditure under this head represents orders received from the Master Attendant, Principal Civil Medical Officer, Government Agents, Provincial Road Committees, Local Boards, and Government Printer, and amount to Rs. 16,583.90.

#### RAILWAY CASTINGS.

The expenditure (Rs. 20,492.87) under this heading represents 1,927 cwts. of castings for the Locomotive, Carriage, and Permanent Way and Works Departments.

#### PLAGUE PRECAUTION.

The expenditure (Rs. 1,750.97) includes the cost of repairs to ss. "Serendib" and work to disinfectors.

#### WATERWORKS.

There has been the usual supply of castings, &c., for the duplication of the main, standposts, double air valve boxes, &c., involving an expenditure of Rs. 2,275.43.

The principal works carried forward for expenditure in 1901 are as follows :—

*Battulu-oya Bridge*.—Completion of the ironwork of two out of the four remaining 80 ft. spans.

*Dandugama Bridge*.—To complete the erection.

*Bentota, Gintota, and Mahamodara Bridges*.—Construction of two spans of 155 ft., one span of 152 ft., two spans of 141 ft., and one span of 124 ft. and erection of same.

*Digarolla Bridge*.—The completion of the widening and laying of the new corrugated iron flooring.

*Kochchikada Jetties*.—The sinking of twelve concrete piles with steel centre cores. The superstructure to be of Jarrah beam joists and flooring.

*Extension to Diyatalawa and Ragama Camps*.—Various buildings.

*Trincomalee Jetty*.—Completion of steel framework.

In order to cope with the Foundry work a new rapid cupola has been erected and will shortly be in use.

A large circular cold saw has been ordered for cutting the larger sections of iron required in the construction of bridges.

The insufficiency of drilling machines and the want of a beam-straightening and bending machine is severely felt, and I strongly urge the desirability of making these important additions to the Factory appliances.

I must take this opportunity of recording the able assistance rendered me by Mr. Jayawardene, District Engineer, both in regard to work done at the Factory and at the prisoners' camps, and also the attention given to their respective duties by the Head Overseers, Foremen, and clerical staff, which has enabled me to cope with the large amount of work done by the Factory during the year. In fact, the urgency of the work necessitated their working at full pressure, involving a considerable amount of overtime.

The output of work done during 1900 has been abnormally heavy, the increase being 34.4 per cent. over that of 1899, and when compared with 1897 it shows an expansion of 181 per cent.

G. H. M. HYDE,

Member of the Institute of Mechanical Engineering,  
Acting Factory Engineer.

March 9, 1901.



## APPENDIX.

No. 1.—Statement of Expenditure (Annually Recurrent), 1900.

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.
Maintenance of Roads	155,552 60	253,954 78	79,027 49	116,124 3	86,184 28	110,993 69	69,614 92	161,232 55	118,219 61	—	1,150,603 95
Maintenance of Inland Navigation	17,826 79	—	3,352 15	—	—	12,824 56	—	—	—	—	34,003 50
General (Flood Outlets)	454 69	—	—	—	—	—	—	—	182 50	—	637 19
Repairs to Government Buildings, exclusive of Police and Hospital Buildings	20,492 47	12,243 83	6,121 97	9,538 89	6,750 61	4,646 74	11,012 6	3,629 39	4,655 0	—	79,090 96
Repairs to Police Buildings	4,342 52	2,425 73	356 35	872 34	349 32	304 18	—	308 80	520 77	—	9,480 1
Maintenance of Queen's Houses	4,722 54	2,326 84	—	—	—	—	—	—	—	1,064 98	8,114 36
Maintenance of Medical Aid Hospitals	739 46	4,926 88	—	—	—	—	—	913 9	3,016 15	—	9,595 58
Repairs to Government Hospitals and Dispensaries	10,631 12	7,209 12	1,351 15	1,519 22	1,500 87	1,847 7	1,702 13	2,051 1	480 0	—	28,291 69
Temporary Hospitals in cases of Epidemics	—	465 97	—	—	—	—	52 82	—	—	—	518 79
Maintenance of Customs Wharf Jetties and Cranes	10,570 24	—	249 70	—	—	—	—	—	—	—	10,819 94
Additions and Improvements to Government Buildings and Works	7,060 48	5,653 21	1,821 82	1,611 35	2,483 59	866 19	739 89	263 3	2,082 62	—	22,582 18
Additions and alterations to Government Hospitals and Dispensaries	5,320 53	582 47	1,360 67	1,852 59	1,899 24	77 0	430 38	2,155 70	111 6	—	13,789 64
Additions to Medical Aid Hospitals	—	3,477 78	—	—	—	—	—	165 32	730 52	—	4,373 62
Repairs to Bridges exceeding 50 ft. span	6,723 6	12,310 78	5,527 13	18,785 81	7,982 70	9,272 22	6,203 17	3,875 45	13,516 98	—	84,197 30
Painting Kelani Bridge	1,500 0	—	—	—	—	—	—	—	—	—	1,500 0
Miscellaneous	9,534 33	8,084 17	390 89	1,590 32	6,849 34	159 85	1,253 33	2,465 7	5,066 63	169,020 41	204,414 34
Total	255,470 83	313,661 56	99,559 32	151,894 55	113,999 95	140,691 50	91,008 70	177,059 41	148,581 84	170,085 39	1,662,013 5

No. 1. A.—Statement of Expenditure (Annually Recurrent), 1900.

Classification.	Province.							Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
<i>Commutation Money.</i>								
Maintenance of Roads	88,049 43	34,475 47	30,943 66	44,533 43	18,610 2	35,347 55	10,664 65	304,180 98
<i>Private Contribution Money.</i>								
Maintenance of Roads	—	54,877 16	—	2,628 26	—	220 70	—	62,701 59
Miscellaneous	—	388 38	—	—	—	—	—	383 38
Total	88,049 43	89,736 1	30,943 66	47,161 69	18,610 2	35,568 25	10,664 65	367,265 95



No. 2.—Statement of Expenditure (Extraordinary Works), 1900.

Classification.	Province.									
	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.
New Works and Buildings	127,241 4	102,516 74	14,893 59	34,574 50	94,279 34	34,302 39	23,973 45	31,708 55	31,323 5	494,812 65
Alterations and Additions to Buildings	52,350 0	33,890 0	7,035 7	2,105 37	2,535 21	6,180 73	6,359 39	2,003 24	20,182 6	132,641 16
Special Repairs to Buildings	15,517 96	11,396 80	347 52	9,252 57	—	1,088 53	4,607 70	9,322 83	2,676 44	54,220 35
New Roads	—	47,575 49	—	—	25,898 15	—	6,856 85	41,579 47	14,624 70	136,534 66
Additions and Improvements to Roads	57,854 44	18,526 17	2,824 97	16,262 2	14,782 84	14,395 29	14,766 77	55,062 70	9,446 21	203,921 41
New Bridges	54,323 86	8,171 67	—	129,257 20	4,818 50	40,400 0	19,706 73	15,359 26	30,230 22	302,267 44
Repair of Bridges	28,491 41	7,074 10	199 98	—	4,473 57	3,190 72	—	—	13,630 36	57,057 14
Acquisition of Lands and Buildings	2,164 59	5 20	—	—	5,196 0	—	—	1,113 0	—	8,478 79
Miscellaneous	14,900 71	30,770 40	7,300 14	20,663 48	51,774 31	8,585 9	11,333 80	16,814 23	9,746 36	171,888 52
Total	352,844 10	259,923 57	32,601 27	212,125 14	203,757 92	108,142 75	87,604 69	172,963 28	131,859 40	1,561,822 12

No. 2 A.—Statement of Expenditure (Extraordinary Works), 1900.

Classification.	Province.							
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
New Works and Buildings	—	209 34	—	—	—	—	—	—
Commutation Money.	—	—	—	—	—	—	—	—
Private Contribution Money.	—	—	—	—	—	—	—	—
New Roads	—	28,885 43	—	—	—	—	—	15,984 5
Additions and Improvements to Roads	—	2,095 13	—	—	—	—	—	—
New Bridges	—	—	—	—	—	—	—	573 25
Miscellaneous	—	295 28	—	—	—	—	—	175 91
Total	—	31,485 18	—	—	—	—	—	16,557 30
								396 19
								45,089 76
								2,095 13
								573 25
								471 19
								48,438 67



No. 3.—Statement of Expenditure, 1900.

Classification.	Province.										Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabaragamuwa.	Miscellaneous.	
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
<i>Annually Recurrent.</i>											
Maintenance of Roads	243,602 3	343,307 41	109,971 15	163,285 72	104,794 30	146,261 94	80,279 57	173,245 26	152,739 14	—	1,517,486 52
Maintenance of Inland Navigation...	17,826 79	—	3,352 15	—	—	12,824 56	—	—	—	—	34,003 50
General (Flood Outlets)	454 69	—	—	—	—	—	—	—	182 50	—	637 19
Repairs to Buildings	51,498 35	29,598 37	8,079 17	11,930 45	8,600 80	6,797 99	12,767 1	6,902 29	8,671 92	1,064 98	145,911 33
Additions to Buildings	12,381 1	9,713 46	3,182 49	3,463 94	4,382 83	943 19	1,170 27	2,584 5	2,924 20	—	40,745 44
Repair of Bridges	8,223 6	12,310 78	5,527 13	18,785 81	7,982 70	9,272 22	6,203 17	3,875 45	13,516 98	—	85,697 30
Miscellaneous	9,534 33	8,467 55	390 89	1,590 32	6,849 34	159 85	1,253 33	2,465 7	5,066 63	169,020 41	204,797 72
Irrigation	—	—	—	—	—	—	—	—	—	—	—
Total Recurrent	343,520 26	403,397 57	130,502 98	199,056 24	132,609 97	176,259 75	101,673 35	189,072 12	183,101 37	170,085 39	2,029,279 0
<i>Extraordinary Works.</i>											
New Works and Buildings	127,241 4	102,726 8	14,893 59	34,574 50	94,279 34	34,302 39	23,973 45	31,708 55	31,323 5	—	495,021 99
Alterations and Additions to Buildings	52,350 9	33,890 0	7,035 7	2,105 37	2,535 21	6,180 73	6,359 39	2,003 24	20,182 6	—	132,641 16
Special Repairs to Buildings	15,517 96	11,396 80	347 52	9,262 57	—	1,088 53	4,607 70	9,322 83	2,676 44	—	54,220 35
New Roads	—	76,460 92	—	—	25,898 15	—	6,856 85	57,563 52	14,844 98	—	181,624 42
Additions and Improvements to Roads	57,854 44	20,621 39	2,824 97	16,262 2	14,732 84	14,395 29	14,766 77	55,062 70	9,446 21	—	206,016 54
New Bridges	54,323 86	8,171 67	—	129,257 20	4,818 50	40,400 0	19,706 73	15,932 51	30,230 22	—	302,840 69
Repairs of Bridges	28,491 41	7,071 10	199 98	—	4,473 57	3,190 72	—	—	13,630 36	—	57,057 14
Lands and Buildings to be acquired	2,164 59	5 20	—	—	5,196 0	—	—	1,113 0	—	—	8,478 79
Miscellaneous	14,900 71	31,065 68	7,300 14	20,663 48	51,774 31	8,585 9	11,333 80	16,814 23	9,922 27	—	172,359 71
Total Extraordinary	352,844 10	291,408 75	32,601 27	212,125 14	203,757 92	108,142 75	87,604 69	189,520 58	132,255 59	170,085 39	1,610,260 79
Total Recurrent and Extraordinary	696,364 36	694,806 32	163,104 25	411,181 38	336,367 89	284,402 50	189,278 4	378,592 70	315,356 96	170,085 39	3,639,539 79
<i>Works chargeable to Loans, &amp;c.</i>											
Duplication of Water Main	35,776 62	—	—	—	—	—	—	—	—	—	35,776 62
Harbour Improvement Loan	26,936 24	—	—	—	—	—	—	—	—	—	26,936 24
Railway Extension Fund—Lagoon, Elephant Pass	—	—	213 27	—	—	2,825 91	—	—	—	—	213 27
Do. Survey of Feeder Roads	—	—	—	—	—	—	—	—	—	—	2,825 91
Do. Approach Road, Railway Station, Anuradhapura	—	—	—	—	—	—	—	—	—	—	—
Plague Precautions	—	—	—	—	—	—	—	—	—	—	—
Ragama Camp	—	—	—	—	—	—	—	—	—	—	—
Nuwara Eliya Water Supply	9,982 35	—	—	—	—	—	—	—	—	—	123 27
Draining Marshes between Post Office and Grand Hotel, Nuwara Eliya	—	7,166 69	—	—	—	—	—	—	—	—	19,299 39
Sengalady Resthouse	—	4,500 34	—	—	—	—	—	—	—	—	9,982 35
Assistant Conservator of Forests' Quarters, Batticaloa	—	—	—	—	2,682 41	—	—	—	—	—	7,166 69
Wire across Kumbukkan-oya	—	—	—	—	685 0	—	—	—	—	—	4,500 34
New Buildings, Technical College	147 50	—	—	—	—	—	—	75 1	—	—	2,682 41
Converting Infectious Diseases Hospital into Hospital for Police	—	—	—	—	—	—	—	—	—	—	585 0
Library Hall, Medical College, Colombo	549 68	—	—	—	—	—	—	—	—	—	75 1
Replacing broken Glass Panes, Museum	1,500 0	—	—	—	—	—	—	—	—	—	147 50
Wire fence, District Judge's Quarters, Kurunegala	108 0	—	—	—	—	—	—	—	—	—	549 68
Diyatalawa Camp	—	—	—	—	—	11 83	—	—	—	—	1,500 0
Total Loans, &c.	75,000 39	11,667 3	213 27	—	3,267 41	2,837 74	123 27	962,181 78	—	19,299 39	1,074,665 29
Grand Total	771,364 75	706,473 35	163,317 52	411,181 38	339,635 30	287,240 24	189,401 31	1,340,849 49	315,356 96	189,384 78	4,714,205 8



No. 4.—Return of Roads in charge of the Public Works Department, 1900.

Name of Road.	Length in Miles.				Cost of Maintenance during 1900.					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.
WESTERN PROVINCE.																						
COLOMBO DISTRICT.																						
Approach roads to public offices in the Colombo Fort	—	·22	—	—	·22	Rs.	Rs.	Rs.	Rs.	Rs.	—	12	—	—	Rs.	1,747	—	—	—	—	32	—
Chatham street extension	—	—	·43	—	·43	—	—	2,987	—	2,987	—	—	36	—	—	—	6,946	—	—	—	—	1,120
Kelani bridge approaches	—	—	·90	—	·90	—	—	3,111	—	3,111	—	—	30	—	—	—	3,457	—	—	—	—	568
Roads within the Customs premises	—	—	·33	—	·33	—	—	7,983	—	7,983	—	—	36	—	—	—	24,192	—	—	—	—	2,601
Approach roads to railway stations, Wellawatta, Dehiwala, and Mount Lavinia	—	1·98	—	—	1·98	Rs.	548	—	—	548	—	10	—	—	Rs.	277	—	—	—	—	50	—
Branch roads to Denatagoda...	—	·50	—	—	·50	—	51	—	—	51	—	10	—	—	—	102	—	—	—	—	9	—
Dematagoda to Wellampitiya	—	·75	—	—	·75	—	328	642	—	970	—	11	2	—	—	437	856	—	—	—	15	—
Grandpass to 34th milepost, Kandy road	—	31	—	—	31	—	25,926	25,926	—	25,926	—	—	11½2	—	—	—	836	—	—	—	—	233
Grandpass to Avisawella	—	27	—	—	27	—	25,327	25,327	—	25,327	—	—	11½2	—	—	—	938	—	—	—	—	234
Hanwella to Bope	—	8·50	—	—	8·50	—	1,949	—	—	1,949	—	10	—	—	—	229	—	—	—	—	66	—
Kelaniya to Biyagama	—	—	—	8	8	—	5,237	5,237	—	5,237	—	—	—	2	—	—	655	—	—	—	—	127
Kotte road toll bar to junction of Galle road near Wellawatta	—	—	—	5	7	—	4,808	4,808	—	4,808	—	—	9 & 2	—	—	—	687	—	—	—	—	207
Municipal toll bar at Bambalapitiya to Kotte road junction at Pamankada	—	—	—	·50	·50	—	327	327	—	327	—	—	2	—	—	—	654	—	—	—	—	40
Urugodawatta road	—	—	5	—	5	—	7,280	7,280	—	7,280	—	—	11½2	—	—	—	1,456	—	—	—	—	295
Veyangoda-Ruanwella road to Western Province boundary	—	—	—	11	11	—	7,686	7,686	—	7,686	—	—	—	2	—	—	699	—	—	—	—	91
Wellawatta to 7th milepost, Galle road	—	—	3	—	3	—	5,125	5,125	—	5,125	—	—	12	—	—	—	1,708	—	—	—	—	157
Wakoya to Labugama	—	—	9	—	9	—	2,983	2,983	—	2,983	—	—	2	—	—	—	331	—	—	—	—	51
Approach road to Kelaniya railway station	—	—	·36	—	·36	—	173	173	—	173	—	—	9	—	—	—	481	—	—	—	—	13
Madampitiya-Mattakuliya road	—	—	·50	—	·50	—	1,094	1,094	—	1,094	—	—	20	—	—	—	2,188	—	—	—	—	20
Approach roads to Kochchikada grain sheds, Colombo	—	—	·16	—	·16	—	1,898	1,898	—	1,898	—	—	—	—	—	—	11,862	—	—	—	—	—
KALUTARA DISTRICT.																						
Moratuwa to junction of Kesbewa road	—	—	3	—	3	—	1,195	1,195	—	1,195	—	—	10	—	—	—	398	—	—	—	—	40
Horana to Alutigama	—	13	17·42	—	30·42	—	4,368	5,841	—	10,199	—	—	8	8	—	—	335	—	—	—	55	—
Approach roads to railway stations, Panadura and Wadduwa and beyond Kalutara to Alutigama, Angulana, Lunawa, and Moratuwa	—	—	—	—	—	—	973	—	—	973	—	9 & 10	—	—	—	232	—	—	—	—	96	—
Badureliya to Kukuligama	—	4·43	—	—	4·43	—	1,098	26,796	—	1,098	—	—	8	—	—	248	—	—	—	—	8	—
7th milepost, Galle road to Bentota	—	31	—	—	31	—	5,197	5,197	—	5,197	—	—	10	8	—	—	495	—	—	—	—	80
Nagoda-Neboda road	—	10·50	—	—	10·50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31



No. 4.—Return of Roads—*continued*.

Name of Road.	Length in Miles.				Cost of Maintenance during 1900.					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.
WESTERN PROVINCE—contd.																						
KALUTARA DISTRICT—contd.																						
Panadura to Nambapana	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Road to Beruwala Customs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Road leading to District Hospital, Neboda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bope-Nambapana road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NEGOMBO DISTRICT.																						
Approach roads to Henaragoda railway station	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Approach roads to Veyangoda railway station	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Approach road to Mahara prison	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grandpass to Toppu	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Giriulla to Pasyala	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ja-ela to Kotadeniyawa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Minuwangoda to Henaragoda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maha Hunupitiya to Mugurugampola	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Negombo to Giriulla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Veyangoda to Negombo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wellsara to Ragama	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CENTRAL PROVINCE.																						
KANDY DISTRICT.																						
Approach roads to public buildings, Kandy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Amptiya 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Branch Roads.																						
Deltota road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Padiyapetella and Kabaragala road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



KATUGASTOTA DISTRICT.

[illegible]

## MATALE DISTRICT.

Trincomalee-	36.50	36.50	28,564	28,654	12	12	—	782	—	39
Balakaduwa to junction of Anuradhapura road	—	36.50	—	—	—	—	—	—	—	6
Beligamuwa to Mirigoni-oya...	14.10	—	2,901	2,901	—	—	—	206	—	—
Kalawewa to Galawela	7.50	—	1,640	1,640	—	—	—	218	—	—
Naula <i>via</i> Elahera to Pallegama	14	15.49	3,900	5,449	12	12	91	278	—	—
Matale to Rattota	—	6.50	3,406	3,406	—	—	—	524	—	5
Palapatwela to Galawela	19	—	3,759	3,759	—	—	—	198	—	—
Ukuwela road	1.38	1.38	581	581	—	—	—	421	—	—

PUSSELLAWA DISTRICT.

Approach roads to public buildings and to railway stations, Gampola and Ulapane	65	241	10	—	—	371	—	26
Gampola to Fussellawa	12	13,449	10	—	—	1,120	—	43
Gampola to Nawalapitiya	10-70	4,618	10	—	—	431	—	11
Pundalu-oya-Watagoda road	7-15	3,199	10	—	—	447	—	14
Fussellawa to Ramboda	9	5,395	10	—	—	599	—	10
<i>Branch Roads.</i>								
Pupuressa road	10	6,435	10	—	—	643	—	16
Pundalu-oya-Tawalantenna road	9-25	4,685	10	—	—	506	—	6

NUWARA ELIYA DISTRICT.

Ambawela road	...	...	5'12	—	5'12	—	1,463	—	1,463	—	12	—	—	286	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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No. 4.—Return of Roads—*continued*.

Name of Road.	Length in Miles.				Cost of Maintenance during 1900.					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.
CENTRAL PROVINCE— <i>contd.</i>																						
NUWARA ELIYA DISTRICT— <i>contd.</i>																						
Lindula to Nuwara Eliya (Nanu-oya to Nuwara Eliya) ...	—	—	6	—	6	—	—	5,596	—	5,596	—	—	—	—	—	—	—	—	—	—	—	—
Lake and Moon Plains road ...	—	5	—	—	5	—	—	—	—	1,499	—	—	—	—	—	—	—	—	—	—	—	—
New Bazaar road connecting the Uda Fussellawa and Badulla road ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ramboda to Wilson's Bungalow	—	—	26	—	26	—	—	75	—	75	—	—	—	—	—	—	—	—	—	—	—	—
Rappahannock bridge path ...	1.20	—	1	—	1.20	—	—	10,725	—	10,725	—	—	—	—	—	—	—	—	—	—	—	—
Uda Fussellawa-Dimbula junction road	—	—	1	—	1	—	—	992	—	992	—	—	—	—	—	—	—	—	—	—	—	—
Uda Fussellawa road	—	—	6.84	—	6.84	—	—	4,997	—	4,997	—	—	—	—	—	—	—	—	—	—	—	—
Forest Service road, Kandapola	—	1.40	—	—	1.40	—	—	567	—	567	—	—	—	—	—	—	—	—	—	—	—	—
Uda Fussellawa road to Havelock drive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>Branch Roads.</i>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kandapola-Uda Fussellawa road	—	—	15.16	—	15.16	—	—	7,999	—	7,999	—	—	—	—	—	—	—	—	—	—	—	—
Hospital junction to the Brewery, Nuwara Eliya ...	—	—	—	—	—	—	—	24	—	24	—	—	—	—	—	—	—	—	—	—	—	—
DIMBULA DISTRICT.																						
Craigie Lea to Lindula	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dimbula road, Nawalapitiya to Craigie Lea	—	—	6	—	6	—	—	5,000	—	5,000	—	—	—	—	—	—	—	—	—	—	—	—
Dolosbage road, 1st section	—	—	20	—	20	—	—	9,198	—	9,198	—	—	—	—	—	—	—	—	—	—	—	—
Dimbula-Dikoya junction (Dimbula junction to Hatton) ...	—	—	4	—	4	—	—	3,983	—	3,983	—	—	—	—	—	—	—	—	—	—	—	—
Holyrood road	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lindula to Nuwara Eliya (Lindula to Nanu-oya)	—	—	6.57	—	6.57	—	—	2,443	—	2,443	—	—	—	—	—	—	—	—	—	—	—	—
Tispene road	—	—	—	—	—	—	—	379	—	379	—	—	—	—	—	—	—	—	—	—	—	—
<i>Branch Roads.</i>	—	—	—	—	—	—	—	5,153	—	5,153	—	—	—	—	—	—	—	—	—	—	—	—
Dolosbage road, 2nd section ...	—	—	10	—	10	—	—	991	—	991	—	—	—	—	—	—	—	—	—	—	—	—
Glenlyon-Preston	—	—	2.35	—	2.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lindula to end of Agra road...	—	—	6.25	—	6.25	—	—	3,570	—	3,570	—	—	—	—	—	—	—	—	—	—	—	—
Railway Gorge road	—	—	2.55	—	2.55	—	—	1,200	—	1,200	—	—	—	—	—	—	—	—	—	—	—	—
Walaha road ...	—	—	14	—	14	—	—	14,992	—	14,992	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	3	—	3	—	—	1,275	—	1,275	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1.91	—	1.91	—	—	661	—	661	—	—	—	—	—	—	—	—	—	—	—	—
DIKOYA DISTRICT.																						
Approach roads to buildings at Hatton and to railway stations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Carolina road	—	—	—	—	—	—	—	744	—	744	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	1.20	—	1.20	—	—	541	—	541	—	—	—	—	—	—	—	—	—	—	—	—
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Dikoya road, Nawalapitiya to Hatton bridge junction ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</
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No. 4.—Return of Roads—continued.

Name of Road.	Length in Miles.				Cost of Maintenance during 1900.					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.	Track Metalled.	Natural.	Gravelled.	Track Metalled.	Natural.	Gravelled.	Track Metalled.		
NORTHERN PROVINCE—contd.																					
MULLATTIVU DISTRICT.																					
Central road to Mullattivu (new trace) <sup>e</sup>	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mullattivu to Central road (old trace)	20	15.50	5	—	20.50	Rs. 990	Rs. 2,579	Rs. —	Rs. —	Rs. 4,698	Rs. 49	Rs. 166	Rs. 424	—	2	4	—	—	—	—	
MANNAR DISTRICT.																					
Coast road to Colombo	75.50	2	—	—	77.50	Rs. 3,522	Rs. 254	—	—	Rs. 3,776	46	127	—	—	2	—	—	—	—	—	
Mannar causeway	...	...	2.50	—	2.50	Rs. —	Rs. 1,399	—	—	Rs. 1,399	—	—	—	569	—	—	15	—	—	—	
Yakwewa to Pesalai	13	30.25	9.50	—	52.75	Rs. 1,396	Rs. 7,449	Rs. 5,403	—	Rs. 14,248	107	246	569	—	15	15	—	—	—	—	
Total	123	88.50	306	—	517.50	Rs. 7,267	Rs. 18,093	Rs. 84,612	—	Rs. 109,972	59	204	276	—	—	—	—	—	—	—	
SOUTHERN PROVINCE.																					
GALLE DISTRICT.																					
Bentota-Goyyapana	...	...	43.25	—	43.25	Rs. —	Rs. 29,839	Rs. —	Rs. —	Rs. 29,839	—	—	—	689	—	—	66	—	—	—	
Dodanduwa-Baddegama	...	...	6.50	—	6.50	Rs. —	Rs. 3,609	Rs. —	Rs. —	Rs. 3,609	—	—	—	555	—	—	58	—	—	—	
Galle-Udugama	...	...	22.75	—	22.75	Rs. —	Rs. 10,850	Rs. —	Rs. —	Rs. 10,850	—	—	—	477	—	—	60	—	—	—	
Galle-Akuressa	...	...	21	—	21	Rs. —	Rs. 12,603	Rs. —	Rs. —	Rs. 12,603	—	—	—	600	—	—	42	—	—	—	
Hikkaduwa-Gonapinuwa	...	...	2.70	—	2.70	Rs. —	Rs. 1,852	Rs. —	Rs. —	Rs. 1,852	—	—	—	686	—	—	220	—	—	—	
Kahawe-Batapola	...	...	2	—	2	Rs. —	Rs. 454	Rs. —	Rs. —	Rs. 454	—	—	—	232	—	—	77	—	—	—	
Roads within the Municipality of Galle	...	...	4.75	—	4.75	Rs. —	Rs. 6,482	Rs. —	Rs. —	Rs. 6,482	—	—	—	1,365	—	—	82	—	—	—	
Railway approach roads	...	...	.35	—	.35	Rs. —	Rs. 274	Rs. —	Rs. —	Rs. 274	—	—	—	399	—	—	140	—	—	—	
MATARA DISTRICT.																					
Akuressa-Wiharahena	...	...	33	—	33	Rs. —	Rs. 19,087	Rs. —	Rs. —	Rs. 19,087	—	—	—	578	—	—	50	—	—	—	
Dikwella-Beliatta	...	...	8	—	8	Rs. —	Rs. 3,153	Rs. —	Rs. —	Rs. 3,153	—	—	—	394	—	—	20	—	—	—	
Goyyapana-Tangalla	...	...	36	—	36	Rs. —	Rs. 19,273	Rs. —	Rs. —	Rs. 19,273	—	—	—	536	—	—	51	—	—	—	
Hakmana-Tangalla	...	...	5	—	5	Rs. —	Rs. 1,883	Rs. —	Rs. —	Rs. 1,883	—	—	—	377	—	—	33	—	—	—	
Matara-Hakmana	...	...	15	—	15	Rs. —	Rs. 4,626	Rs. —	Rs. —	Rs. 4,626	—	—	—	309	—	—	62	—	—	—	
Matara new entrance road	...	...	1.25	—	1.25	Rs. —	Rs. 494	Rs. —	Rs. —	Rs. 494	—	—	—	395	—	—	50	—	—	—	
Railway approach roads	...	...	1.40	—	1.40	Rs. —	Rs. 354	Rs. —	Rs. —	Rs. 354	—	—	—	253	—	—	72	—	—	—	
Deniyaya-Hayes estate.	...	...	11.50	—	11.50	Rs. —	Rs. 5,158	Rs. —	Rs. —	Rs. 5,158	—	—	—	448	—	—	40	—	—	—	
HAMBANTOTA DISTRICT.																					
Hambantota-Tanamalwila	...	...	21	—	21	Rs. —	Rs. 1,794	Rs. —	Rs. —	Rs. 1,794	—	—	—	693	—	—	74	—	—	—	
Weligatta-Bundala	...	...	5.50	—	5.50	Rs. —	Rs. 715	Rs. —	Rs. —	Rs. 715	—	—	—	339	—	—	100	—	—	—	
Lewaya road ...	...	...	2	—	2	Rs. —	Rs. —	Rs. —	Rs. —	Rs. —	—	—	—	—	—	—	—	—	—	—	



Tangalla-Hambantota (138th mile) to Liyan- gabatota	...	11	6-25	5	26	—	11	—	1,469	—	1,469	—	15	—	—	—	—	134	—	40	—	—	—	
Wrawila-Kirinda <i>via</i> Tissamaharama	...	—	—	—	—	—	11-25	—	973	1,470	2,443	—	15	—	—	—	—	156	50	—	41	—	—	
Tangalla-Hambantota	...	—	—	—	—	—	26	—	—	19,050	19,050	—	12	—	—	—	—	—	—	—	4	—	—	
Total	...	—	40-50	268-45	—	—	308-95	—	7,361	155,865	163,226	—	—	—	—	—	—	182	580	—	—	—	—	
EASTERN PROVINCE.																								
BATTICALOA DISTRICT.																								
Coast road North, Batticaloa District	...	—	26-50	20-50	—	—	47	—	7,484	12,365	19,849	—	12	—	—	—	—	282	603	20	—	—	—	
Kalkuda road	...	—	—	3-50	—	—	3-50	—	—	2,616	2,616	—	9	—	—	—	—	—	747	—	—	50	—	
Maduru-oya to Eravur	...	—	—	44-25	—	—	44-25	—	—	27,387	27,387	—	14	—	—	—	—	—	619	—	—	10	—	
Punkudaveli road	...	—	1-50	—	—	—	1-50	—	109	—	109	—	10	—	—	—	—	73	—	—	90	—	—	
Road from the resthouse to the bar, Batticaloa	...	—	3	—	—	—	3	—	1,311	—	1,311	—	10	—	—	—	—	437	—	4	—	—	—	
KALMUNAI DISTRICT.																								
Akkaraipattu-Sakamam road	...	—	5-50	6	—	—	11-50	—	725	1,307	2,032	—	8	—	—	—	—	132	218	22	—	—	—	
Arasadi to Malkompuddi	...	—	3-25	—	—	—	3-25	—	736	—	736	—	10	—	—	—	—	226	—	70	—	—	—	
Akkaraipattu-Irakkamam road	...	—	1	—	—	—	1	—	192	—	192	—	10	—	—	—	—	192	—	10	—	—	—	
Coast road south	...	32	18	48	—	—	98	433	3,924	13,315	17,572	20	12	—	—	—	—	218	277	168	—	—	—	
Karaiivu to Sammanturai and Irakkamam	...	—	4	9	—	—	13	—	522	1,941	2,463	—	8	—	—	—	—	130	215	91	—	—	—	
Kalmunai-Chadiyantawala road	...	—	5-50	2	—	—	7-50	—	623	898	1,521	—	10	—	—	—	—	113	449	163	—	—	—	
Pottuvil-Muppane road	...	7	8-50	—	—	—	15-50	765	1,503	—	2,268	30	10	—	—	—	—	177	—	9	—	—	—	
TRINCOMALEE DISTRICT.																								
Coast road, Trincomalee District	...	18-12	24	—	—	—	42-12	1,092	7,484	—	8,576	16	10	—	—	—	—	312	—	23	—	—	—	
Gravets of Trincomalee	...	—	5-40	—	—	—	5-40	—	960	—	960	—	16	—	—	—	—	178	—	50	—	—	—	
Road from the salt store at Nilaveli to the high road	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Trincomalee to Kitulattu	...	—	—	—	—	—	—	—	104	—	104	—	6	—	—	—	—	171	—	2	—	—	—	
Trincomalee towards Anuradhapura	...	—	—	—	—	—	—	—	4,999	—	4,999	—	16	—	—	—	—	222	—	17	—	—	—	
Total	...	57-12	129-26	162-25	—	—	348-63	2,290	30,676	71,128	104,094	—	—	—	—	—	—	237	438	—	—	—	—	
NORTH-WESTERN PROVINCE.																								
KURUNEGALA DISTRICT.																								
Approach roads to public buildings	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Getawana circular road	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kurunegala-Nikaweratiya road	...	—	—	—	—	—	—	—	329	—	329	—	—	—	—	—	—	658	—	25	—	—	—	
Kurunegala-Beliganuwa road	...	—	—	—	—	—	—	—	—	558	558	—	—	—	—	—	—	—	443	—	—	55	—	
Kurunegala-Galagedara road	...	—	—	—	—	—	—	—	1,555	11,090	11,090	—	—	—	—	—	—	311	311	—	—	150	—	
Padeniya-Siyambalagama road	...	—	—	—	—	—	—	—	—	5,287	6,842	—	13	—	—	—	—	—	443	—	—	135	—	
Polgahawela-Kurunegala road	...	—	—	—	—	—	—	—	—	5,977	5,977	—	—	—	—	—	—	—	240	—	—	200	—	
Railway approach roads and Edinburgh street	...	—	—	—	—	—	—	—	—	8,039	8,039	—	—	—	—	—	—	—	334	—	—	100	—	
Kurunegala-Polgahawela road to Lowlands estate	...	—	—	—	—	—	—	—	—	4,014	4,014	—	—	—	—	—	—	—	857	—	—	75	—	
...	...	—	—	—	—	—	—	—	—	540	540	—	—	—	—	—	—	—	—	—	—	80	—	
Total	...	—	—	1-17	—	—	1-17	—	—	569	569	—	—	—	—	—	—	—	486	—	—	15	—	—

\* Erroneously entered as metal road in previous return. Mullaitivu new trace, 11 miles.



No. 4.—Return of Roads—continued.

Name of Road.	Length in Miles				Cost of Maintenance during 1900.				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.
<b>NORTH-WESTERN PROVINCE—contd.</b>																			
<b>DANDUGAMA DISTRICT.</b>																			
Dankotuwa-Girulla road ...	—	—	—	18	18	Rs.	—	—	7,646	7,646	Rs.	—	—	2½	Rs.	—	—	—	62
Kurunegala-Girulla road ...	—	—	—	22	22	—	—	—	6,440	6,440	—	—	—	2½	—	—	—	—	55
Maharagama-Polgahawela road ...	—	—	—	14.25	14.25	—	—	—	3,492	3,492	—	—	—	2½	—	—	—	—	16
Naramunulla to Dummalasuriya ...	—	—	—	22.25	22.25	—	—	—	6,356	6,356	—	—	—	2½	—	—	—	—	39
Kompaspara road ...	—	2	—	—	2	—	297	—	—	297	—	149	—	—	—	2	—	—	—
<b>PUTTALAM DISTRICT.</b>																			
Akkarapattu road ...	—	24.38	.62	—	25	—	7,234	117	—	7,351	—	297	188	—	—	20	26	—	—
Main road to Kiriankali bridge ...	—	.83	—	—	.83	—	87	—	—	87	—	105	—	—	—	—	5	—	—
Nikaweratiya to Puttalam ...	—	—	29	—	29	—	—	16,150	—	16,150	—	—	557	—	—	—	—	52	—
Puttalam to Kala-oya ...	—	—	23.50	—	23.50	—	—	9,998	—	9,998	—	—	426	—	—	—	—	31	—
Puttalam to Batulu-oya ...	—	10.50	6	4	20.50	—	2,695	3,496	2,599	8,791	—	256	566	—	—	26	30	—	27
Puttalam to Madurugama ...	30	9	2	—	41	—	1,445	—	—	2,287	—	161	—	—	—	3	8	—	—
Service road at Palavi ...	—	4.50	—	—	4.50	—	810	—	—	810	—	180	—	—	—	—	4	—	—
Roads to salt stores and town roads, Puttalam ...	—	—	10.50	—	10.50	—	—	4,754	—	4,754	—	—	453	—	—	—	—	—	—
<b>CHILAW DISTRICT.</b>																			
Bo-tree road ...	—	—	—	1.25	1.25	—	—	—	402	402	—	—	—	—	—	—	—	—	26
Chilaw-Wariyapola road ...	—	16	—	—	16	—	2,427	—	6,327	8,754	—	151	—	—	—	—	15	—	15
Madampe to Dummalasuriya ...	—	—	6	—	6	—	—	—	3,397	3,397	—	—	—	—	—	—	—	—	147
Natandiya-Marawila road ...	—	—	3	—	3	—	—	—	954	954	—	—	—	—	—	—	—	—	56
Pilekatunulla road ...	—	—	—	2	2	—	303	—	303	303	—	151	—	—	—	18	—	—	—
Toppu-Battulu-oya road ...	—	3	—	—	3	—	471	—	19,300	19,771	—	157	—	—	—	53	—	—	53
Toppu-Dankotuwa road ...	—	—	—	2½	2½	—	—	—	—	—	—	526	—	—	—	—	—	—	84
Approach roads to Government buildings ...	—	—	—	.65	.65	—	342	—	—	342	—	—	—	—	—	—	—	—	—
<b>Total</b> ...	30	78.36	175.67	141	425.03	842	17,996	70,589	56,913	146,340	28	229	402	403	—	—	—	—	—
<b>NORTH-CENTRAL PROVINCE.</b>																			
<b>ANURADHAPURA DISTRICT.</b>																			
Kala-oya to Galgodahena ...	—	—	—	26.25	26.25	—	—	11,109	—	11,109	—	—	423	—	—	—	—	—	—
Anuradhapura to Siyambalagama ...	—	9.37	9.63	—	19	—	2,352	3,824	—	6,176	—	251	397	—	—	21	9	—	—
Galkulam through Anuradhapura to Rambewa ...	—	1.50	16.50	—	18	—	215	6,890	—	7,105	—	143	417	—	—	9	19	—	—
Approach roads to public buildings ...	—	.47	.43	—	.90	—	40	128	—	168	—	89	—	—	—	—	—	—	—
Inner Circular road, Anuradhapura ...	—	1.20	.50	—	1.70	—	134	132	—	266	—	112	298	—	—	—	—	—	—
Outer Circular road, Anuradhapura ...	—	6.25	—	—	6.25	—	565	—	—	565	—	90	—	—	—	—	—	—	—



[illegible]



No. 4.—Return of Roads—continued.

Name of Road.	Length in Miles.				Cost of Maintenance during 1900.				Width of Track in Feet.				Average Cost per Mile.				Traffic Acreage 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.		
<b>PROVINCE OF UVA—contd.</b>																				
<b>KOSLANDA DISTRICT.</b>																				
Badulla to Halpe	...	...	12.75	...	12.75	...	...	...	...	10,865	...	...	...	...	...	...	...	...	...	
Badagoda deviation	...	...	...	...	...	...	...	232	...	...	...	...	...	...	...	...	...	...	...	
Halpamulla to Wellawaya	...	...	22.50	...	22.50	...	...	17,479	...	...	...	...	...	...	...	...	...	...	...	
Horton Plains road	12	...	...	...	12	1,645	...	...	...	1,645	...	...	...	...	...	...	...	...	...	
Haputale and Nanu-oya bridge road	10	...	...	...	10	500	...	...	...	500	...	...	...	...	...	...	...	...	...	
Ohaya Horton Plains road	2	...	2.25	...	4.25	668	...	2,281	...	2,949	...	...	...	...	...	...	...	...	...	
Wellawaya to Tanamalwila	...	...	21.50	...	21.50	...	...	11,827	...	11,827	...	...	...	...	...	...	...	...	...	
Wellawaya to Monaragala and towards Pottuvil	20.25	4	22	...	46.25	1,012	...	1,680	...	11,264	...	...	...	...	...	...	...	...	...	
Passara-Mupane road, 9th mile to Muppane	9	...	...	...	9	258	...	700	...	258	...	...	...	...	...	...	...	...	...	
Koslanda bazaar to Poonagala factory	...	...	2.75	...	2.75	...	...	138	...	...	...	...	...	...	...	...	...	...	...	
Mupane bazaar road	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	102	30.33	241.03	...	373.36	7,378	9,779	156,087	...	173,244	...	...	...	...	72	322	647	...	...	
<b>PROVINCE OF SABARAGAMUWA.</b>																				
<b>Ratnapura District.</b>																				
Avisawella-Ratnapura road from Pussella to Ratnapura	...	...	11.50	...	11.50	...	...	9,198	...	...	...	...	...	...	...	...	...	...	...	
Bulutota-Eroporuwa road	6	...	...	...	6	600	...	...	...	600	...	...	...	...	...	...	...	...	...	
Erattana-Kuruvita road	8	...	...	...	8	383	...	...	...	383	...	...	...	...	...	...	...	...	...	
Morowaka-Rakwana road	...	...	...	...	...	1,500	...	...	...	1,500	...	...	...	...	...	...	...	...	...	
Madampe towards Hambantota	...	...	19.25	...	19.25	...	...	3,058	...	5,165	...	...	...	...	...	...	...	...	...	
Nambapana road	...	...	19.75	...	19.75	...	...	2,107	...	5,375	...	...	...	...	...	...	...	...	...	
Pelmadulla to Gilgarron	...	...	29	...	29	...	...	16,190	...	16,190	...	...	...	...	...	...	...	...	...	
Ratnapura to Halpe	...	...	45	...	45	...	...	34,357	...	34,357	...	...	...	...	...	...	...	...	...	
Riverside road, Ratnapura	...	...	1	...	1	...	...	731	...	731	...	...	...	...	...	...	...	...	...	
Road to District Judge's quarters, Ratnapura	...	...	...	...	...	...	...	31	...	31	...	...	...	...	...	...	...	...	...	
Roads in Government premises, Ratnapura	...	...	...	...	...	...	...	181	...	181	...	...	...	...	...	...	...	...	...	



AVISAWELLA DISTRICT.													
Avisawella-Ratnapura road from Avisawella to Pussella ...	14.50	—	—	—	8,699	—	—	—	12	—	—	—	600
Avisawella towards Ginigathena ...	26.50	—	—	—	17,750	—	—	—	12	—	—	—	669
Ferry approaches at Ruwanwella and Karawanella ...	.50	—	—	—	450	—	—	8	12	—	—	—	900
Karawanella to Glenella ...	14.75	—	—	—	7,459	—	—	—	12	—	—	—	505
Ruwanwella to boundary of Province ...	9	—	—	—	4,500	—	—	—	12	—	—	—	500
Sitawaka to Ferry approach ...	.25	—	—	—	108	—	—	—	12	—	—	—	432
Dehiowita to Algodra ferry ...	1	—	—	—	500	—	—	—	12	—	—	—	500
Glenella-Havilland road ...	3.50	—	—	—	1,849	—	—	—	12	—	—	—	528
Road from Parakaduwa bazaar to Hemingford estate ...	1.88	—	—	—	849	—	—	—	12	—	—	—	451
Yatiyantota to Polatagama ...	3	—	—	—	1,899	—	—	—	12	—	—	—	633
KEGALLA DISTRICT.													
Kinadeniya road ...	3.25	—	—	—	862	—	—	—	8	—	—	—	265
Ambepussa to Alawwa ...	5	—	—	—	488	—	—	—	8-10	—	—	—	—
Dolosbage to Rambukkana ...	19.50	—	—	—	9,462	—	—	—	8-12	—	—	—	485
Kandy road, 34th milepost to Kadugannawa ...	28	—	—	—	11,191	—	—	—	8	—	—	—	399
Kegalla to Polgahawela ...	7.25	—	—	—	2,884	—	—	—	8	—	—	—	397
Kegalla to Bulatkohpitiya ...	16.25	—	—	—	8,933	—	—	—	8	—	—	—	549
Roads in Government premises, Kegalla ...	1.50	—	—	—	365	—	—	—	8	—	—	—	—
Givulipitiya-Hagampola road ...	1.34	—	—	—	788	—	—	—	8	—	—	—	588
Total ...	308.40	5	2.483	3,635	146,141	488	152,747	99	215	559	97	—	—



No. 5.—Bridges constructed at the Government Factory in 1900.

No. of Spans.	Name.	Span.	Clear Width.	Weight per Foot run.			Total Dead Weight.	Safe Live Load Weight.	Estimated Cost.		Type of Bridges.
				Girders.	Flooring.	Road Material.			Per ft. run.	Total.	
		ft. in.	ft. in.	cwt.	cwt.	cwt.	cwt.	lb. per sq. ft.	Rs. c.	Rs. c.	
1	Bentota bridge	141 0	14 0	11-84	2-82	10-00	3,477-06	125	191 49	27,000 0	Lattice girders and corrugated flooring
1	Horse bridge, Nakkala over Kumbukkan-oya	100 0	6 0	3-00	1-20	4-30	850-00	125	54 60	5,460 0	Bowstring girders and corrugated flooring
3	Battulu-oya bridge	80 0	14 0	5-72	2-90	10-00	1,489-60	125	116 25	27,900 0	Lattice girders and corrugated flooring
1	Pundalu-oya bridge	50 0	10 0	3-00	2-00	7-20	610-00	125	80 0	4,000 0	Do.
1	Bridge on Central road near Tirapane	30 0	14 0	4-21	2-10	10-7	510-30	125	63 33	1,900 0	Rolled beams and curved plate
99	H iron bridges under 30 ft. span	—	—	—	—	—	14,744-76	125	—	53,360 0	—
										119,620 0	

No. 6.—Distribution of Factory Expenditure, 1899 and 1900.

Year.	Daily Labour.	Fuel.	Government Store Payments.	Piecework.	Market Payment.	Total.
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
1900	151,010 49	11,551 64	396,892 14	83,164 17	191,023 7	833,641 51
1899	125,374 47	12,260 77	367,934 94	65,855 73	48,630 68	620,056 59
Increase	25,636 2	—	28,957 20	17,308 44	142,392 39	213,584 92
Decrease	—	709 13	—	—	—	—

No. 7.—Classification of Factory Expenditure, 1898 to 1900.

Year.	Buildings.	Bridges.	Customs Improvements.	Departmental Charges.	Irrigation.	Other Departments.	Railway Castings.	Waterworks.	Plague Precaution.	Camps for Prisoners-of-War.	Total.
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
1898	21,606 81	145,103 17	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	44,545 2	222,822 24	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	34,148 0	240,665 70	68,603 35	52,437 69	4,333 73	16,583 90	20,492 87	2,275 43	2,298 0	391,802 84	833,641 51



No. 8.—Statement of Supply and Consumption of Water during the Year 1900.

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 ...	78,501,163	71,686,693	8,354,810	80,041,503	3,997,067	1,821,147	15.21	3.72
February ...	77,431,321	65,959,378	8,416,640	74,376,018	2,927,565	2,320,283	5.19	.63
March ...	87,315,370	78,460,924	10,464,990	88,925,914	3,008,352	2,688,235	4.88	3.71
April ...	84,576,819	71,725,586	9,929,090	81,654,676	3,436,744	2,212,766	29.21	15.12
May ...	85,525,465	73,956,510	11,498,230	85,454,740	3,869,846	2,267,087	10.82	10.63
June ...	79,594,384	66,583,877	10,250,910	76,834,787	2,907,728	2,171,868	13.55	7.83
July ...	84,211,604	69,370,440	11,098,180	80,468,620	2,825,128	2,373,007	21.19	6.77
August ...	84,293,787	71,236,377	11,668,460	82,904,837	2,938,861	2,321,253	14.74	7.35
September ...	82,200,607	68,803,754	12,438,260	81,242,014	3,042,429	2,336,286	15.69	4.00
October ...	86,671,266	73,271,136	11,800,570	85,071,706	3,102,504	2,391,661	17.74	9.47
November ...	83,720,106	69,367,320	11,446,188	80,813,508	3,036,430	2,443,500	13.82	9.25
December ...	87,018,749	71,486,286	12,566,880	84,053,166	3,782,405	2,397,999	11.04	5.20
Total ...	1,001,060,641	851,908,281	129,933,208	981,841,489	—	—	173.08	83.68

No. 9.—Monthly Return of Water supplied by Meter in each of the Nine Wards of the City during the Year 1900.

Month.	Wards.									Total.
	Fort.	Pettah.	St. Sebastian.	St. Paul's.	Slave Island.	Kotahena.	New Bazaar.	Maradana.	Kollupitiya.	
	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
January ...	2,130,130	2,293,490	21,950	257,370	243,210	214,190	41,570	2,135,260	1,017,640	8,354,810
February ...	2,112,090	2,387,970	22,120	298,510	267,960	231,260	48,870	2,087,270	960,590	8,416,640
March ...	2,716,560	2,776,590	28,490	368,490	324,710	335,730	19,320	2,602,530	1,292,570	10,464,990
April ...	2,176,550	2,120,760	16,380	509,120	331,100	251,210	26,480	3,446,550	1,050,940	9,929,090
May ...	2,209,250	2,434,330	24,600	792,720	431,890	332,430	36,150	4,025,910	1,210,950	11,498,230
June ...	2,504,400	2,196,040	16,090	524,760	315,580	257,530	31,570	3,454,680	950,260	10,250,910
July ...	3,098,080	2,215,190	18,790	398,200	331,210	255,850	26,180	3,717,600	1,037,080	11,098,180
August ...	3,313,970	2,356,920	20,680	451,060	398,580	273,450	23,080	3,577,360	1,253,360	11,668,460
September ...	3,950,540	2,417,540	18,300	413,880	462,880	265,430	30,030	3,628,920	1,250,740	12,438,260
October ...	3,672,960	2,608,000	24,840	356,090	316,740	281,170	31,580	3,263,470	1,245,720	11,800,570
November ...	3,417,870	2,021,010	29,520	592,770	445,460	370,870	29,040	3,417,228	1,122,420	11,446,188
December ...	3,942,620	2,294,190	26,920	428,830	417,730	277,520	29,280	4,000,030	1,149,760	12,566,880
Total ...	35,245,020	28,122,030	268,680	5,391,800	4,287,050	3,346,640	373,150	39,356,808	13,542,030	129,933,208











