

CEYLON.



ADMINISTRATION REPORTS, 1911-12.

PART V.—PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

REPORT of the HON. MR. F. A. COOPER, C.M.G., M.I.C.E.,

*Fellow of the Royal Sanitary Institute, Member of the Association of the Municipal and County Engineers,
Director of Public Works.*

PART V.—PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

REPORT OF THE DIRECTOR OF PUBLIC WORKS FOR 1911-12.

I HAVE the honour to submit the following report on the operations of the Public Works Department during the period July 1, 1911, to June 30, 1912.

EXPENDITURE.

2. The following statement gives the expenditure under the respective headings in the Supply Bill :—

	Rs.	c.
Personal Emoluments ..	671,823	81
Other Charges ..	103,507	87
Station Allowance to Officers (Surplus Balances) ..	21,090	36
Public Works Annually Recurrent ..	3,211,340	98
Public Works Extraordinary ..	2,017,577	13
Works chargeable to Surplus Balances, Loans, &c. ..	1,225,950	6
 Total ..	 7,251,290	 21

3. In Appendix 1 will be found the expenditure on Public Works Annually Recurrent classified under the several sub-heads in the Supply Bill, and in Appendix 1a that charged to commutation and private contribution funds. In Appendix 2 will be found the expenditure on Public Works Extraordinary charged against votes in the Supply Bill and Supplementary Supply Bill, and in Appendix 2a that charged against private contribution funds. In Appendix 3 will be found the total expenditure classified under the several headings of account in each Province, including that charged against loans and other funds.

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

Province.	Public Works Annually Recurrent.	Public Works Extra- ordinary, including Surplus Balances, Loan Works, &c.	Total.	
	Rs.	c.	Rs.	c.
Western ..	966,046	25*	1,488,379	41*
Central ..	502,491	85	425,320	33
Northern ..	180,482	83	207,856	26
Southern ..	294,115	36	145,288	51
Eastern ..	209,931	13	116,761	5
North-Western ..	336,116	34	211,407	93
North-Central ..	166,291	56	48,112	73
Uva ..	304,308	8	291,429	31
Sabaragamuwa ..	251,557	58	308,971	66
 3,211,340	 98	 3,243,527	 19	
 Establishment ..	 671,823	 81		
Other Charges ..	103,507	87		
Station Allowance (Surplus Balances) ..		21,090	36	
 Total ..	 7,251,290	 21		

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

MAINTENANCE OF ROADS.

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

Province.	Metalled. Miles.	Track Metalled. Miles.	Gravelled. Miles.	Natural. Miles.	Total. Miles.
Western	388.31	—	22.09	—	410.40
Central	597.38	—	64.24	56.38	718.00
Northern	326.38	26.25	61.48	79.32	493.43
Southern	298.93	—	24.22	—	323.15
Eastern	156.22	79.75	98.53	30.25	364.75
North-Western	321.103	40.50	89.187	29.00	479.79
North-Central	137.80	96.45	90.78	—	325.03
Uva	263.88	28.50	24.37	97.26	414.01
Sabaragamuwa	281.56	5.77	40.29	17.50	345.12
Total	2,771.563	277.22	515.187	309.71	3,873.68

6. In Appendix 4 will be found a return giving the name of each road, its length, description, and particulars in regard to the cost of maintenance.

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

Province.	Metalled. Rs. c.	Track Metalled. Rs. c.	Gravelled. Rs. c.	Natural. Rs. c.	General Average. Rs. c.
Western	921.65	—	340.58	—	890.37
Central	658.76	—	264.14	59.03	576.31
Northern	339.64	456.78	288.48	85.15	298.59
Southern	741.76	—	279.72	—	707.13
Eastern	661.96	481.78	288.59	22.40	469.03
North-Western	709.46	481.45	343.89	10.00	579.98
North-Central	514.50	619.38	227.45	—	465.45
Uva	877.10	294.45	356.58	122.17	629.00
Sabaragamuwa	697.77	629.41	239.67	115.97	613.64

The general average throughout the Colony was:—Metalled, including track metalled roads, Rs. 674 per mile; gravelled roads, Rs. 285 per mile; and natural roads, Rs. 80 per mile.

8. The roads generally have been maintained in a good state of repair. Some of the roads in the Western, Central, Northern, North-Western, and North-Central Provinces were considerably damaged in places by the exceptional floods of December, 1911, and January, 1912, but as a rule traffic was only interrupted for a few days.

9. The more general use of steam rollers has been attended with satisfactory results. There are now 27 six-ton and 6 four-ton rollers in use, and provision has been made in the Supply Bill for 1912-13 for the purchase of 12 additional ones.

IMPROVEMENT OF ROADS.

10. The increase in traffic on the more important roads and the probable early introduction of motor lorry traffic on some of them point to the desirability of widening the metalled surface. Provision has been made in the Estimates for 1912-13 to meet the probable expenditure during that year on this service.

11. Sharp corners on the Deltota, Ampitiya, Craigie Lea-Lindula, Lindula-Agra, Lorne, Railway Gorge, Walaha, Katugastota-Madulkele, Uda Pussellawa, Ramboda-Wilson's Bungalow, Padiyapelella-Ellamulla, Dolosbage, Maskeliya-Cruden, Galle-Udugama roads have been improved.

12. The widening of narrow embankments and the general improvement of the roads to meet the increasing traffic continue to receive attention. Among the more important roads, the improvement of which is provided for in the Supply Bill for 1912-13, may be mentioned the Nambapana, Horana-Alutgama, Palapatwela-Galawela, Galle-Udugama, Matara-Hakmana, Hambantota-Tanamalwila, Akkaraipattu-Sagamam, Narammulla-Dummelasuriya, Dankotuwa-Giriulla, Bibile-Medagama-Muppane, Madampe-Hambantota, and Pelmadulla-Balangoda roads.

NEW ROADS.

13. The following have been completed during the year:—The Norwood-Upcot-Glenugie; Deltota-Rahatungoda; Gampola-Dolosbage; Talladi-Vangalai; approach road to Railway Station, Mannar; South Coast road deviation, Eastern Province; first section of the Kukulu korale road.

14. *In the Western Province.*—The construction of the Pimbura-Kalawellawa road has been proceeded with, but the works have been considerably delayed by the exceptional floods that occurred during the year. The opening of land in this district has apparently considerably increased the heights of the floods, which will necessitate the provision of increased waterway in the bridges and the raising of embankments.

15. *In the Central Province.*—Good progress has been made with the construction of the Bramley-High Forest road, which is now open to traffic; the Wattegama-Ukuwela road, which is nearing completion; and the St. Andrew's-Pedro road.

16. *In the Northern Province.*—The Paranthan-Karachchi, Pandichudan-Kandavali, Tallady-Pappamoddai, Puliyadyirakkam-Madhu, and the Mantai-Illuppaikadavai roads have been proceeded with.

17. *In the North-Western Province.*—The construction of the Alawwa-Dampelessa road has been proceeded with, and the first four miles from Dampelessa are completed. This road is being constructed mainly by village labour.

18. *In the Province of Uva.*—Good progress has been made with the construction of the Bandara-wela-Welimada road, which, it is anticipated, will be completed next year. The road is now open to the 9th mile, and the work well in hand up to the 13th mile. The construction of the road from Taldena towards Alutnuwara and the Muppane-Pottuvil road has been proceeded with. The Passara-Nakkala road and the extension of the Bandarawela-Leangahawela road have been commenced.

19. *In the Province of Sabaragamuwa.*—The construction of the Kukulu korale road is nearing completion. The work was let on contract, but the contractor having failed to complete it within the specified time requested that the work be completed departmentally.

20. *Proposed Works.*—Provision has been made in the Supply Bill for 1912-13 on account of the following new roads:—Hakmana-Timbulketiya, Uraniya-Alutnuwara, Woodend to Hunugewatta, Watagoda-Talawakele, Mallowapitiya, Dehiowita-Deraniyagala, and Karandupone-Rambukkana roads.

INLAND NAVIGATION.

21. The canals in the Colombo, Kalutara, and Negombo Districts have been maintained in good condition. The planting of *kara* to protect the sides of the canals in the Negombo District has been continued. The Provincial Engineer reports that the completion of the railway to Negombo has not reduced the heavy traffic on the canal. During the period under review 2,151 cubes of silt were removed from the Negombo canal at a cost of Re. 1'39 per cube.

22. In the North-Western Province the Negombo-Puttalam canal has been satisfactorily maintained. During the period under review 5,257 cubes of silt were removed.

23. In the Eastern Province dredging operations have been continued in the channel between Batticaloa and Kalmunai. During the period under review 5,616 cubes of silt have been removed at a cost of Re. 1'30 per cube.

PUBLIC BUILDINGS.

24. The usual repairs have been effected and the buildings generally maintained in a reasonably good condition.

25. The destruction caused by white ants to the wooden floors of the Diyatalawa camp buildings point to the desirability of replacing them with concrete floors.

26. Numerous minor additions and improvements have been carried out.

NEW BUILDINGS.

27. *In the Western Province.*—The new outpatients' department at the General Hospital, including the Rockwood Memorial Hall, dispensary, operating room on the ground floor, and house officer's quarters on the upper floor, was completed and opened by His Excellency the Governor on April 16, 1912. The cost was at the rate of 34 cents per cubic foot.

28. The Wireless Telegraph Station, quarters for the medical officer at Welikada, officers' quarters at Welikada, cooly lines on the 11th mile, Hanwella-Nambapana road, and on the 27th mile, Horana-Alutgama road, and the new public latrine in the Fort have been completed.

29. Fly-proofing has been completed at the General Hospital, Welikada jail, Lunatic Asylum, Hulftsdorp jail, Negombo hospital, and Mahara jail.

30. Progress has been made with the erection of a dispensary at Mirigama; quarters for constables at Negombo; District Engineer's quarters, office, and stores at Negombo; the District Judge's quarters at Kalutara; distillery at Kalutara; anatomical block, Medical College, Colombo; Modara-Grandpass and Wellawatta Police Stations, Colombo; the new Royal College, Colombo; Treasury extension; the extension of jetties and construction of quay wall, Customs premises; the extension of the passenger jetty.

31. *In the Central Province.*—The court-house, Teldeniya; dispenser's quarters, Bogambra jail; overseers' quarters, Craigie Lea; and cooly lines on the 25th mile, Madawela-Nugatenna Gap road, on the 22nd mile, Haragama-Kurunduoya road, on the 22nd mile, Rikiligasgoda-Rahatungoda road, and on the 66th mile, Kandy-Colombo road; apothecary's quarters, Wattegama; fly-proofing Glencairn, Gampola, and Uda Pussellawa hospitals, have been completed.

32. Progress has been made with the erection of quarters for the Assistant Provincial Registrar's clerk, Nuwara Eliya; quarters for junior clerks, Nuwara Eliya; fly-proofing Kandy, Nuwara Eliya, Matale, Dambulla, Maturata, and Deltota hospitals.

33. The construction of the hydro-electric installation at Nuwara Eliya was sufficiently advanced to admit of the district being lighted by electricity on March 15 last, and twenty-nine private installations have been connected by request of the Board of Improvement, for whom the power station, pipe line, transmission cables, and other works have been carried out by this Department.

34. *In the Northern Province.*—The erection of quarters and office for the Assistant Conservator of Forests, Jaffna (cost at the rate of 17 cents per cubic foot); grain sheds at Jaffna and Valvedditturai (cost at rate of 8 cents and 11 cents per cubic foot respectively); dispensary at Delft; mosquito-proofing Puloli hospital, have been completed.

35. Two hand dredgers and four pontoons have been supplied to the Prisons Department at Jaffna for use in the Karaiyur reclamation.

36. Progress has been made with the manufacture of machine-made concrete blocks for proposed police buildings, Talaimannar. The provision of wooden ceilings to Calicut tiled roofs; the construction of Mannar waterworks; mosquito-proofing hospitals at Adampan, Mannar, Vavuniya, and Mullaitivu, have been proceeded with.

37. *In the Southern Province.*—Cooly lines on the 143rd mile, Tangalla-Hambantota road; mosquito-proofing hospitals at Deniyaya, Mahamodara, Balapitiya, Tangalla, Matara, and Hambantota, have been completed.

38. Progress has been made with the erection of a hospital at Tissamaharama and quarters for Forest Ranger at Yala.

39. *In the Eastern Province.*—The erection of apothecary's quarters, Kalmunai hospital; operating room at Trincomalee hospital; buildings for Motor Mail Service; and mosquito-proofing Batticaloa and Maha-oya hospitals, have been completed.

40. *In the North-Western Province.*—The erection of quarters for two senior clerks at Puttalam ; quarters for Superintendent of Surveys, Kurunegala ; quarters for Police Magistrate, Kurunegala ; quarters for apothecary, Marawila ; dispensary at Mawatagama, have been completed.

41. Progress has been made with the erection of further buildings at Kurunegala hospital ; new hospital ward, Chilaw jail ; mosquito and fly-proofing Kurunegala hospital.

42. *In the North-Central Province.*—The erection of two wards at Anuradhapura hospital and the conversion of old Post Office, Anuradhapura, into offices for Irrigation Department, Provincial Committee, and Local Board have been completed.

43. Progress has been made with the Kachcheri extension ; Kahatagasdigiliya dispensary ; and quarters for Assistant Conservator of Forests, Anuradhapura.

44. *In the Province of Uva.*—The erection of apothecary's quarters, Namunukula ; temporary ward, Badulla hospital ; two sets of cooly lines, Bibile-Muppane road ; Koslanda hospital ; mosquito-and fly-proofing Haputale, Koslanda, Muppane, Medagama, and Lunugala hospitals, have been completed.

45. Progress has been made with the erection of dispensary and apothecary's quarters at Welimada and the necessary buildings for the Motor Mail Service at Bibile.

46. *In the Province of Sabaragamuwa.*—The Police Court, Balangoda, and water supply, Balangoda hospital, have been completed.

47. Progress has been made with the erection of Public Works Department clerks' quarters, Ratnapura ; cooly lines in the Kegalla, Ratnapura, and Avisawella Districts ; Police Station, Balangoda ; Kendangamuwa and Undugoda hospitals ; fly- and mosquito-proofing Ratnapura, Kolonna, Balangoda, Rakwana, Avisawella, Karawanella, and Kegalla hospitals.

48. *Proposed Works.*—Provision has been made in the Supply Bill of 1912-13 on account of the following new works :—Quarters for laboratory assistant, Bacteriological Institute ; Mount Lavinia Police Training School ; Cinnamon Gardens Police Station ; Customs sheds, old coaling ground, Colombo ; immigrant cooly camp, Paumben ; Ingiriya hospital ; medical officers' quarters, Maskeliya and Nawalapitiya ; quarters for matron and nurses, Deltota hospital ; residence for Colonial Secretary, Nuwara Eliya ; Government buildings, Talaimannar ; Police buildings, Talaimannar ; residence for medical officer, Matara ; Post Office, Dandagama ; quarters for clerks, Puttalam ; quarters for Itinerating Magistrate, court-house, and Fiscal's lock-up, Dandagama ; cooly lines, Experimental Gardens, Maha Illuppallama ; water supply, Batticaloa ; Passara hospital ; resthouse, Ratnapura ; hospital, Pelmadulla ; hospital, Kitulagala ; officers' quarters, Ratnapura.

ADDITIONS AND IMPROVEMENTS TO BUILDINGS.

49. In addition to the minor alterations and improvements to Government buildings carried out under the general vote, the following have been carried out under separate provision :—

50. *In the Western Province.*—The introduction of the water-carriage system of sewerage into Queen's House, the General Post Office, lavatory at the passenger jetty, and outpatients' department, General Hospital ; extension of Provincial Surgeon's Office, Colombo ; improvements, Colombo Museum ; improvements, Surveyor-General's Office ; extension of Central Telegraph and Telephone Offices ; conversion of old Printing Office into offices for Police, Library, and Excise Office ; additions to Provincial Registrar's Office, Colombo ; Law Courts, Hulftsdorp ; Hendala Leper Asylum ; Registrar-General's Office ; improvement of water supply, Welikada jail ; calf vaccine dépôt, Kanatta ; Training College, Colombo ; and Land Settlement Office have been completed.

51. Progress has been made with the introduction of the water-carriage system of sewerage into the Government buildings in Queen's street and Prince street ; Surveyor-General's Office ; additions to the Training College and Lunatic Asylum, Colombo ; Slave Island Police Station ; operating room, Kalutara hospital.

52. *In the Central Province.*—Additions to the court-house, Hatton ; improvements to apothecary's quarters, Bogawantala ; additions to Bogambra jail ; Ramboda hospital ; cooly lines, Hakgala Gardens ; Police Court, Kandy ; Post Office, Gampola, have been completed.

53. Progress has been made with the additions and improvements to Nuwara Eliya hospital.

54. *In the Northern Province.*—Fence round general cemetery, Mannar, was completed.

55. Progress was made with additions to the Land Registry, Mannar, and Mullaittivu Kachcheri.

56. *In the Southern Province.*—Improvements, Mahamodara hospital ; conversion of the old court-house, Matara, into offices for Land Registrar and Assistant Provincial Registrar ; additions to Public Works Department Office, Hambantota ; Balapitiya hospital ; Tangalla jail ; court buildings, Tangalla ; Galle Kachcheri ; Plague Camp, Galle, were completed.

57. *In the Eastern Province.*—Additions to Forest Office, Batticaloa, and Superintendent of Surveys' quarters, Batticaloa, have been completed.

58. Progress was made with the following :—Addition of operating room, Trincomalee ; improvements, Trincomalee hospital ; additions to Public Works Office, Batticaloa.

59. *In the North-Western Province.*—Addition of a parangi ward at Kurunegala hospital ; additions to Kachcheri, Puttalam ; improvements to Police Magistrate's quarters, Puttalam ; lock-up, Marawila ; improvements and additions to Police Magistrate's quarters, Chilaw ; conversion of old resthouse, Puttalam, into clerks' quarters.

60. Progress has been made with additions to Kurunegala hospital and Chilaw jail.

61. *In the North-Central Province.*—Additions to circuit bungalow, Maha Illuppallama ; fencing Archaeological buildings, Anuradhapura ; and additions to Archaeological Commissioner's house, Anuradhapura, have been completed.

62. Progress has been made with the additions to the Revenue Officer's quarters, Topawewa.

63. *In the Province of Uva.*—The addition of Telegraph store, Bandarawela Post Office ; Assistant's quarters, Badulla Post Office ; additions to Badulla Kachcheri ; survey camp, Diyatalawa, have been completed.

64. Progress has been made with the additions to Medagama hospital and operating room, Badulla hospital.

65. *In the Province of Sabaragamuwa.*—Improvements to Police buildings, Ratnapura, have been carried out.

66. Progress has been made with the additions and improvements, Kegalla hospital, and the addition of temporary wards, Avisawella hospital.

67. *Proposed Works.*—Provision has been made in the Supply Bill of 1912-13 on account of the following new works:—Continuing the introduction of the water-carriage system of sewerage into Government buildings, Colombo; extension of Government Training College, Colombo; additions to Negombo hospital; improvements to Attorney-General's Office; additions and improvements, Telephone Exchange, Colombo; additions, Government Factory, Welikada jail, Nawalapitiya hospital, Police Court, Kandy; improvements, Lindula hospital; grain shed, Kankesanturai; Weligama dispensary; Hambantota hospital; Land Registry Office, Chilaw; Marawila courthouse; Buttala, Badulla, and Lunugala hospitals; surveyors' quarters, Diyatalawa; Karawanella hospital.

BRIDGES.

68. The usual maintenance work has been effected. The platforms of bridges in the Chilaw District require more attention. The work of replacing timber structures by ones of iron and concrete and the paving of the roadway over bridges subjected to heavy traffic have been continued.

NEW BRIDGES.

69. *In the Western Province.*—Timber bridges have been replaced by iron and concrete ones on the Bope-Nambapana and Kosgoda-Pugoda roads.

70. The reconstruction of the bridge at Ja-ela on the Colombo-Negombo road has been commenced. This bridge is of two spans of 55 lineal feet. The central pier and left hand abutment are being constructed on concrete cylinders. The difficulty met with in the foundations and the continuous floods during the past year have delayed the progress of this work.

71. *In the Central Province.*—A new bridge 25 feet span has been constructed on the 5th mile, Nawalapitiya-Craigie Lea road; and the reconstruction of the following bridges has been completed:—Galmuloya bridge, 20th mile, Teldeniya-Nugatenna road; Holyrood bridge, Talawakele; bridge on the 32nd mile, Palapatwela-Galawela road.

72. The following works have been in hand:—Reconstruction of bridge, Madawella-Teldeniya-Nugatenna road; Kurundu-oya bridge, 23rd mile, Rattota road; Sudu-ganga bridge, Matale District.

73. *In the Northern Province.*—Timber bridges on the 3rd mile of the Puttur-Kodikamam and 15th mile of the Jaffna-Karativu roads have been replaced by iron and concrete structures.

74. The construction of bridges at Elephant Pass and on the 3rd mile, Point Pedro-Punnalai road, has been proceeded with.

75. *In the Southern Province.*—Two bridges of 30 feet span on the 6th mile, Hambantota-Tanamalwila road; one bridge of two spans of 25 feet on the 6th mile, Hakmana-Tangalla road; and one bridge of 30 feet span on the 69th mile, Bentota-Goiyapana road, have been completed.

76. *In the Eastern Province.*—Six bridges on the Maduruoya-Eravur road and one on the Sammanturai road have been completed.

77. Bridges at Komari causeway, Udyantandamadu, and Neetyar have been proceeded with.

78. *In the North-Western Province.*—Bridges on the 3rd mile, Kurunegala-Nikaweratiya road; 12th and 16th miles, Dankotuwa-Giriulla road; and 6th mile, Hettipola road, have been completed.

79. The construction of two new bridges on the Toppu-Battuluoya road has been in progress.

80. *In the North-Central Province.*—The Yoda-ela bridge and approaches have been completed.

81. *In the Province of Uva.*—A bridge of two spans of 30 feet on the Wellawaya-Tanamalwila road and the conversion of three timber bridges on the Wellawaya-Pottuvil road have been completed.

82. *In the Province of Sabaragamuwa.*—Bridges on the 13th and 19th miles of the Dolosbage-Rambukkana road; the Morantota bridge; and bridges on 59th, 62nd, 65th, 86th, and 93rd miles, Ratnapura-Halpe road; 48th mile, Avisawella-Ratnapura road, have been completed.

83. The reconstruction of Kitulagala bridge, Yatiyantota-Ginigathena road; Maha-oya bridge, Kegalla-Polgahawela road; bridges on the Veyangoda road, Nambapana road, and at Kahawatta on the Avisawella-Ratnapura road, have been in hand.

84. The reconstruction of the Warakatota bridge, involving the erection of two spans of 78 feet, two spans of 60 feet, and a central span of 140 feet, has been practically completed within the year. The traffic was diverted from the old bridge on March 20, and resumed over the new bridge on July 6. This work was carried out under the immediate supervision of the Factory Engineer.

85. *Proposed Works.*—Provision has been made in the Supply Bill of 1912-13 for the following new works:—New bridge, Puttalam-Kalaoya road, in the North-Central Province; reconstructing Kananke bridge on the Galle-Akuressa road; and continuing the work of replacing timber bridges with ones of iron and concrete.

COLOMBO LAKE DEVELOPMENT PROJECT.

86. During the period under review surveys and borings have been made for the purpose of preparing working drawings. Since Mr. J. Strachan's (Chief Assistant Engineer, Colombo Lake Development Scheme) arrival in September, 1911, considerable progress has been made with detail plans of the works, the excavation for the new canal at San Sebastian has been commenced, two dredgers have been erected and put in use, reclamations have been in progress in both divisions of the lake.

GOVERNMENT FACTORY.

87. This branch of the Department has been in immediate charge of Mr. G. H. M. Hyde. The works carried out during the period under review have been of the usual varied character, as will be seen from the Factory and the Electrical Engineers' reports annexed.

GENERAL.

88. The following tabular statement shows the expenditure under the headings Recurrent, Extraordinary, and Miscellaneous, including Loans and Surplus Balances, during the years 1895 to June 30, 1912, inclusive:—

Year.	Recurrent.	Extraordinary.	Miscellaneous, including Loans.	Total.
	Rs.	Rs.	Rs.	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
1901	2,112,905	1,348,032	666,028	4,126,965
1902	2,163,394	1,448,491	572,143	4,184,028
1903	2,240,086	1,339,699	1,275,968	4,855,753
1904	2,286,812	1,858,657	619,275	4,764,744
1905	2,324,805	1,595,612	370,431	4,290,848
1906	2,582,398	1,901,588	133,083	4,617,069
1907	2,648,741	1,929,416	227,081	4,805,238
1908	2,684,811	1,781,145	1,080,706	5,546,662
1909	2,796,779	1,637,134	1,203,400	5,637,313
1910 to June 30, 1911	4,511,611	2,313,423	3,048,443	9,873,477
July 1, 1911 to June 30, 1912	3,211,341	2,017,577	2,022,372	7,251,290

PUBLIC WORKS OTHER THAN THOSE OF MAINTENANCE.

89. The following works were in progress during the period July 1, 1911, to June 30, 1912:—

CHARGEABLE TO REVENUE.

Western Province.

	Estimated Cost.	Expenditure to June 30, 1911.	Expenditure, July 1, 1911, to June 30, 1912.
	Rs. c.	Rs. c.	Rs. c.
<i>Buildings.</i>			
District Engineer's office, store, and house, Negombo ..	25,500 0 ..	—	4,841 69
Dispensary, Mirigama ..	5,000 0 ..	—	3,976 12
Quarters for constables, Negombo Police Station ..	8,200 0 ..	—	1,601 23
Quarters for Medical Officer, Welikada Jail ..	6,200 0 ..	—	5,893 89
Quarters for District Judge, Kalutara ..	31,100 0 ..	—	14,597 23
New office for Master Attendant, Colombo ..	62,000 0 ..	—	15,456 74
Latrine in the Fort of Colombo ..	11,100 0 ..	—	9,401 84
Telegraph Office, Colombo ..	196,000 0 ..	164,205 32	1,129 71
Officers' quarters, Welikada Jail ..	15,000 0 ..	—	13,062 12
<i>Additions and Improvements to Buildings.</i>			
Latrine, Passenger Jetty, Colombo ..	5,700 0 ..	1,080 27 ..	4,392 90
New drains, &c., General Post Office, Colombo	14,600 0 ..	2,218 17 ..	12,254 12
Queen's House, Colombo ..	3,600 0 ..	—	3,579 15
Telegraph Office, Colombo ..	5,000 0 ..	—	4,689 2
Surveyor-General's Office ..	3,700 0 ..	—	3,661 86
Improvements, Lunatic Asylum ..	24,000 0 ..	—	5,824 74
Operating room, Kalutara Hospital ..	2,450 0 ..	—	1,803 61
Additions, Hendala Leper Asylum ..	10,000 0 ..	—	5,882 92
Additions, Training College, Colombo ..	9,000 0 ..	—	7,338 14
Improvements, Colombo Museum ..	2,194 0 ..	—	1,900 15
Improvements, Registrar-General's Office ..	1,500 0 ..	—	1,431 74
Prince of Wales's Jetty ..	12,570 0 ..	—	9,947 6
Passenger Jetty, Colombo ..	82,300 0 ..	—	15,870 5
Record presses, Provincial Registrar's Office, Colombo ..	1,700 0 ..	—	1,460 18
Provincial Surgeon's Office, Colombo ..	3,100 0 ..	—	3,090 67
Extension of workshops, Government Factory ..	8,300 0 ..	—	8,185 19
Drainage of public buildings, Colombo ..	66,800 0 ..	—	37,063 75
Kochchikade jetties ..	70,000 0 ..	—	15,689 23
Customs buildings, Colombo ..	3,000 0 ..	—	2,157 44
Old Government Printing Office ..	14,700 0 ..	—	9,202 40
Accommodation for prisoners in the Law Courts, Hulftsdorp ..	6,000 0 ..	—	5,818 63
Improvements, Queen's House ..	5,000 0 ..	4,790 85 ..	23 99
Quarters for male attendants, Leper Asylum, Hendala ..	15,400 0 ..	12,311 51 ..	1,724 88
Hot water supply to Queen's House, Colombo ..	3,500 0 ..	1,773 67 ..	880 58
Record shelves, District Court, Negombo ..	1,070 0 ..	586 89 ..	468 60
Improvements, Subsidiary Land Settlement Office ..	1,650 0 ..	1,078 20 ..	230 58
Improvements, Calf Vaccine Dépôt, Kanatta ..	4,100 0 ..	1,754 61 ..	2,343 13

	Estimated Cost.	Expenditure to June 30, 1911.	Expenditure, July 1, 1911, to June 30, 1912.
	Rs. c.	Rs. c.	Rs. c.
Kochchikade jetties	1,100 0	—	1,100 0
Alterations, Government Training College	1,660 0	—	1,610 53
Water supply, Welikada Jail	5,000 0	—	4,922 8
New kitchens, Slave Island Police Station	15,200 0	—	488 50

Additions and Improvements to Roads.

Stone paving of Customs premises	153,679 90	64,283 75	38,409 49
Improving Nagoda-Neboda road	5,000 0	—	3,994 77
Improving Katubedda-Digarolla road	5,000 0	—	3,933 61
Improving Nambapana road	27,600 0	—	13,407 64
Approach road to Siduwa Station	1,100 0	—	1,097 0
Approach road to Kurana-Katunayaka Station	750 0	—	749 49
Approach road Beruwala Station	860 0	—	591 69
Improving 1st mile, Veyangoda-Ruwanwella road	70,000 0	—	2,311 27
Approach road, Lunawa Station	4,800 0	—	4,791 76
Improving, Kosgama-Pugoda road	3,600 0	—	3,199 52
Approach road to Railway goods shed, Panadure	3,200 0	2,214 38	365 0
Improvements to roads in Customs premises	3,824 0	974 50	2,762 74

New Bridges.

Ja-ela bridge	32,500 0	—	13,628 28
---------------	----------	---	-----------

Lands and Buildings to be acquired.

Acquisition of land for the improvement of the Kalutara town	3,600 0	—	3,600 0
Extension of the General Hospital, Colombo, and other Medical buildings	203,128 50	—	203,128 50

Miscellaneous.

Platform to Kalutara bridge	97,500 0	29,470 11	9,370 99
New drains &c., Queen's House, Colombo	27,800 0	13,092 27	14,621 25
Improvements, quarry road, Negombo-Giriulla road	960 0	—	959 95
Boundary wall, Elie House quarry	2,646 0	—	2,397 50
Record presses for Land Registry, Negombo	3,130 0	—	2,855 89
Riding school for Governor's Escort and Cadets	1,000 0	—	989 14
Drains, Customs premises, Colombo	370 0	—	370 0
Electric Cranes, Prince of Wales's Jetty	1,770 0	—	1,766 84
Furnace, Central Telegraph Office	852 0	—	846 40
Portable iron and wood prison	21,700 0	19,319 36	1,029 5
Protection of Government buildings in Colombo from fire	1,627 50	1,435 10	180 79
Roof of tunnel warehouse, Colombo Customs	15,010 60	8,376 25	6,589 21
A portable prison	22,785 0	17,724 95	3,610 42

*Central Province.**Buildings.*

Dispenser's quarters, Bogambra Jail	4,600 0	—	4,359 87
Court-house, Teldeniya	7,300 0	—	3,090 29
Medical Aid Hospital, Maskeliya	62,500 0	61,307 36	136 0
Quarters, Royal Botanic Gardens, Peradeniya	9,999 0	9,914 82	84 18
Quarters for Assistant Provincial Registrar's clerk, Nuwara Eliya	5,300 0	—	4,801 51
Quarters for junior clerks, Nuwara Eliya	8,350 0	—	3,275 64

Additions and Improvements to Buildings.

Nuwara Eliya Hospital	52,000 0	6,002 77	26,379 54
Apothecary's quarters, Bogawantala dispensary	1,500 0	—	1,471 24
Witness shed, Police Court, Kandy	1,800 0	—	1,369 93
Bogambra Jail	2,000 0	—	1,971 38
District Court, Nuwara Eliya	1,600 0	—	1,489 40
Materials for sheds, Bogambra Jail	3,000 0	—	2,991 18
Ramboda hospital	6,400 0	—	4,899 58
Latrines for cooly lines, Hakgala Gardens	1,400 0	—	1,399 73
Conversion of Grand Central Hotel into public offices	12,000 0	—	11,992 42
Additions and improvements to Post Office, Gampola	4,300 0	2,498 44	1,355 59
Additions, nurses' quarters, Kandy Hospital	8,000 0	7,624 44	10 0

New Roads.

Norwood-Upcot-Glenugie road	75,000 0	63,203 90	8,093 85
Rahatungoda-Deltota road	158,000 0	131,387 22	26,509 31
Gampola-Dolosbagé road	35,000 0	34,924 6	75 75

	Estimated Cost.	Expenditure to June 30, 1911.	Expenditure, July 1, 1911, to June 30, 1912.
	Rs. c.	Rs. c.	Rs. c.
<i>Additions and Improvements to Roads.</i>			
Improvements to three miles, Palapatwela-Galawela road	14,000 0 ..	10,220 96 ..	3,090 69
Improvements, Udapihilla road	10,000 0 ..	9,138 75 ..	858 0
Deviating Tawalantenna-Watagoda road	50,000 0 ..	6,578 11 ..	7,789 49
Improvements, Palapatwela-Galawela road	16,000 0 ..	— ..	10,193 76
Metalling approach road, Queen's Cottage	1,650 0 ..	— ..	1,635 36
Deviation of approach road to Queen's Cottage	2,740 0 ..	— ..	2,407 32
<i>New Bridges.</i>			
Bridge, Nawalapitiya-Craigie Lea road	4,500 0 ..	— ..	4,289 53
<i>Lands and Buildings to be acquired.</i>			
Acquiring the buildings Rock View and St. Louis for a Post Office, &c., Nawalapitiya	15,000 0 ..	— ..	13,500 0
Preserving privacy and amenities of Queen's Cottage and Bowscar, &c...	48,675 0 ..	— ..	48,675 0
<i>Miscellaneous.</i>			
Water service, Lindula Police Station	1,816 0 ..	— ..	1,608 36
Recreation ground, Bogambra	1,150 0 ..	— ..	1,137 1
Drains, Pussellawa bazaar	1,500 0 ..	749 66 ..	727 19
Drains, Dimbula bazaar	2,638 2 ..	— ..	2,621 23
Drains, Padiyapelella bazaar	4,050 0 ..	— ..	3,931 77
Water supply, Experiment Station, Peradeniya	7,000 0 ..	6,899 41 ..	99 49
<i>Northern Province.</i>			
<i>Buildings.</i>			
Bungalow for Assistant Conservator of Forests, Jaffna	21,420 0 ..	7,258 7 ..	14,099 18
Police buildings, Talaimannar	57,000 0 ..	— ..	8,172 89
<i>Additions and Improvements to Buildings.</i>			
Fencing, General Cemetery, Mannar	2,200 0 ..	1,090 79 ..	581 26
Grain shed, Valvedditturai	2,800 0 ..	— ..	2,765 56
Grain shed, Customs, Jaffna	5,200 0 ..	— ..	5,112 31
Land Registry, Mannar	3,300 0 ..	— ..	2,970 41
Land Registry, Mullaittivu	2,100 0 ..	— ..	1,936 58
Ceilings to buildings	27,500 0 ..	— ..	9,245 52
<i>New Roads.</i>			
Paranthan-Karachchi road	241,700 0 ..	128,912 61 ..	1,095 34
Coast road, Talladi-Vangalai section	19,000 0 ..	18,071 29 ..	451 60
Pandichuddan-Kandalvalai road	17,200 0 ..	11,051 9 ..	2,453 87
Talladi-Pappamoddai road	45,000 0 ..	— ..	13,528 92
Puliyadyirakkam-Madhu road	37,000 0 ..	— ..	15,921 42
Improvement of Mantai-Illuppaikadavai road	97,250 0 ..	96,354 41 ..	576 0
Improving road from Mannar Railway Station	8,200 0 ..	7,299 89 ..	486 5
<i>Additions and Improvements to Roads.</i>			
Metalling Vavuniya-Parayanalankulam road	39,000 0 ..	7,092 61 ..	5,770 22
Metalling Paranthan-Karachchi road	10,000 0 ..	7,508 68 ..	680 61
<i>New Bridges.</i>			
Bridge at Elephant Pass	13,500 0 ..	5,850 19 ..	5,494 6
Bridge, Point Pedro-Punnalai road	3,800 0 ..	— ..	576 91
<i>Repair of Bridges.</i>			
Conversion of bridge, 3rd mile, Puttur-Kodikamam road	19,500 0 ..	11,498 15 ..	3,069 92
<i>Miscellaneous.</i>			
Ferry boat, Kayts	2,500 0 ..	137 46 ..	2,335 30
<i>Southern Province.</i>			
<i>Buildings.</i>			
Tissamaharama hospital	49,500 0 ..	— ..	16,563 40
Quarters for Forest Ranger, Yala	2,750 0 ..	— ..	1,620 44
<i>Additions and Improvements to Buildings.</i>			
Galle hospital	5,750 0 ..	— ..	5,412 71
Conversion of District Court, Matara	6,500 0 ..	— ..	6,480 39
Public Works Department Office, Hambantota	3,000 0 ..	— ..	2,920 8
Balapitiya Hospital	1,495 0 ..	— ..	946 20
Tangalla Jail	1,550 0 ..	— ..	1,380 50
District Court and connected buildings, Tangalla	5,100 0 ..	— ..	4,214 31
Police Magistrate's quarters, Balapitiya	2,500 0 ..	— ..	2,488 28
Galle Kachcheri	3,250 0 ..	— ..	2,392 78
Storeroom, Plague Camp, Galle	1,600 0 ..	135 10 ..	1,464 43

	Estimated Cost.	Expenditure to June 30, 1911.			Expenditure, July 1, 1911, to June 30, 1912.	
		Rs.	c.	Rs.	c.	Rs.
<i>Additions and Improvements to Roads.</i>						
Further improvements, Tangalla-Hambantota road ..	32,000 0 ..	15,410	94	12,432	20	
Improvements, Hambantota-Tanamalwila road ..	44,300 0 ..	33,717	16	8,980	78	
Dikwella-Beliatta road ..	4,250 0 ..	—	—	4,239	11	
Liyangahatota road ..	2,500 0 ..	—	—	1,665	64	
Re-metalling Lewaya road ..	2,700 0 ..	—	—	2,317	80	
Re-metalling Tangalla-Hambantota road, 140th-147th miles ..	9,000 0 ..	—	—	7,992	72	
Approach road, Matara Station ..	525 0 ..	—	—	520	50	
Improvements, Galle-Udugama road ..	6,700 0 ..	4,528	71	1,747	27	

New Bridges.

Bridges, Matara-Akuressa road ..	6,000 0 ..	—	—	5,996	10
----------------------------------	------------	---	---	-------	----

Miscellaneous.

Water service to public buildings, Galle ..	7,950 0 ..	—	—	6,509	74
Water supply, Hambantota Residency ..	3,530 0 ..	—	—	2,059	12
Road drains at Tahagoda and Hakmana ..	2,900 0 ..	—	—	2,896	77
Repairing sea encroachment, Goyapana-Tangalla road ..	1,500 0 ..	—	—	1,488	50

*Eastern Province.**Buildings.*

Plague Camp at Trincomalee ..	9,100 0 ..	7,097	17	2,000	0
Dispensary, Tiriayi ..	2,500 0 ..	—	—	384	34
Dispensary, Tamblegam ..	4,400 0 ..	—	—	817	21
Kalmunai Hospital ..	3,100 0 ..	—	—	3,099	11
Rat proof fence, Plague Hospital, Trincomalee ..	1,780 0 ..	1,336	71	437	65

Additions and Improvements to Buildings.

Operating room, Trincomalee Hospital ..	2,650 0 ..	—	—	1,534	71
Improvements, Trincomalee Hospital ..	3,000 0 ..	—	—	1,374	74
Forest Office, Batticaloa ..	2,300 0 ..	—	—	2,283	82
Superintendent of Surveys' quarters, Batticaloa ..	1,720 0 ..	—	—	1,544	80
Public Works Department Office, Batticaloa ..	5,000 0 ..	—	—	2,998	82

Additions and Improvements to Roads.

Pottuvil-Muppane road further extension ..	37,600 0 ..	28,508	4	1,999	24
Pottuvil-Muppane road extension ..	47,400 0 ..	8,344	55	39,049	7
Improving Nilaveli-Kuchchaveli road ..	5,000 0 ..	—	—	1,005	35
Track metalling Coast road south, Kalmunai ..	7,700 0 ..	—	—	6,335	51
Track metalling Akkaraipattu-Sagamam road ..	5,500 0 ..	—	—	5,488	71
Track metalling road from the resthouse to the bar, Batticaloa ..	4,150 0 ..	—	—	4,148	22
Komari causeway ..	8,500 0 ..	—	—	5,406	81
Improving approach road to north salt stores, Nilaveli ..	1,300 0 ..	—	—	1,299	90

Miscellaneous.

Drains along Dutch Point road ..	1,708	50	—	1,115	37
Kalladi ferry, Batticaloa ..	30,000	0 ..	24,919	57	24 39

*North-Western Province.**Buildings.*

Quarters for clerks, Puttalam ..	9,100 0 ..	—	—	9,084	64
Quarters for Superintendent of Surveys, Kurunegala ..	22,000 0 ..	8,375	37	11,043	23
Quarters for Police Magistrate, Kurunegala ..	22,000 0 ..	17,716	46	4,062	59
Mawatagama dispensary ..	5,500 0 ..	—	—	5,499	6
Apothecary's quarters, Marawila ..	3,000 0 ..	—	—	2,972	91

Additions and Improvements to Buildings.

New female parangi ward, Kurunegala Hospital Building for Registration Department and Kachcheri records, Puttalam ..	8,970	0 ..	—	—	8,494	82
Police Magistrate's quarters, Puttalam ..	16,140	0 ..	5,783	93	10,349	75
Land Registry, Kurunegala ..	3,500	0 ..	—	—	3,498	31
Kurunegala Hospital ..	2,600	0 ..	—	—	2,264	1
Chilaw Jail ..	17,630	0 ..	—	—	4,287	42
Marawila lock-up ..	3,050	0 ..	—	—	1,354	80
Police Magistrate's quarters, Chilaw ..	2,150	0 ..	—	—	2,053	2
Converting old resthouse, Puttalam, into clerks' quarters ..	8,200	0 ..	—	—	8,013	25

New Roads.

Alawwa-Dampelessa road ..	173,700	0 ..	47,612	72	15,981	5
---------------------------	---------	------	--------	----	--------	---

	Estimated Cost.		Expenditure to June 30, 1911.		Expenditure, July 1, 1911, to June 30, 1912.
	Rs. c.		Rs. c.		Rs. c.
<i>Additions and Improvements to Roads.</i>					
Improving Maho-Nikawewa road ..	72,000 0 ..		41,266 51 ..		30,603 86
Improving minor road from Galgamuwa to Nikawewa ..	112,400 0 ..		49,030 33 ..		39,940 79
Improvements, Akkaraipattu road, Puttalam district ..	9,400 0 ..		5,068 0 ..		4,317 58
Madampe Chetty street ..	300 0 ..		— ..		119 64
Giriulla-Dankotuwa road ..	3,360 0 ..		— ..		3,345 27
Narammulla-Dummalasuriya road ..	80,800 0 ..		— ..		3,487 33
Chilaw-Wariyapola road ..	7,500 0 ..		— ..		7,497 1
Kurunegala-Giriulla road ..	3,400 0 ..		— ..		3,208 51
Toppu-Dankotuwa road ..	1,500 0 ..		— ..		1,181 61
Kammala-Dankotuwa road ..	2,400 0 ..		— ..		2,067 85
<i>New Bridges.</i>					
Bridge, Toppu-Battuluoya road ..	13,500 0 ..		— ..		1,565 50
Bridge over the Gin-oya at Lunuwela ..	52,726 0 ..		— ..		1,084 16
<i>Lands and Buildings to be acquired.</i>					
Acquisition of Wariyapola resthouse ..	4,000 0 ..		— ..		4,000 0
<i>Miscellaneous.</i>					
Edinburgh street and Puttalam road, Kurunegala ..	651 0 ..		— ..		651 0
Drains along the Puttalam, Kandy, and Negombo roads ..	1,865 0 ..		— ..		1,865 0
Retaining wall, Madampe ..	6,700 0 ..		6,076 34 ..		75 96
<i>North-Central Province.</i>					
<i>Buildings.</i>					
Conversion of two temporary wards, Anuradhapura Hospital, into permanent ones ..	18,800 0 ..		11,853 74 ..		6,135 42
Extension of Kachcheri, Anuradhapura ..	30,000 0 ..		762 4 ..		4,844 58
Kahatagasdigiliya dispensary ..	5,850 0 ..		— ..		2,202 31
Bungalow for Assistant Conservator of Forests, Anuradhapura ..	22,000 0 ..		— ..		3,755 87
<i>Additions and Improvements to Buildings.</i>					
Revenue Officer's quarters, Topawewa ..	1,550 0 ..		— ..		507 90
Public Works Department bungalow, Maha Illupallama ..	1,900 0 ..		— ..		1,753 32
Fencing Archaeological buildings, Anuradhapura ..	3,310 0 ..		— ..		3,211 6
Portico for Archaeological Commissioner's house ..	1,500 0 ..		— ..		1,498 43
<i>Additions and Improvements to Roads.</i>					
Track metalling Habarana-Polonnaruwa road ..	46,000 0 ..		33,026 18 ..		10,006 13
Kekirawa-Galawela road ..	3,500 0 ..		— ..		3,086 58
<i>New Bridges.</i>					
Bridge across the Yoda-ela ..	2,400 0 ..		1,225 90 ..		1,021 64
<i>Miscellaneous.</i>					
Construction of galas ..	420 0 ..		299 75 ..		105 50
Fencing the Thuparama Siva Dewale site, Polonnaruwa ..	3,125 0 ..		651 54 ..		385 75
Galas, Matale-Trincomalee road ..	2,100 0 ..		— ..		926 74
Fencing the flower garden, Anuradhapura ..	1,800 0 ..		— ..		1,303 28
<i>Province of Uva.</i>					
<i>Buildings.</i>					
Apothecary's quarters, Namunukula ..	2,210 0 ..		882 11 ..		1,315 51
Workshop, Public Works Department, Passara ..	1,100 0 ..		— ..		1,092 83
Passara Hospital ..	78,000 0 ..		— ..		600 19
Temporary ward, Badulla Hospital ..	7,550 0 ..		— ..		7,509 86
<i>Additions and Improvements to Buildings.</i>					
Telegraph store, Bandarawela ..	3,700 0 ..		— ..		3,699 86
Assistant's quarters, Post Office, Badulla ..	5,000 0 ..		— ..		4,758 67
Medagama Hospital ..	3,660 0 ..		— ..		1,723 0
Operating room, Badulla Hospital ..	2,275 0 ..		— ..		1,701 40
Badulla Kachcheri ..	3,700 0 ..		— ..		3,627 91
Survey Camp, Diyatalawa ..	5,000 0 ..		— ..		4,983 51
Improvements to Rose Bank, Badulla ..	5,500 0 ..		— ..		1,644 71
<i>New Roads.</i>					
Bandarawela-Welimada road ..	273,650 0 ..		147,817 6 ..		62,803 75
Completing new bridle path, Passara to Nakkala ..	15,000 0 ..		13,256 32 ..		— ..
Road from Taldena towards Alutnuwara ..	300,713 0 ..		19,998 78 ..		28,990 50
Muppane-Pottuvil road ..	73,900 0 ..		— ..		23,866 66

	Estimated Cost. Rs. c.	Expenditure to June 30, 1911. Rs. c.	Expenditure, July 1, 1911, to June 30, 1912. Rs. c.
<i>Additions and Improvements to Roads.</i>			
Track metalling Bibile-Medagama-Muppane road ..	42,400 0 ..	27,745 68 ..	12,487 30
Track metalling the first 5 miles Bibile-Alutnuwara road ..	8,000 0 ..	7,299 21 ..	679 72
Junction of Haldummulla-Wellawaya road ..	8,500 0 ..	— ..	8,136 68
Re-surfacing of Badulla-Bandarawela road ..	20,700 0 ..	20,700 0 ..	—
<i>New Bridges.</i>			
Bridge, Wellawaya-Tanamalwila road ..	14,000 0 ..	— ..	13,354 99
<i>Repair of Bridges.</i>			
Conversion of three bridges, Wellawaya-Pottuvil road ..	26,000 0 ..	21,631 22 ..	2,980 43
<i>Lands and Buildings to be acquired.</i>			
Acquisition of Rose Bank for the quarters of the Provincial Surgeon, Badulla ..	10,274 75 ..	— ..	9,000 0
<i>Miscellaneous.</i>			
Improving water supply, Diyatalawa Camp Galas, Wellawaya-Tanamalwila road ..	4,000 0 .. 4,500 0 ..	2,887 23 .. — ..	904 18 4,498 27
<i>Province of Sabaragamuwa.</i>			
<i>Buildings.</i>			
Quarters for four Public Works Department clerks, Ratnapura ..	10,000 0 ..	— ..	5,980 76
Police Court, Balangoda ..	11,550 0 ..	5,199 57 ..	4,992 69
Police lock-up and quarters, Pelmadulla ..	4,200 0 ..	3,346 55 ..	846 0
<i>Additions and Improvements to Buildings.</i>			
Additions and improvements, Kegalla Hospital ..	5,000 0 ..	— ..	66 12
Female ward, Kegalla Hospital ..	8,800 0 ..	— ..	115 11
Police buildings, Ratnapura ..	2,370 0 ..	— ..	2,369 91
Temporary wards, Avisawella Hospital ..	3,500 0 ..	— ..	2,474 21
<i>New Roads.</i>			
Kukulu korale road, 3rd section ..	136,000 0 ..	— ..	67,331 82
<i>Additions and Improvements to Roads.</i>			
Madampe-Hambantota road ..	35,000 0 ..	— ..	4,115 75
<i>Repair of Bridges.</i>			
Warakatota bridge, Ratnapura-Halpe road ..	133,000 0 ..	23,321 80 ..	77,660 47
Kitulgala bridge, Avisawella district ..	28,500 0 ..	— ..	14,116 65
Bridge, Kegalla-Polgahawela road ..	102,400 0 ..	— ..	9,300 42
<i>General.</i>			
<i>Buildings.</i>			
Public Works Department type lines and overseers' quarters ..	37,510 93 ..	— ..	27,401 56
<i>Repair of Bridges.</i>			
Conversion of timber bridges ..	99,670 31 ..	— ..	48,811 32
Strengthening and renewing obsolete girder bridges ..	115,177 87 ..	— ..	53,857 39
<i>Miscellaneous.</i>			
Hull for dredger, Batticaloa lake ..	13,500 0 ..	13,174 30 ..	325 70
Improvements to sanitation, Public Works Department cooly lines ..	1,000 0 ..	— ..	960 9
Improvements to dangerous corners on public roads ..	29,790 47 ..	— ..	20,355 7
Six steam rollers ..	100,000 0 ..	— ..	85,779 63
Flood damages ..	82,872 0 ..	— ..	51,275 42

Chargeable to Loans and Surplus Balances.

Colombo Lake ..	3,000,000 0 ..	7,510 30 ..	108,734 47
Jaffna Reclamation ..	150,000 0 ..	25,808 25 ..	38,655 20
Printing Office ..	268,000 0 ..	221,182 39 ..	12,022 75
Police Stations ..	442,000 0 ..	109,135 81 ..	152,091 15
Nuwara Eliya Electric Lighting ..	200,000 0 ..	145,333 11 ..	47,830 91
Colombo Customs (quay wall and jetties) ..	530,000 0 ..	251,999 45 ..	65,146 60
Colombo Customs (warehouses) ..	320,000 0 ..	319,549 17 ..	450 50
Hospitals ..	596,000 0 ..	228,365 94 ..	86,326 16
Hospitals (Infectious Precautions) ..	300,000 0 ..	77,389 74 ..	80,694 76
Water Supply to Towns ..	800,000 0 ..	87,855 49 ..	29,672 90
Roads and Bridges ..	1,750,000 0 ..	440,071 67 ..	262,464 56
Royal College ..	250,000 0 ..	59,421 81 ..	90,551 9
Medical College ..	500,000 0 ..	1,330 0 ..	21,778 48
Extension of General Treasury ..	100,000 0 ..	2,281 51 ..	42,707 52
Wireless Telegraph Station ..	34,445 0 ..	— ..	25,885 24
Bandarawela Motor Mail Service ..	58,500 0 ..	— ..	10,540 17

90. Among the more important works carried out in the head office, in addition to checking and revising plans and estimates received from the Provinces, may be mentioned—

(a) The final alignment, grading, and particulars of connected works were laid out on the surveys and sections of the following roads :—

Madampe-Hambantota road improvements	..	4 miles from	85 to 89 milepost.
Bandarawela-Welimada road	..	5 do.	9 to 14 do.
Uraniya-Alutnuwara road	..	3 do.	11 to 14 do.
Do.	..	3 do.	14 to 17 do.
Do.	..	6 do.	17 to 23 do.
Puliyadyirakkam-Madhu road	..	6½ do.	0 to 6½ do.
Mallowapitiya-Rambodagala road	..	5 do.	9 to 14 do.
Watagoda-Talawakele road	..	4½ do.	0 to 4½ do.
Hunugewatta-Woodend road	..	6 do.	0 to 6 do.
Hunuwela-Kahawatta road	..	3 do.	0 to 3 do.
Passara-Nakkala road	..	1 do.	18th mile.
Do.	..	4 do.	13 to 17 milepost.
St. Andrew's to Pedro road	..	½ do.	0 to ½ do.
Hakmana-Timbukketiya road	..	8 do.	0 to 8 do.
Do.	..	3 do.	8 to 11 do.
Total Mileage		.. 62½	

(b) The preparation of preliminary sketches and estimates for—

Rebuilding of General Hospital.
Quarters for Government servants.
Residence for Colonial Secretary, Nuwara Eliya.
Police Barracks, Kurunegala.
Hospital, Kegalla.
Police Headquarter Offices, Colombo.
Post Office, Ratnapura.
Engineer, Volunteer Headquarters.
Leper Asylum, Batticaloa.
Water supply, Police Training School, Mount Lavinia.
Water supply, Balangoda Hospital.
Water supply, Hambantota.
Water supply, Tangalla.
Water supply, Kurunegala.
Improvements to water supply, Diyatalawa.
Improvements to water supply, Vaccine Station.
Improvements to Colombo Customs.

(c) The preparation of working drawings and estimates for—

Cooly Camp, Paumben.
Cooly Camp, Ragama.
Wireless Telegraph Station.
Adapting old Government Printing Office.
Police Training School, Mount Lavinia.
Extensions to Customs buildings.
Infectious Diseases Hospital, Badulla.
Infectious Diseases Hospital, Alutnuwara.
Batticaloa water supply.
Mannar water supply.

(d) The preparation of detail drawings for works in progress :—

Medical College.
Treasury extension.
New Royal College (science fittings).
Pilot Tower.

(e) The preparation of working drawings for—

Resthouse, Ratnapura.
District Engineer's quarters, Negombo.
Itinerating Police Magistrate's residence, Kuliayapitiya.
District Judge's residence, Kalutara.
Drainage of various public buildings.
Ja-ela bridge.
Tuntota bridge.
Improvements to Deduru-oya bridge.
Tripichang bridge.
Leangahawela bridge.
Goiyapana bridge.
Pol-oya bridge.
Improvements to spill, Nuwara Eliya lake.
Warehouses on the old coaling grounds, Colombo.
Galle jetty.
Slipway, Karaiyur reclamation.
Port light, Tower, Batticaloa.
Port light, Tower, Hambantota.

91. *Proposed Cooly Dépôt and Quarantine Camp, Paumben.*—Complete plans and estimates have been prepared for a cooly dépôt and quarantine camp at Tangachchimadam, Paumben island, South India, in connection with the Indo-Ceylon Railway, in accordance with instructions contained in the Colonial Secretary's letter No. 157 dated February 27, 1912.

92. The project provided for enclosing 158 acres of land, the erection of a quarantine camp to accommodate 3,000 persons, a segregation camp to accommodate 300 persons, and a third class passenger camp to accommodate 600 persons.

93. Each camp being divided into divisions and sections entirely cut off from each other by wire entanglements, so as to admit of complete isolation of infected parties in case of need. Each section was provided with complete kitchen, latrine, and bathing accommodation.

94. Provision was also made for a smallpox hospital of 8 beds, a cholera hospital of 48 beds, and a general hospital of 16 beds. Accommodation was provided for the Superintendent, Assistant Superintendent, Medical Officer, clerks, police, peons, kitchen coolies, sweepers, scavengers, watchers, together with all necessary stores, offices, incinerators, crematorium, and connected buildings, and a resthouse for first and second class passengers.

95. The project also included complete drainage and water supply systems.

96. Total estimated cost of the project, Rs. 882,000.

97. The reports received on the chemical and bacteriological examination of the water available at Tangachchimadam having proved unsatisfactory, and efforts to obtain purer water in the vicinity not, meeting with success, further investigations have been carried out at Mandapam on the Indian mainland where it is now proposed to establish the cooly dépôt and camp.

98. *Reconstruction of Ragama Camp.*—Under instructions conveyed in the Colonial Secretary's letter No. 883 dated November 1, 1911, complete plans and estimates were prepared for the reconstruction of Ragama camp.

99. The project includes the construction of a permanent camp in twenty divisions, each division providing accommodation for 100 to 150 persons.

100. Provision is made for surrounding the camp with a barbed wire fence and separating the divisions by wire entanglement.

101. In addition to the permanent camp, the project included the laying out and fencing of an area to be reserved for a temporary camp when necessity arises, the only buildings proposed to be erected at present being kitchens, latrines, and bathing places.

102. The total estimated cost, including drainage, water supply, offices and stores, quarters for second class passengers, camp guards, and coolies, is Rs. 370,000.

STAFF.

103. From July 1, 1911, to date the following officers were appointed and assumed duties on the dates mentioned:—

Name.	Designation.	Date assumed duty.
Mr. A. J. R. Scharenguivel	Assistant Engineer	July 26, 1911
Mr. E. W. Bartholomew	do.	do.
Mr. H. P. G. Young	District Engineer	do.
Mr. C. H. Linnell	do.	do.
Mr. J. Gray	Mechanical and District Engineer, Government Factory	July 31, 1911
Mr. A. S. Barker	Assistant Engineer	August 16, 1911
Mr. C. H. Bradley	do.	August 30, 1911
Mr. F. G. Stevens	do.	September 21, 1911
Mr. J. Strachan	Chief Assistant Engineer, Colombo Lake Development Scheme	September 21, 1911
Mr. T. H. Leader	Assistant Engineer	October 13, 1911
Mr. J. C. Cooper	do.	do.
Mr. H. N. Worth	do.	October 20, 1911
Mr. W. G. Scott	do.	October 28, 1911
Mr. E. B. Bowen	do.	November 2, 1911
Mr. C. G. Schokman	do.	January 10, 1912
Mr. S. J. Kirby	do.	September 18, 1912

104. During the period under review the following senior officers were on leave:—Mr. T. H. Chapman, Assistant Director of Public Works; Mr. H. F. Tomalin, Provincial Engineer; Mr. P. M. Bingham, Provincial Engineer; Mr. G. Waddell, Provincial Engineer; Mr. H. T. Creasy, Provincial Engineer; Mr. H. B. Lees, Second Assistant Director of Public Works; Mr. R. A. Powell, District Engineer; Mr. R. G. Carte, District Engineer; Mr. A. H. F. Clarke, District Engineer; Mr. A. N. Robertson, District Engineer; Mr. H. L. Grocock, District Engineer; Mr. D. K. McMinn, District Engineer; Mr. W. B. Gregson, District Engineer; Mr. S. M. S. Rajasooria, District Engineer; Mr. C. C. Fielder, District Engineer; Mr. R. G. Bartholomew, District Engineer.

105. The office of Provincial Engineer in the several Provinces has been held by—

Mr. A. E. Caldigott, Western Province.	Mr. A. Rothwell, North-Western Province.
Mr. W. C. Price, Central Province.	Mr. H. T. Creasy } North-Central Province.
Mr. A. de C. Carson, Northern Province.	Mr. A. E. Mayes } North-Central Province.
Mr. H. F. Tomalin } Southern Province.	Mr. C. F. Emerson, Province of Uva.
Mr. E. H. Vanderstraaten } Southern Province.	Mr. G. Waddell } Province of Sabaragamuwa.
Mr. R. A. Powell } Eastern Province.	Mr. R. G. Carte }
Mr. P. M. Bingham }	

106. Mr. H. B. Lees acted as Extra Assistant Director of Public Works during the absence on leave of Mr. T. H. Chapman.

107. Mr. A. E. Vanderstraaten, District Engineer, was retired on account of ill-health after ten years' service.

108. The approaching retirement of Mr. C. A. Lovegrove, who joined this Department as a District Engineer in June, 1886, was promoted to the grade of Provincial Engineer in May, 1900, appointed Assistant Director of Public Works in May, 1903, and has twice acted as Director of Public Works, will deprive this Department of the services of a most able officer. During the ten years that he has been associated with me in the head office the work of the Department, as may be seen from the annual Administration Reports, has enormously increased, not only as regards the actual expenditure, but also as regards the magnitude and variety of works the Department has been called upon to undertake. His thorough general knowledge, his keen interest in all matters connected with the Department and its employés from the highest to the lowest, and his ever readiness to take his full share of the work during a period of exceptional stress, has rendered him a most invaluable officer. I cannot conclude this report without placing on record my personal indebtedness to him for the valuable and loyal assistance he has at all times ungrudgingly given me, and expressing my regret that this Department is so shortly losing his services.

FRANCIS A. COOPER,
Director of Public Works.

Colombo, October 19, 1912.

REPORT OF THE FACTORY ENGINEER FOR 1911-12.

FROM July 1, 1911, to June 30, 1912, 605 Factory orders were received for execution, which together with a balance of 102 carried forward from 1910-11 makes a total value of Rs. 1,874,108·38.

2. The expenditure during the twelve months under review has been Rs. 1,228,976·56, divided as follows on the different votes:—

<i>Recurrent.</i>	Rs.	c.	Rs.	c.	
Maintenance of Roads ..	7,560	38	Additions and Improvements to Roads ..	51,283	51
Maintenance of Inland Navigation ..	145	0	New Bridges ..	11,526	8
Maintenance of Buildings ..	48,463	9	Repairs of Bridges ..	136,683	8
Repairs to Buildings ..	4,368	58	Miscellaneous ..	119,528	72
Additions to Buildings ..	4,316	83			
Repairs to Bridges ..	2,566	89			
Miscellaneous ..	239,218	11			
<i>Extraordinary.</i>					
New Works and Buildings ..	16,977	35	Other Funds ..	109,255	14
Alterations and Additions to Buildings ..	68,920	56	Works chargeable to Surplus Balances ..	291,930	98
New Roads ..	16,297	93	Works chargeable to Loans ..	96,638	50
			Branch Road Funds ..	3,295	83
			Total ..	1,228,976	56

Recurrent.

3. The expenditure of Rs. 306,638·88 is for the general maintenance of buildings, bridges, and roads, as well as small additions thereto during the year.

Extraordinary.

4. *New Works and Buildings.*—Expenditure Rs. 16,977·35. The expenditure includes the final completion of the Telegraph and Telephone Exchanges, Fort, Colombo.

New offices for the Master Attendant, Colombo, upon the site of the old Pilot Tower, were commenced in January of this year. Owing to the site of the new building being upon one of the bastions of the old Colombo fortifications, which had been filled in with made earth, it was found necessary to erect the new building upon a raft of concrete reinforced with two layers of expanded metal. The foundations were completed in May, and rapid progress has been made with the brickwork, which has now reached the height of the first floor. This work would have been still further advanced, but owing to labour troubles in England the ironwork has not arrived for erection.

5. *Alterations and Improvements to Buildings.*—Expenditure Rs. 68,920·56. Under this head is included the cost of widening the shore end of the Prince of Wales's jetty in the Fort, Customs. This improvement was badly needed, as the old connection with the shore was only 30 feet wide and the jetty 56 feet wide. The structural work is well advanced, there only remaining some earth filling, iron fenders, and a short length of quay walling to complete. This addition on completion will provide 1,850 square feet of jetty area and 1,066 square feet of yard area reclaimed from the sea.

Owing to the enormous passenger traffic and increase of shipping of the Port of Colombo, it was found necessary to extend the passenger jetty another 120 feet in length. The extension is to be of the same design as the existing jetty. Work was commenced in January of this year, and is well in hand; the whole of the 5-ft. diameter concrete cylinders upon which the superstructure is to be erected have been sunk to a depth of 10 feet below the bed of the harbour with a minimum depth of 20 feet below mean sea level. The iron roof and superstructure is well in hand at the Factory.

Extensive corrosion having set in below the water line of the iron piles upon which the two landing jetties at Kochchikade are erected, it was considered necessary to replace them with a more permanent understructure, *i.e.*, by the substitution of concrete cylinders, but as both jetties could not be closed for reconstruction at the same time, the southern jetty was put in hand first in September last. Twelve iron piles have been removed and eighteen 5-ft. diameter concrete cylinders have been sunk in their places to a depth of 10 feet below the bed of the harbour, making 28 feet below mean sea level. The concrete cylinders have been reinforced with the old piles, and the heads of the concrete cylinders have been connected together both longitudinally and transversely with reinforced concrete beams. The timber work of the decking is well in hand.

The usual number of doors, windows, presses, and gutters, together with an extension 100 feet long and 12 feet wide for the Factory carpenters' workshop, and a complete hot water service for Queen's House, Colombo, were supplied during the year.

New Roads.

6. Expenditure Rs. 16,297·93. The expenditure under this head is for the usual small iron bridges on these roads, besides the cost of one span 60 feet and six other spans on the Kukulu korale road, and one of 30 feet span on the Puliadyirakkam-Madhu road.

Additions and Improvements to Roads.

7. Expenditure Rs. 51,283·51. A further extension of 257 squares of stone paving within the Fort and Kochchikade Customs roads and yards have been completed this year. Work at Kochchikade was suspended for over six months on account of the proposed widening of Seabeach road, but as this scheme has, however, been abandoned, work was resumed. The completion of the paving within the Fort Customs is deferred until the alterations to the loop line in front of the Principal Collector of Customs, Office have been completed by the Railway Department.

Besides smaller bridges, the expenditure includes cost of the ten spans of 30 feet and five smaller ones on the Pottuvil-Muppane road, three bridges on the Galgamuwa-Nikawewa road, and one on the Veyan-goda-Ruanwella road.

New Bridges.

8. Expenditure Rs. 11,526·08. This expenditure is for two spans of 30 feet on the Wellawaya-Tanamalwila road, one span 25 feet on the Nawalapitiya-Craigie Lea road, and two spans 55 feet 6 inches for the Ja-ela bridge, besides smaller bridges. Ironwork for some of these bridges and for work generally has been delayed considerably owing to strike difficulties in England.

Repairs of Bridges.

9. Expenditure Rs. 136,683·08. This expenditure includes the work done in connection with the replacing of the three old brotherhood spans at Warakatota, Ratnapura, with two abutment spans of 78 feet and two intermediate 60 feet spans of the lattice girder type, as well as one central span 140 feet of the bowstring type. The splitting up of the old shore spans into two necessitated the erection of two additional piers, each composed of two pairs of 7-ft. diameter concrete cylinders sunk to a depth of 41 feet below ground level, making a total depth of 72 feet, the upper part of the cylinders above ground being of 5-ft. diameter concrete cylinders. The traffic on the old bridge was diverted on March 20 and resumed on the new bridge on July 6.

An old disused minor road of about three-quarters of a mile in length had to be utilized for a temporary road, and along this had to be erected a timber staging 400 feet in length to cross an irrigation ela, and in order to cross the Kalu-ganga river a temporary bridge 450 feet in length and 20 feet in height above the river.

Considerable difficulty was, however, experienced in maintaining this temporary road owing to an abnormally wet season and the sudden rise of the river of 27 feet to 32 feet on three different occasions, which flowed over the top decking of the temporary bridge to a height of some 5 to 7 feet. The bridge on completion will have a continuous stone paved flooring its whole length of 453 feet, and the reconstruction is much appreciated in the Ratnapura District.

The expenditure under this heading also provided for the cost of sixteen small bridges, as well as seven bridges on Maduruoya-Eravur road, three in the Dandugama district, two bridges upon the Bope-Nambapana road, two 30 feet spans on the Hambantota-Tanamalwila road, and one each on the Kegalla-Polgahawela and Gintota roads.

Several large spans of 55 feet and over for various roads were ordered during the year, but owing to the long and continued delay in procuring materials from England the ironwork has not been completed.

Miscellaneous.

10. Expenditure Rs. 119,528·72. The expenditure includes the preparing in the Factory of 800 feet out of the 1,272 feet by 21 feet corrugated iron decking for the Kalutara road bridge over the Kalu-ganga. The work of laying the decking has not yet been put in hand, as it is anticipated that the Ceylon Government Railway will not vacate their portion of the bridge until October.

The reinforced concrete roof over the tunnel warehouse under York street, Fort, was completed and handed over in December, 1911.

The second complete portable prison has been despatched to Mankulam. It has accommodation for 80 prisoners, together with buildings for a hospital, dispensary, apothecaries' quarters, kitchen, stores, bathroom, and latrines.

Under this head is included the cost of twelve 6-ton steam rollers, a boundary wall enclosing the Department's stone quarry in Elie House grounds, erection of a furnace for destroying the refuse of the General Post Office, and a ferry boat for Kayts.

Other Funds.

11. Expenditure Rs. 109,255·14. This is the cost of work executed for practically all the Departments of Government, including that for the Telegraph, Telephone, and Postmaster-General's Department.

There were 3,297 cwt. of castings supplied to the Ceylon Government Railway during the year.

Under this head is included the cost of the ironwork for the new distillery at Kalutara for the Excise Department; also the repair of the fire extinguishing apparatus and machinery of the two harbour tugs; Clayton disinfecting plant; as well as the general repairs to the machinery of four petrol launches and the launches of the Port Surgeon.

The final expenditure in connection with the electrical illumination and decorations on the Coronation of His Majesty King-Emperor George V. is also included.

Works charged to Surplus Balances.

12. Expenditure Rs. 291,930·98. This expenditure includes that of completing the Printing Office at Welikada; extending the quay wall in front of the Fort Customs premises; hydro-electrical installation at Nuwara Eliya; new Royal College; buildings for the new Wireless Telegraph Station; hot water service for the Colombo Hospital Outpatients' Department.

13. *Quay Wall and Extension to Jetties and Warehouses.*—The 100 feet extensions to export jetties Nos. 1 and 2 were completed and were in use in July, 1911.

A length of 192 feet has been added to the concrete quay walling in front of the export Warehouse, and about 1,700 square yards of land have been reclaimed, which latter will eventually be partly covered with the extension to the existing warehouses. It has been necessary to arrange the work in such a manner that the export traffic would not be seriously hampered; this has had the effect of retarding the progress of the work.

14. *Hydro-electric Installation, Nuwara Eliya.*—During the year the remainder of the 18-inch diameter mild steel pipes were laid and caulked, as well as the three span lattice girder bridge carrying the pipes over the stream at Blackpool. The total length of pipe line is 3,690 feet, and, with the exception of where it is carried over the stream at three different places, it is almost entirely entrenched and covered over. The two-storied power house is completed, and has quarters for a station superintendent on its upper floor. The lighting of the streets in Nuwara Eliya was commenced on March 15, and since that date many private consumers have taken advantage of drawing current from the mains.

15. *New Royal College, Colombo.*—The work on the main block is nearing completion. The building comprises ten class rooms, library, art room, Principal and masters' rooms, armoury, stores, and lavatories. The science block, in which are the physics and chemistry laboratories, lecture halls, preparation rooms, balance rooms and stores, &c., is also in a very advanced state of completion. The walls and roof of the manual department as well as the foundations of the Principal's bungalow with outbuildings are completed.

16. *Treasury Extension.*—On opening out the foundations for the new extension it was found that the ground was composed of a soft substratum of made earth, which necessitated their being excavated deeper and the driving of a sufficient number of horsa piles to a depth of 9 feet. Upon the heads of the latter a concrete raft reinforced with two layers of expanded metal has been laid in order to carry the whole mass of brickwork. The brickwork up to the level of the first floor joists was completed early in June, since which time all work has been suspended owing to the non-arrival of the ironwork from England due to labour strikes.

17. *Wireless Telegraph Station.*—I received orders on December 13 to commence the building of the station and quarters for the Wireless Telegraph Staff at Welikada. The station building was completed on February 28, although it had been in use by the workmen and Engineer of the Marconi Wireless Telegraph Company prior to that date. The quarters for the staff are now completed, some delay having been caused owing to non-delivery of gutters, &c., from England.

Works chargeable to Loans.

18. Expenditure Rs. 96,638·50. The expenditure under this head covers the cost of machinery, tools, and equipment required for the Lake Development Scheme, including the cost of two 7-ton Stothert & Pitt's steam dredging cranes complete, each being supplied with two buckets, as well as one complete and one partly finished pontoon 50 feet long and 20 feet wide for carrying the crane.

The materials for a bridge 100 feet by 120 feet over the lake spill have also arrived. Under this head is also included the further expenditure towards completing the second instalment of hand dredgers and mud barges for the Karaiur reclamation, cost of some Railway castings, and minor additions of electric lights and fans.

Branch Road Funds.

19. Expenditure Rs. 3,295·83. This includes the ironwork for the two bridges on the Bandarawela Liyangahawela road and a small one on the Galahenwatta-Yatiyantota road.

Electrical.

20. This branch of the Government Factory represents an expenditure of Rs. 189,141·44, which has been included under the aforementioned headings, and I attach separate report from the Electrical Engineer.

Payment during this year of Rs. 87,677·69 has been made for electric current, transformer, and meter charges on Government premises in Colombo and Kandy.

Machinery.

21. At the close of the year a new Pel's punching and plate sheering machine and a four-head high speed drilling machine have been erected in the bridge shop. These should afford a very useful and economical replacement of the older machines.

General.

22. The work executed and expenditure incurred during the year has been a record one, being in excess of those of former years.

Mr. E. H. Evans resigned and left Government service in November, 1911.

Mr. J. C. Cooper, Assistant Engineer, was attached to the Government Factory in October pending the appointment of an officer who has had a mechanical engineer's training.

Government Factory,
Colombo, August 19, 1912.

G. H. M. HYDE,
Factory Engineer.

REPORT OF THE ELECTRICAL ENGINEER FOR 1911-12.

FROM July, 1911, to June 30, 1912, the total expenditure on new works, extensions, and additions to electrical installations has been Rs. 101,463.75, and for electricity Rs. 87,677.69, making a total of Rs. 189,141.44.

<i>Maintenance.</i>	Rs. c.
Electric lights, fans, motors, and other apparatus ..	22,000 0
Electric cranes, &c. ..	4,176 89

New Works and Additions.

Electric lighting and apparatus, Railway Department ..	22,926 27
Do. Nuwara Eliya ..	17,827 25
Do. Public Works Department ..	15,343 89
Do. Customs ..	3,779 37
Do. Post and Telegraph Department ..	3,151 51
Do. Medical Department ..	2,785 71
Do. Police Department ..	1,450 8
Do. Excise Department ..	864 14
Do. Registrar-General's Department ..	294 48
Do. Land Settlement Department ..	239 76
Do. Survey Department ..	183 37
Do. Volunteer Department ..	163 24
Do. Miscellaneous ..	1,154 81

Telegraph Instruments and Railway Tablet Instruments.

Repairs, alterations, &c., to 1,409 relays (P. O. standard, Siemen's tablet), sounders (local, D. W., and portable and Indian pattern), rheostats, galvanometers (D. C. and S. C. tablet), Key's D. C. and S. C. inkers, translators, blockswitches, lightning dischargers, (carbon and plate pattern) switchboards, test boards, bell and switch barrels, testing sets, separators, condensers, train indicators, signal repeaters, commutators, resonators, detectors, electrodes, &c.	3,306 63
--	-------------

Telephone Instruments.

Repairs, alterations, &c., to 1,546 wall and desk sets, hand combinations, plug and cords, fuses, ring-off indicators, and indicators with jacks combined, extension bells, operator sets, receivers (D. P. watch pattern and phonopore types), head gears, switchboards, &c.	1,816 35
Total ..	101,463 75

From July, 1911, to June 30, 1912, 68 ceiling and desk fans, 383 lamps, 4 arc lamps, 1 4-ton electric crane, 1 transformer, 1 5-B.H.P. motor generator, 2 heating apparatus were installed, making an approximate total for annual maintenance of Government electrical installations in Colombo, Kandy, and Nuwara Eliya :—

766 fans	2 C.C. 7.5 B.H.P. 440 volt motors
4,678 incandescent lamps of 8, 16, 32, 50, and 100 candle power	1 , , 5 , , 440 volt motors
45 arc lamps	1 , , 1 , , 440 volt motors
24 heating apparatus	1 , , 3 , , 220 volt motors
1 20-ampère Nodon valve rectifier	1 , , 2 , , 220 volt motors
2 10-ampère do.	2 , , 1 , , 220 volt motors
1 5-ampère do.	3 small 100 volt A.C. motors
8 electric cranes	4 , do. motor generators
3 electric lifts	1 C.C. 4 K.W. 220 volt generators
7 fire alarms	1 C.C. 6.6 K.W. 100 volt generator
5 transformers	1 motor generator 8.5 B.H.P., A.C. direct coupled to 5 unit C.C. generator
9 C.C. 10.5 B.H.P. 550 volt motors	1 motor generator 5 B.H.P., A.C. direct coupled to 1 unit, 1.2 K.W. and 1, 1.1 K.W. C.C. generators
2 , , 8 , , 550 volt motors	
8 , , 3.5 , , 550 volt motors	

1909. 18 months. 12 months.
 1910-11. 1911-12.

Electric Cranes.

Number of cranes ..	7 ..	7 ..	8
Number of lifts made ..	129,345 ..	221,234 ..	180,677
Number of B. T. U., used ..	3,880 ..	6,302 ..	5,097.1
Cost per B. T. U., cents ..	21 ..	21 ..	21
Energy per lift (B. T. U.) ..	0.02 ..	0.02 ..	0.02
Cost of energy per lift, cents ..	0.6 ..	0.59 ..	0.59

Statement of Electricity, Transformer, and Meter Charges of Government Premises in Colombo and Kandy during 1911-12.

Paid by Public Works Department

			Rs.	c.
4 installations	..	16,468	B. T. U. at 45c.	7,410 60
51 Do.	..	126,788	,, at 40c.	50,715 20
4 Do.	..	67,537	,, at 35c.	23,637 95
7 Do.	..	13,858.1	,, at 21c.	2,910 20
Cost of electricity for 4 Government fans at Wharfage Company's premises	..	—		438 0
Meter rent and transformer charges, &c.		—		2,565 74
Total B. T. U. ..		224,651.1	Total ..	87,677 69

Paid by other Departments

7 installations	..	4,352	B. T. U. at 45c.	1,958 40
7 Do.	..	57,428	,, at 40c.	22,971 20
1 Do.	..	1,200	,, at 21c.	252 0
Meter rent and transformer charges, &c.		—		342 0
Total B. T. U. ..		62,980	Total ..	25,523 60

Hydro-electric Scheme, Nuwara Eliya.—On March 15, 1912, the current was switched on and a supply available to the public; 29 installations have been connected equivalent to 1,607 16-candle power lamps and 1 3-H.P. motor; a number of installations are being fitted up for lighting and 1 8-H.P. motor. There are also inquiries for further demands.

Nanu-oya Lighting.—The track across the jungle has been cleared, and the erection of the transmission line will be proceeded with on the arrival of the poles.

Supply of Electricity to Government Installations, Colombo.—The ten years' agreement for this contract expires on January 1, 1914, and Government has received offers from the Colombo Electric Lighting and Tramway Company, Ltd., for a further period of years. I have prepared and sent in a report, schedule, and plans for a proposed Government Electric Power Station for Colombo, which Government has now under consideration.

Electric Cranes, Railway Goods Yard.—To facilitate the loading and unloading of goods at the Railway goods yard, Maradana, one 5-ton fixed crane and one 8-ton travelling crane have been ordered; the cranes will be of the latest type fitted with lever balanced luffing gear, which will enable them to luff five times faster than cranes fitted with ordinary luffing gear.

F. B. RYLANDS,
Electrical Engineer.

APPENDIX.

No. 1.—Statement of Expenditure (Public Works Annually Recurrent), 1911-12.

Classification.	Province.										Miscellaneous.	Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabaragamuwa.			
Maintenance of roads	371,907 29	370,383 64	148,732 32	226,075 87	171,079 66	277,843 24	161,283 27	257,510 81	208,251 79	—	2,182,067 89	—
Maintenance of inland navigation	27,272 34	—	4,470 25	—	7,298 63	18,377 48	—	—	—	—	57,418 70	—
Maintenance of Government buildings, and works exclusive of police and hospital buildings	31,828 91	14,951 76	9,801 1	12,463 86	9,982 75	10,476 24	7,615 27	5,683 69	4,292 33	—	107,095 82	—
Maintenance of police stations	6,077 44	2,708 5	867 55	2,309 80	632 91	994 45	100 50	342 30	510 57	—	14,543 57	—
Maintenance of hospitals and dispensaries	17,999 9	14,404 13	3,469 81	4,577 31	2,272 27	3,574 8	1,981 61	4,309 44	4,539 13	—	57,126 87	—
Maintenance of King's houses, Colombo, Kandy, Nuwara Eliya, and Jaffna	869 64	4,031 27	620 37	—	—	—	—	—	—	—	—	—
Maintenance of camp buildings, Diyatatalawa	—	—	—	—	—	—	—	—	—	—	5,521 28	—
Maintenance of electric light and fan installations, Colombo, Kandy, and Nuwara Eliya	—	—	—	—	—	—	—	—	—	—	3,793 13	—
Maintenance of Mahara jail	4,660 11	—	—	—	—	—	—	—	—	—	—	—
Maintenance of temporary hospitals in cases of epidemics	—	—	1,178 62	4,482 15	1,582 3	—	—	—	—	—	21,915 30	—
Maintenance of Customs, wharf, jetties, and cranes	19,499 21	139 0	125 26	—	—	—	—	—	—	—	—	—
Maintenance of plague sheds	—	—	—	—	—	—	—	—	—	—	—	—
Maintenance of disinfecting station, Breakwater	—	185 91	—	—	—	—	—	—	—	—	—	—
Maintenance of Trinity House	—	—	—	—	196 21	—	—	—	—	—	—	—
Maintenance of southern plague hospital, Galle	—	—	—	—	599 79	—	—	—	—	—	—	—
Maintenance of Bathfield house, Galle	—	—	—	—	233 50	—	—	—	—	—	—	—
Maintenance of Disinfecting Station and Segregation camp, Kayts	—	—	124 54	—	—	—	—	—	—	—	—	—
Special repairs to buildings	10,968 57	—	—	—	—	—	1,969 75	—	—	—	—	—
Additions and improvements to Government buildings and works	6,841 53	9,440 89	288 19	4,315 28	3,296 37	2,706 87	605 13	63 0	6,943 23	—	124 54	—
Additions and improvements to police buildings	1,359 7	1,613 72	307 85	900 28	188 13	666 29	—	—	—	—	22,563 4	—
Additions and improvements to prison buildings	2,250 78	387 4	642 88	81 76	35 30	—	—	—	—	—	—	—
Additions and improvements to hospitals and dispensaries	3,884 54	5,561 88	2,011 10	1,793 98	1,128 47	438 96	648 57	2,217 14	532 13	—	32,131 74	—
Additions and improvements to postal buildings	2,462 89	858 27	42 50	17 0	112 0	577 49	—	681 25	27 60	—	5,728 37	—
Maintenance of iron and timber bridges throughout the Island exceeding 50 feet in length	9,032 63	9,547 66	2,259 93	14,500 44	9,592 62	17,928 10	3,437 10	3,157 58	13,842 31	—	3,617 21	—
Annual painting the Kelani bridge...	1,890 7	—	—	—	—	—	—	—	—	—	18,216 77	—
Urgent repairs to bridges	2,070 46	1,043 46	1,564 92	—	—	—	—	—	—	—	4,779 0	—
Miscellaneous	160,960 95	23,480 89	4,100 99	18,914 65	2,729 79	183 8	557 11	17,295 59	5,369 4	—	83,298 37	—
Total	682,160 43	458,437 92	180,482 83	290,461 88	209,931 13	335,736 3	166,291 56	301,317 47	246,249 94	283,885 82	3,154,955 1	—

No. 1 A.—Statement of Expenditure (Public Works Annually Recurrent), 1911-12.

Classification.	Province.										Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabara-gamuwa.		
Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
<i>Private Contribution spent on Brench Roads.</i>											
Maintenace of roads	—	—	—	—	—	—	—	—	—
Miscellaneous
Total	...	—	43,386 76	—	3,653 48	—	380 31	—	2,912 61	5,307 64	55,640 80
			667 17	—	—	—	—	—	78 0	—	745 17
			44,053 93	—	3,653 48	—	380 31	—	2,990 61	5,307 64	56,385 97

No. 2.—Statement of Expenditure (Public Works Extraordinary), 1911-12.

Classification.	Province.												Total.								
	Western.			Central.		Northern.		Southern.		Eastern.		North-Western.		North-Central.		Uva.		Sabaragamuwa.			
	Rs.	c.	Rs.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.		
New works and buildings	68,404	29	25,491	56	24,474	38	20,863	30	8,238	0	33,209	25	17,154	68	14,701	53	15,788	59	228,325	58	
Additions and improvements to buildings	175,035	82	56,329	99	22,611	64	27,699	68	9,736	89	43,090	53	6,970	71	22,139	6	5,026	35	367,639	67	
New roads	75,984	98	34,677	91	34,513	20	—	—	15,981	5	—	—	115,660	91	67,331	82	—	—	268,165	89	
Additions and improvements to roads	13,628	28	4,289	53	6,450	83	39,896	2	64,732	81	95,769	45	13,092	71	21,303	70	4,115	75	347,320	87	
New bridges	8,864	22	19,789	84	4,498	34	16,875	68	5,996	10	21,566	5	2,649	66	1,021	64	13,354	99	—	—	
Repair of bridges	206,728	50	62,176	0	—	—	—	—	11,390	24	—	—	2,980	43	123,169	69	—	—	209,134	49	
Lands and buildings to be acquired	134,455	16	20,718	37	27,095	80	15,802	5	350	9	4,000	0	9,000	0	—	—	6,420	29	—	—	
Miscellaneous	245,446	11
Total	683,101	25	248,447	82	125,715	16	127,132	83	104,623	84	208,606	18	47,269	93	223,198	78	221,851	49	—	1,994,947	28

No. 2 A.—Statement of Expenditure (Public Works Extraordinary), 1911-12.

No. 3.—Statement of Expenditure, 1911-12.

No. 3.—Statement of Expenditure, 1911-12—contd.

Classification.	Provinces.										Miscellaneous.			Total.	
	Western.	Central.	Northern.		Southern.		Eastern.		North-Western.		North-Central.		Uva.	Sabaragamuwa.	
<i>Works chargeable to Surplus Balances, Loans, &c.—contd.</i>			Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.
Bottomming and metaling all approaches, cart roads, &c.	—	—	—	—	—	—	—	—	—	—	—	—	4,916	25	—
Damage to the Avisawella-Ratnapura road 49th mile post	—	—	—	—	—	—	—	—	—	—	—	—	499	1	—
Goods sheds, and cart road, Ratnapura, and repairing road to Railway Station, Avisawella	—	—	—	—	—	—	—	—	—	—	—	—	256	60	—
Removing the old beacon at Mullaithivu and repairs to Foul Point Light house	—	—	—	—	—	—	—	—	—	—	—	—	—	—	230
Head 17, Immigration and Quarantine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37
Head 32, Veterinary Department	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49
Head 19, Postal Department: removing, fixing, letter boxes, walling in safes, &c.	33	25	90	50	—	—	10	80	44	0	70	75	22	50	89
Head 15, Survey Department: pickets for survey of roads, &c.	70	33	830	36	42	16	—	—	—	—	—	—	—	—	35
Head 2, Military Expenditure	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0
Alterations to the shelves in the Judges' Law Library, &c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35
Repairs to Infectious Diseases Hospital, Kannatta	698	86	—	—	—	—	—	—	—	—	—	—	—	—	0
Drainage of bazaar 123rd mile Tangalla-Hambantota road	432	64	—	—	—	—	—	—	—	—	—	—	—	—	—
Drains, Tangalla-Hambantota road	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Building a latrine at the Naval Sick Quarters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Certain repairs to Admiralty House, Trincomalee	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dredging of the Taldhuwa Canal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Erecting a lean-to shelter, Opium buyers, Negombo hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refund of excess paid by contractor Yates	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unloading stores from boat at Ratnapura	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Temporary ward, General Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Improvements to Pettah Opium Depôt	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alterations to Government Analyst's Laboratory	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Counters for sale of opium at Henamulla	430	50	—	—	—	—	—	—	—	—	—	—	—	—	—
Repairs to Dispensary and Apothecary's quarters, Trincomalee and Sammanturai	266	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Improvements to Government Analyst's Laboratory	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removing opium depôts at Urugodawatta and Maradana and establishing one at Panchikawatta	162	50	—	—	—	—	—	—	—	—	—	—	—	—	—
Repairs to pump, &c., Master Attendant, Colombo	480	69	—	—	—	—	—	—	—	—	—	—	—	—	—
Laboratory	604	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Furniture for Survey Office	328	72	—	—	—	—	—	—	—	—	—	—	—	—	—

PUBLIC WORKS.]

PUBLIC WORKS.

No. 4.—Return of Roads.

Name of Road.	Length in Miles.			Cost of Maintenance during 1911-12.			Width of Track in Feet.			Average Cost per Mile.			Traffic Average Number of Carts per Diem over portions.		
	Metalled.	Gravelled.	Natural.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Metalled.	Gravelled.	Natural.
WESTERN PROVINCE.															
COLOMBO DISTRICT.															
Approach roads to public buildings in the Fort, Colombo	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Approach roads to public buildings outside the Fort, Colombo	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Approach roads to railway stations, Wellawatta, Dehiwala, and Mount Lavinia	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Approach roads to Kelaniya railway station	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Kotte road toll bar to junction of Galle road near Wellawatta	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Chatham street extension	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Dematagoda to Wellampitiya	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Grandpass to 34th mile, Kandy road	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Grandpass to Avisawella	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Hanwella to Nambapana	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Kelaniya to Biyagama	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Municipal toll bar at Bambalapitiya to Kotte road junction	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Urugodawatta road	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Veyangoda-Ruwanwella road to Western Province boundary	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Wellawatta to 7th mile, Galle road	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Wakoya bridge to Laibugama	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Pasyala to Attanagalla	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Padukka-Bopé road	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Mipe-Padukka-Millewa road	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Approach roads to railway stations, Kelani Valley Line up to Avissawella	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Approach roads to Veyangoda railway station...	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Koggama-Pugoda road	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Roads within the Customs premises	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Roads to grain sheds, Kochchikade	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Approach roads to passenger jetty	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
KALUTARA DISTRICT.															
Horana to Alutgama	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
Approach roads to railway stations, Angulana to Alutgama	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
7th mile, Galle road to Bentota	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••

Moratuwa to junction of Keshewa road	3	1,599 86	—	533 28	—	—	—	—	—	—	—	—
Katukurunda to Neboda	10-36	6,993 31	—	675 3	—	—	—	—	—	—	—	—
Pandure to Nambapana	22-77	24,003 80	—	1,054 18	—	—	—	—	—	—	—	—
Road to Beruwala Customs	66	499 53	—	756 86	—	—	—	—	—	—	—	—
Road leading to District hospital, Neboda	1-75	—	987 78	—	564 44	—	—	—	—	—	—	—
Horawela to Moragalla resthouse	5	3,299 72	—	639 94	—	—	—	—	—	—	—	—
Approach roads to public buildings	1-28	347 25	—	271 29	—	—	—	—	—	—	—	—
Nagoda-Kallawella road	4-50	15,063 41	—	15,063 41	—	—	—	—	—	—	—	—
Tebuwana-Anguruwatota road	45	2,085 41	—	2,085 41	—	—	—	—	—	—	—	—
Approach road to goods shed, Alutgama	21-62	382 70	—	382 70	—	—	—	—	—	—	—	—
Approach road to railway goods shed, Panadura	45	193 75	—	193 75	—	—	—	—	—	—	—	—
Approach road to railway goods shed, Beruwala	29	55 0	—	55 0	—	—	—	—	—	—	—	—
Moragala-Polwatta road	05	—	—	—	—	—	—	—	—	—	—	—
NEGOMBO DISTRICT.												
Approach roads, Henaragoda railway station	12	—	—	80 10	—	—	—	—	—	—	—	—
Approach roads to Mahara prison	40	294 92	—	294 92	—	—	—	—	—	—	—	—
Grandpass to Toppu	24-30	39,990 19	—	39,990 19	—	—	—	—	—	—	—	—
Giriulla to Pasyaya	12	10,983 94	—	10,983 94	—	—	—	—	—	—	—	—
Ja-ela to Kotadeniyyawa	18-50	13,787 12	—	13,787 12	—	—	—	—	—	—	—	—
Minuwangoda to Henaragoda	8-11	5,789 42	—	5,789 42	—	—	—	—	—	—	—	—
Maha Hununitiya to Mugurungampola	19	11,896 96	—	11,896 96	—	—	—	—	—	—	—	—
Negombo to Giriulla	28-50	24,975 40	—	24,975 40	—	—	—	—	—	—	—	—
Veyangoda to Negombo	15-25	9,278 9	—	9,278 9	—	—	—	—	—	—	—	—
Wellisara to Ragama	5	2,897 64	—	2,897 64	—	—	—	—	—	—	—	—
Approach roads to public buildings	20	98 16	—	98 16	—	—	—	—	—	—	—	—
Ragama station road	98	639 44	—	639 44	—	—	—	—	—	—	—	—
Approach road to Kandana railway station	37	249 32	—	249 32	—	—	—	—	—	—	—	—
Approach road to Sidhawa railway station	37	244 44	—	244 44	—	—	—	—	—	—	—	—
Approach road to Kurana-Katunayaka station	25	168 50	—	168 50	—	—	—	—	—	—	—	—
Dunagaha-Nilpanagoda road	56	297 75	—	297 75	—	—	—	—	—	—	—	—
Approach road to passenger station, Negombo extension	11	164 50	—	164 50	—	—	—	—	—	—	—	—
Total	22-09	388-31	—	410-40	—	7,523 52	357,887 6	—	365,410 58	—	—	—
CENTRAL PROVINCE.												
KANDY DISTRICT.												
Approach roads to public buildings	11	2-75	—	819 55	107 35	—	—	—	—	—	—	—
Approach roads to railway stations	1-10	1-10	—	1,744 86	—	1,744 86	—	—	16 19	—	—	—
Ampitiya road	4-75	4-75	—	2,360 73	—	2,360 73	—	—	8-32	—	—	—
Haragama to Kurundu-oya	28-25	28-25	—	14,513 34	—	14,513 34	—	—	9	—	—	—
Kandy to Haragama	8-50	8-50	—	7,275 42	—	7,275 42	—	—	10-12	—	—	—
Katugastota to Queen's Hotel	2-57	2-57	—	4,535 71	—	4,535 71	—	—	10	—	—	—
Lower Badulla road, Kandy section	23-50	23-50	1,178 92	—	—	—	—	—	16-27	—	—	—
Peradeniya to Lewella ferry	—	5-81	—	6,755 47	—	6,755 47	—	—	50 16	—	—	—
Deltota road	19	19	—	14,929 22	—	14,929 22	—	—	9-11	—	—	—
Gefambé Ferry road	1-75	1-75	—	465 4	—	465 4	—	—	8	—	—	—
Maturata-Padiyapelella road	4-91	4-91	—	417 30	—	417 30	—	—	238 45	—	—	—
Rahatungoda to Rikilagasoda	3	8-25	—	2,346 10	—	2,346 10	—	—	12	—	—	—
Rahatungoda-Deltota road	5-25	3-09	—	1,972 17	—	1,972 17	—	—	9	—	—	—
Dumbara Valley approach road	—	3-09	—	2,961 87	—	2,961 87	—	—	8	—	—	—

No. 4.—Return of Roads—*continued.*

No. 4.—Return of Roads—*continued.*

Name of Road.	Length in Miles.	Cost of Maintenance during 1911-12.						Width of Track in Feet.	Average Cost per Mile.	Traffic Average Number of Carts per Diem over portions.								
		Metalled.	Gravelled.	Natural.	Total.	Metalled.	Gravelled.	Natural.	Total.	Metalled.	Gravelled.	Natural.	Total.	Metalled.	Gravelled.	Natural.		
CENTRAL PROVINCE—<i>contd.</i>																		
DIMBULA DISTRICT—<i>contd.</i>																		
Lindula to Nuwara Eliya (Lindula to Nanu-oya)	—	—	11	—	11	—	—	—	—	5,044	55	—	—	185	—	—		
Tispene road	...	—	2.72	—	2.72	—	—	—	—	999	3	—	—	35	—	—		
Approach roads to public buildings	...	—	23	—	23	—	58	0	—	58	0	—	—	4	—	—		
Approach roads to railway stations	...	—	44	—	44	—	—	199	75	—	199	75	—	—	50	—	—	
Horton Plains-Agras bridle path	...	—	8.10	—	8.10	—	432	75	—	432	75	6	—	—	—	—	—	
Approach roads to goods shed, Nawalapitiya	—	23	—	23	—	—	239	50	—	239	50	—	—	75	—	—	
<i>Branch Roads.</i>																		
Lindula to end of Agra road	—	14	—	14	—	—	—	—	19,993	66	—	—	—	—	—	—	
Railway Gorge road	—	3	—	3	—	—	1,299	45	—	1,299	45	—	—	1428	12	—	
Walaqa road	—	1.91	—	1.91	—	—	677	17	—	677	17	—	—	433	15	—	
Glenlyon-Preston road	—	2.55	—	2.55	—	—	1,198	52	—	1,198	52	—	—	354	54	—	
<i>DIKOYA DISTRICT.</i>																		
Approach roads to public buildings	—	90	—	43	—	1.33	—	168	75	129	50	—	298	25	8	8	
Approach roads to railway stations	...	—	—	—	44	—	—	—	—	185	35	—	185	95	—	12	—	
Carolina road	...	—	—	—	1.20	—	1.20	—	—	688	61	—	688	61	—	12	—	
Dikoya road, Nawalapitiya to Hatton bridge junction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dimbula-Dikoya Junction road	—	—	—	1.50	—	1.50	—	21.70	—	21.70	—	—	10,974	35	—	11	
Gimigathena to boundary of Province	...	—	—	—	7.67	—	7.67	—	—	—	—	2,006	90	—	2,006	90	—	
Strathdon-Fruit Hill road	—	—	—	1.70	—	1.70	—	—	—	—	3,501	67	—	3,501	67	—	
Dikoya road, Hatton bridge junction to Norwood bridge	—	—	—	4.98	—	4.98	—	—	—	—	676	0	—	676	0	—	
Glenugie-Upcot road	—	—	—	2	—	2	—	—	—	—	10,304	59	—	10,304	59	—	
<i>Branch Roads.</i>																		
Bathford Valley road	—	—	—	6.60	—	6.60	—	—	—	—	2,785	87	—	2,785	87	—	
Dikoya road, Norwood bridge to Campion	...	—	10.05	—	10.05	—	—	—	—	7,547	42	—	7,547	42	—	11	—	
Maskeliya road, Norwood bridge to Moray	...	—	9.73	—	9.73	—	—	—	—	9,796	19	—	9,796	19	—	10	—	
Maskeliya road, Maskeliya to Grunden	...	—	3.60	—	3.60	—	—	—	—	1,780	89	—	1,780	89	—	10	—	
Maskeliya road, Brownlow to Luecombe	...	—	3.87	—	3.87	—	—	—	—	1,522	50	—	1,522	50	—	9	—	
Norton-Carolina road	—	5.25	—	5.25	—	—	—	—	2,991	83	—	2,991	83	—	10	—	
Norwood-Upcot road	—	7.90	—	7.90	—	—	—	—	4,972	95	—	4,972	95	—	10	—	
Wanarajah road	—	4.50	—	4.50	—	—	—	—	1,894	53	—	1,894	53	—	10	—	
Amfield road	—	3.50	—	3.50	—	—	—	—	1,385	35	—	1,385	35	—	10	—	
Total ...	56.38	64.24	597.38	—	718	3,327	88	16,967	42	393,497	78	—	413,793	8	—	59	3,264	14
																	658	76

No. 4.—Return of Roads—*continued.*

Name of Road.	Length in Miles.			Cost of Maintenance during 1911-12.			Width of Track in Feet.			Average Cost per Mile.			Traffic Average Number of Chars per Diem over portions.		
	Metalled.	Gravelled.	Natural.	Metalled.	Gravelled.	Natural.	Total.	Metalled.	Gravelled.	Natural.	Total.	Metalled.	Gravelled.	Natural.	
SOUTHERN PROVINCE.															
GALLE DISTRICT.															
Bentota to Goiyapana	43.25	—	43.25	—	—	—	28,514	93	—	10	—	—	—	390	
Dodanduwa to Baddegama	6.50	—	6.50	—	—	—	3,486	20	—	9	—	—	—	295	
Galle to Udugama	22.75	—	22.75	—	—	—	12,978	61	—	9	—	—	—	75	
Galle to Akurella	21	—	21	—	—	—	13,699	26	—	9	—	—	—	140	
Hikkaduwa to Gonapinuwela...	2.70	—	2.70	—	—	—	1,799	14	—	9	—	—	—	85	
Kahawa to Batapola	5.25	—	5.25	—	—	—	640	70	—	8	—	—	—	60	
Beds within the Municipality of Galle	4.75	—	4.75	—	—	—	6,298	95	—	10	—	—	—	425	
Railway approach roads	6.63	—	6.63	—	—	—	398	34	—	9	—	—	—	230	
Approach roads to public buildings	1.93	—	1.93	—	—	—	1,254	74	—	9	—	—	—	3	
Approach roads to goods shed, Ambalangoda...	—	—	—	—	—	—	319	0	—	—	—	—	—	75	
MATARA DISTRICT.															
Akurella to Wiharahena	33	—	33	—	—	—	28,786	86	—	10	—	—	—	20	
Dikwella to Beliatta	8	—	8	—	—	—	4,196	30	—	8	—	—	—	35	
Goiyapana to Tangalla	36	—	36	—	—	—	25,996	42	—	10	—	—	—	100	
Hakmana to Tangalla	12	—	12	—	—	—	6,495	46	—	7	—	—	—	25	
Matara to Hakmana	15	—	15	—	—	—	7,996	72	—	7	—	—	—	75	
Matara new entrance road	1.25	—	1.25	—	—	—	997	96	—	12	—	—	—	400	
Railway approach roads	.87	—	.87	—	—	—	298	70	—	11	—	—	—	160	
Matara-Akurella road	12.66	—	12.66	—	—	—	6,874	26	—	10	—	—	—	50	
Approach roads to public buildings	.51	—	.51	—	—	—	108	25	—	6	—	—	—	10	
BANCH ROAD.															
Deniyaya to Hayes	—	—	—	10.50	—	10.50	—	—	7,238	14	—	6	—	—	
HAMBANTOTA DISTRICT.									7,238	14	—	—	—	30	
Approach roads to public buildings	15	—	28.50	—	15	—	38	0	—	10	—	—	—	10	
Hambantota to Tanamalwila...	—	—	2	—	28.50	—	23,672	99	—	10	—	—	—	85	
Lewaya road...	—	—	26	—	2	—	2,299	94	—	10	—	—	—	85	
Tangalla to Hambantota road (139th mile) to	11	—	11	—	26	—	31,334	22	—	10	—	—	—	70	
Liyangahatota...	—	—	1.50	—	4	—	11.5	—	—	2,321	99	—	—	15	
Wellgratta to Bundala	—	—	5.25	—	6	—	5.50	—	—	283	75	—	—	16	
Wirawila to Kirinda via Tissamaharama...	—	—	—	—	—	11.25	—	—	1,328	75	—	—	—	30	
Total	—	—	24.22	—	298.93	—	323.15	—	—	6,774	95	221,735	92	60	
									—	—	—	228,510	87	—	
									—	—	—	279	72	741	
									—	—	—	76	—	—	

EASTERN PROVINCE.

SATTICALOA DISTRICT.

Coast road, North, Batticaloa District	...
Kalkuda road	...
Maduru-oya to Eravur	...
Punkudaveli road	...
Kodd from the resthouse to the bar, Batticaloa	...
Kalkuda-Valaichchenai road	...
Approach roads to public buildings	...

KALMINAI DISTRICT.

Akkaraipattu-Segannam road...	
Arasadi to Malkompuddi	...
Akkaraipattu-Trakkamam road	...
Coast road, South	...
Karaipattu to Sammantai and Irakkam	
Kalmunai-Chadiyantala wa road	...
Polttini-Muppane road	...
Kalmunai-Sea View road	...
Approach roads to public buildings	...

WINCOMALEE DISTRICT.

Coast road, Trincomalee District
 Graves road, Trincomalee ...
 Road from salt stores, Nilaveli, to the hills ...
 Trincomalee to Kituluttu ...
 Trincomalee towards Anuradhapura ...
 Coast road to Toppur ...
 Approach roads to public buildings ...
 Road to the new salt stores, Nilaveli ...
 Road from Foul Point to Shell Bay ...
 Approach road to North Salt Store ...

Total
PROVINCE.

NORTH-WESTERN PROVINCE.

KURUNEGALA DISTRICT.	
Approach roads to public buildings	...
Geinwana Circular road	...
Kurunegala to Nikarawatya	...
Kurunegala to Beligamuwa	...
Kurunegala to Galagedara	...
Padeniya to Siyambalagama	...
Polgahawela to Kurunegala	...
Railway approach roads and	Edinburgh
Kurunegala	...
Nikarawatya-Maho Polpitiya road	...
Vilakatupota-Ganewatta road	...
Bazaar street, Kurunegala	...
Galgamuwa-Nikawewa road	...
Maho-Nikawewa road	...

No. 4.—Return of Roads—*continued.*

Name of Road.	Length in Miles.	Cost of Maintenance during 1911-12.						Width of Track in Feet.	Average Cost per Mile.	Traffic Average Number of Carts per Diem over portions.
		Metalled.	Gravelled.	Natural.	Total.	Metalled.	Gravelled.			
NORTH-WESTERN PROVINCE—<i>contd.</i>										
Branch Road.										
Kurnegala-Polgahawela road to Lowlands estate	1.17	—	1.17	—	25	83	—	9,325	67	2,468 29
PUTTALAM DISTRICT.										
Akkaraipattu road	20	5	—	189	45	—	189	45	—	11,793 96
Main road to Kriankali bridge	—	—	29	—	—	—	—	19,399	45	—
Nikaweratiya to Puttalam	—	—	23.50	—	—	10,199	77	—	10,199	77
Puttalam to Kala-oya	—	—	20.50	—	—	20,390	79	—	20,390	79
Puttalam to Madhurugama	—	—	41	—	0	2,502	5	—	2,792	5
Service road to Palavi	—	—	4.50	—	—	899	50	—	899	50
Road to salt stores and town roads, Puttalam...	—	—	12.40	—	—	6,481	92	—	6,481	92
Approach roads to public buildings	—	—	47	—	—	299	17	—	299	17
CHILAW DISTRICT.										
Bo-tree road	—	—	—	—	—	—	—	113	29	113 29
Chilaw-Wariyapola road	—	—	32	—	—	—	—	16,993	75	16,993 75
Madampe to Dummalasuriya...	—	—	6	—	—	—	—	4,798	18	4,798 18
Natandiya to Marawila	—	—	3	—	—	1,729	18	—	1,729	18
Pilakatunulla road	—	—	2	—	—	—	—	—	312	68
Toppu to Battulu-oya	—	—	35	—	—	39,994	73	—	39,994	73
Toppu to Dankotunwa	—	—	2.25	—	—	671	3	—	671	3
Approach roads to public buildings	—	—	1.12	—	—	390	50	—	390	50
Madampe Chetty street	—	—	1.19	—	—	73	50	—	73	50
Kammata-Dankotunwa road	—	—	—	—	—	—	—	593	88	593 88
DANDUGAMA DISTRICT.										
Dankotunwa-Girilluwa road	—	—	18	—	—	—	—	11,999	52	11,999 52
Kurnegala to Girilluwa	—	—	22	—	22	—	—	16,999	82	16,999 82
Kompaspara road	—	2	—	2	—	348	65	—	348	65
Maharagama to Polgahawela...	—	—	14.25	—	—	—	—	7,497	6	7,497 6
Naranmulla to Dummalasuriya	—	—	22.25	—	—	14,846	83	—	14,846	83
Kuliyapitiya to Hettipola	—	—	10	—	—	3,980	13	—	3,980	13
Alawwa-Dampellassa road	—	—	2.50	—	—	548	75	—	548	75
Total	29	89.187	321.103	40.50	479.79	290	0	30,670	86	227,811 48
								19,499	10	19,499 10
								278,271	44	278,271 44
								—	—	—
								10	0 343	89 709 46 481 45

NORTH-CENTRAL PROVINCE.

ANURADHAPURA DISTRICT.	
Anuradhapura to Siyambalagama	19
Approach roads to public buildings	1.89
Kala-oya to Galagodahena	1
Mirisgoni-oya to Galkandamadu (Galkulam to Rambewa)	1.89
Talawa to Kekirawa (Talawa to 10th mile)	17.67
Road to railway station, Anuradhapura	13.25
Approach road to passenger station, Anuradhapura	2.25
Approach road to Talawa station	2.25
Approach road to goods shed, Anuradhapura	1.14
Approach roads to public buildings	0.4
MIHINTALE DISTRICT.	
Galkulam through Mihintale to Rambewa	10.87
Horawapotana towards Vavumya	22.60
Kala-oya to Galgodahena	3.80
Madawachchiya to Yakarawewa	3.32
Mirisgoni-oya to Galkandamadu	1.7
Road to passenger station, Madawachchiya	0.08
Approach roads to public buildings	3.7
MADADANTADAWALA DISTRICT.	
Habarana-Topawewa road	14
Mirisgoni-oya to Kituluttu	37.72
Mirisgoni-oya to Galkandamadu (Mirisgoni-oya to Galkulam)	29.50
Kekirawa to Galawewa	17.20
Maradankadawela to Hobarana	15.60
Kekirawa to Talawa (0 to 10th mile)	10
Sigiriya road	5.25
Kekirawa-Ganamalpola road	4.25
Total	90.78

PROVINCE OF UVA.	
BADULLA DISTRICT.	
Badulla to Taldena	10.50
Badulla to Bandarawela	19.25
Dikwella to Madulla	5.25
Dikwella to Hakgala	20.25
Kumbalwela to Passara	11
Lower Badulla road	15.50
Naula-Spring Valley road	7.60
Uma-oya-Uda Passellawa road	9.50
Approach roads to public buildings	2.17
Total	137.80

PUBLIC WORKS.	
10,134.44	10,134.44
380.25	380.25
461.33	11,994.58
4,973.16	4,973.10
9,119.98	9,119.98
1,783.40	1,783.40
260.99	260.99
58.50	58.50
62.90	62.90
2,658.85	2,658.85
3,241.67	3,241.67
1,391.91	1,391.91
7,214.95	7,214.95
41.95	41.95
51.0	51.0
3,565.0	3,565.0
19,956.25	19,956.25
16,873.44	16,873.44
3,907.13	3,907.13
3,713.46	3,713.46
4,156.78	4,156.78
2,886.7	2,886.7
1,739.25	1,739.25
20,648.52	20,648.52
70,899.28	59,739.90
151,287.70	151,287.70
9,339.71	9,339.71
43,999.90	43,999.90
3,823.57	3,823.57
9,122.46	9,122.46
9,369.50	9,369.50
5,499.6	5,499.6
624.0	624.0
10.50	10.50
19.25	19.25
450.0	450.0
11	11
15.50	15.50
7.60	7.60
9.50	9.50
2.17	2.17
32	32
30	30
50	50
28	28
28	28
160	160
160	160
10	10
35	35
5	5
3	3
25	25
6	6
10	10
10	10
13	13
15	15
10	10
9	9
9	9
8	8
4	4
375.83	375.83
529.6	529.6
571.97	571.97
227.15	227.15
238.4	238.4
415.67	415.67
549.72	549.72
407.23	407.23
227.45	227.45
514.50	514.50
619.38	619.38
—	—
889.49	889.49
2295.70	2295.70
728.29	728.29
450.49	450.49
851.77	851.77
723.56	723.56
57.85	57.85
287.55	287.55

No. 4.—Return of Roads—*continued.*

Name of Road.	Length in Miles.	Cost of Maintenance during 1911-12.						Width of Track in Feet.						Average* Cost per Mile.						Traffic Number of Carts per Diem over portions.	
		Natural.			Gravelled.			Metalled.			Natural.			Gravelled.			Metalled.				
PROVINCE OF UVA—<i>contd.</i>																					
Diyatalawa District.																					
Bandarawela to Liyangahawela	...	—	8	—	—	—	—	5,499	78	—	—	10	—	—	—	—	—	—	15	—	
Bandarawela to Wellmada	...	—	6	—	—	6	—	3,999	98	—	—	1	—	—	—	—	—	—	1	—	
Bandarawela to Haputale	...	—	6.50	—	—	6.50	—	3,999	95	—	—	10	—	—	—	—	—	—	10	—	
Balway station roads	...	—	18	—	—	18	—	175	25	—	—	5	—	—	—	—	—	—	5	—	
Bochampton to Diyatalawa	...	—	1.80	2	—	3.80	—	1,581	95	3,163	91	—	—	—	—	—	—	—	10	—	
Haputale and Namu-oya bridle road to Pattipola	15.50	—	—	—	—	15.50	0	—	—	1,306	75	6	—	—	—	—	—	—	7	—	
Ohiya to junction of Horton Plains road	...	—	2.25	—	—	4.25	503	0	—	—	349	45	—	—	—	—	—	—	36	—	
Approach roads to goods shed, Haputale	...	—	1.15	—	—	1.15	—	—	—	—	—	—	10	—	—	—	—	—	—	—	
Haldummulla-Horton Plains road	...	—	52	—	—	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Approach road to Diyatalawa railway station	...	—	12	—	—	12	1,959	56	—	—	—	—	—	—	—	—	—	—	—	—	
Road to night soil pits, Diyatalawa	...	—	13	—	—	13	—	—	—	—	339	5	—	—	—	—	—	—	18	—	
Haputale-Dambatenna road	—	70	—	—	70	—	—	—	250	0	—	—	—	—	—	—	—	2	—	
<i>Branch Road.</i>	...	—	—	—	5.75	—	5.75	—	—	—	4,455	99	—	—	—	—	—	—	—	14	—
PASSARA DISTRICT.																					
Badulla to boundary of Eastern Province	...	—	49.50	—	49.50	—	—	53,248	75	—	53,248	75	—	10	—	—	—	—	100	—	
Bibile to Medagama and Muppane	...	—	2	—	23.50	25.50	—	592	14	—	6,952	94	—	—	—	—	—	—	10	—	
Bibile to Alutuwara	...	—	6	—	5	11	—	1,650	9	—	1,439	5	3,089	14	12	—	—	—	6	—	
Kumbalwela-Passara road	...	—	—	—	8.25	—	8.25	—	—	—	6,958	39	—	—	7	—	—	—	20	—	
Passara to Dunedin factory	...	—	—	—	18.75	—	18.75	—	—	15,729	16	—	—	10	—	—	—	—	20	—	
Passara-Nakkala road	...	—	17	—	—	17	2,245	53	—	—	2,245	53	6	—	—	—	—	—	—	—	
Approach roads to public buildings	...	—	6.1	0.05	—	—	6.6	54	0	17	50	—	—	71	50	—	8	—	—	—	
Haputale to Halpe	...	—	—	—	12.75	—	12.75	—	—	—	11,390	75	—	—	—	—	—	—	—	25	—
Batagoda deviation	...	—	—	—	7.75	—	7.75	—	—	—	244	85	—	—	—	—	—	—	4	—	
Haldummulla to Wellawaya	...	—	—	—	22.50	—	22.50	—	—	—	17,825	10	—	—	—	—	—	—	35	—	
Wellawaya to Tanamalwila	...	—	—	—	21.50	—	21.50	—	—	—	13,280	13	—	—	—	—	—	—	35	—	
Wellawaya to Monaragala and towards Pottuvil	14.40	—	10.25	22.50	—	47.15	4,602	24	3,275	90	7,191	31	—	15,069	45	16	—	—	40	—	
Muppane bazaar road	...	—	—	—	28	—	28	—	—	28	268	67	—	—	268	67	—	8	—	15	—
Approach roads to public buildings	...	—	—	—	42	—	42	—	—	42	209	50	—	—	209	50	—	—	—	—	—
Koslanda bazaar to Poonagala factory	...	—	—	—	2.75	—	2.75	—	—	—	1,312	13	—	—	—	—	—	—	47	14	—
<i>Branch Road.</i>	...	—	—	—	2.75	—	2.75	—	—	—	1,312	13	—	—	—	—	—	—	—	6	—
Total	...	97.26	24.37	263.88	28.50	414.01	11,882	68	8,650	0	231,449	63	8,391	99	260,414	30	—	—	—	122,173.56	58
																				877,10,294,45	

PROVINCE OF SABARAGAMUWA.

RATNAPURA DISTRICT.

Bulutota-Eraporuwa road	...	6
Morawaka-Palkwana bridle road	...	11
Melampaya towards Hambantota	...	26.50
Pelmadulla to Gilgarron	...	29.75
Ratnapura to Hape	...	45
Riverside road, Ratnapura	...	1
Roads to Government premises, Ratnapura	...	2.75
Rakwana-Bulintota road70
Ellearawa-Pinnawala road	...	5
Kukul Korale road	...	2
Approach road to Ratnapura station30

Branch Roads.

Ratnapura-Malwela ferry road	...	5
Balangoda-Chetnole road	...	3

AVISAWELLA DISTRICT.

Avisawella-Ratnapura road	...	26
Nambapana road	...	19.75
Avisawella towards Ginigathenna	...	26.50
Ferry approaches at Ruwanwella, Karawanella, and Sitawaka75
Yatiyanota-Ardross road	...	6.18
Approach roads to public buildings91
Approach roads to railway stations, Yatiyanota, Karawanella, and Dehiowita	...	1.50
Ruwanwella to boundary of Province	...	9
Karawanella to Glenalla (39 to 46th mile)	...	7.75

Branch Roads.

Dehiowita to Algoda ferry	...	1.50
Parakaduwa bazaar to Hemmingford estate	...	1.88

KEGALLA DISTRICT.

Ambepussa to Alawwa	...	5
Dolosbage to Rambukkana	...	50
Kandy road, 34th milepost to Kadugannawa	...	28
Kegalla to Polgahawela	...	7.25
Kegalla to Bulatkohupitiya	...	2.25
Roads to Government premises, Kegalla	...	4
Karawanella to Glenalla	...	1.38
Kinadeniya road	...	1.12

Branch Roads.

Gevilipitiya to Hatgrampola	...	1.65
Glenella-Havilland road	...	3.50

Total	...	17.50
		40.29

5.77	281.96	5.77
346.12	2,029.44	346.12

9,656	23	9,656
196,463	82	196,463

3,631	72	3,631
211,781	21	211,781

697	77,629	697
67	239	67

No. 5.—Bridges constructed at the Government Factory during 1911-12.

Factory Order No.	No. of Spans,	Name,	Spans,	Clear Width,	Weight per ft. run.			Total Dead Weight,	Safe live load per sq. ft.	Estimated Cost.			Type of Bridges,
					Ft. in.	Ft. in.	Owt.			Girders	Flooring	Road Materials	Rs.
625 of 1910 { and 1911 {	1 2	Warakatota, Ratnapura-Halpe road Do.	144 10 60 0	14 0 14 0	10-20 4-83	3-75 3-02	18-23 13-76	3,937-97 2,594-34	120 120	217 55 112 43	31,508 0 13,492 0	Bowstring girders and trough decking. Lattice girders and corrugated floor.	
304 of 1911	2	Do.	78 0	14 0	6-12	2-89	13-62	3,631-30	120	123 8	19,200 0	Do.	
22 of 1911	2	Potuwil-Mupanc road	30 0	11 4	3-10	1-32	8-50	878-56	120	55 10	3,306 0	Rolled beams and curved plates.	
314 of 1911	3	Do.	30 0	11 4	3-10	1-32	8-50	1,317-84	120	55 17	4,965 0	Do.	
85 of 1911	2	Hambantota-Tanamalwila road	30 0	14 10	3-82	1-77	11-12	1,136-28	120	69 77	4,186 0	Do.	
88 of 1911	2	Wellawaya-Tanamalwila road	30 0	11 4	3-10	1-32	8-50	878-56	120	55 10	3,306 0	Do.	
91 of 1911	1	St. Andrew's to Pedro road	30 0	14 10	3-82	1-77	11-12	568-14	120	69 77	2,093 0	Do.	
132 of 1911	1	Pulliyadi-Irakkam-Maddin road	30 0	14 10	3-82	1-77	11-12	568-14	120	69 77	2,093 0	Do.	
170 of 1911	1 out of 2	Kitulgala*	55 10 ¹ ²	14 0	4-54	3-13	10-09	993-08	120	73	6,746 0	Lattice girders and corrugated floor (skew bridge).	
290 of 1911	1	Kunkulu Korale road (3rd section)	30 0	11 4	3-10	1-32	8-50	439-28	120	55 10	1,653 0	Rolled beams and curved plates.	
361 of 1912	1	Gintota**	30 0	17 0	4-40	1-91	12-75	647-82	120	87 23	2,617 0	Do.	
404 of 1912	1	Kegalle-Polgahawela road	30 0	14 10	3-82	1-77	11-12	568-14	120	69 77	2,093 0	Do.	
434 of 1912	1	Bandarawela-Leangahawela road	30 0	11 4	3-10	1-32	8-50	439-28	120	55 10	1,653 0	Do.	
442 of 1912	1	Anuradhapura-Trincomalee road	30 0	14 10	3-82	1-77	11-12	568-14	120	69 77	2,093 0	Do.	
65	Bridges under 30 ft. span	Fitting corrugated iron platform to	—	—	—	—	—	16,009-85	—	—	52,192 0	—	
	Kalutara bridge, 8 spans out of 12	—	—	—	—	—	—	—	—	—	—	44,066 66	
	Widening the roadway of a bridge on the	—	—	—	—	—	—	—	—	—	—	1,984 50	
	Bandarawela-Leangahawela road	—	—	—	—	—	—	—	—	—	—	2,493 75	
	Strengthening two bridges on Veyangoda road	—	—	—	—	—	—	—	—	—	—	1,196 0	
	Repairs to bridges	—	—	—	—	—	—	—	—	—	—	202,936 91	

