

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.	Rs. c.
Western	966,046 25*	1,488,379 41*	2,454,425 66*
Central	502,491 85 ..	425,320 33 ..	927 812 18
Northern	180,482 83 ..	207,856 26 ..	388,339 9
Southern	294,115 36 ..	145,288 51 ..	439,403 87
Eastern	209,931 13 ..	116,761 5 ..	326,692 18
North-Western	336,116 34 ..	211,407 93 ..	547,524 27
North-Central	166,291 56 ..	48,112 73 ..	214,404 29
Uva	304,308 8 ..	291,429 31 ..	595,737 39
Sabaragamuwa	251,557 58 ..	308,971 66 ..	560,529 24
	3,211,340 98	3,243,527 19	6,454,868 17
		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	28·59	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-Crudon, 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-Dummalasuriya, 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 Wattedagama-Ukuwela road, which is nearing completion ; and the St. Andrew's-Pedro road.

16. *In the Northern Province.*—The Paranthan-Karachehi, Pandichudan-Kandavali, Tallady-Pappamodai, 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-Timbultetiya, 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-Kurundoya road, on the 22nd mile, Rikiligasgoda-Rahatungoda road, and on the 66th mile, Kandy-Colombo road; apothecary's quarters, Wategama; 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 Mullaattivu, 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; Cinnaon 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 depôt, 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, Bogawantalawa; 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 Kacheheri; 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 Depot, 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	2,763	74

New Bridges.

Ja-ela bridge ..	32,500	0	—	..	13,628	28
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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, Bogawantalawa 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-Dolosbage 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-Kandavalai 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 ..		7,598 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. c.
<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
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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, Tiriyai ..	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	8,970	0	—	..	8,494 82
Building for Registration Department and Kachcheri records, Puttalam ..	16,140	0	5,783	93	10,349 75
Police Magistrate's quarters, Puttalam ..	3,500	0	—	..	3,498 31
Land Registry, Kurunegala ..	2,600	0	—	..	2,264 1
Kurunegala Hospital ..	17,630	0	—	..	4,287 42
Chilaw Jail ..	3,050	0	—	..	1,354 80
Marawila lock-up ..	2,150	0	—	..	2,053 2
Police Magistrate's quarters, Chilaw ..	8,200	0	—	..	8,013 25
Converting old resthouse, Puttalam, into clerks quarters ..	3,350	0	572	99	2,775 15

New Roads.

Alawwa-Dampelessa road ..	173,700	0	47,612	72	15,981 5
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	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.		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>				
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	4,000 0 ..		2,887 23 ..	904 18
Galas, Wellawaya-Tanamalwila road ..	4,500 0 ..		— ..	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.
Puliadyirakkam-Madhu road	..	6 $\frac{3}{4}$ do.	0 to 6 $\frac{3}{4}$ do.
Mallowapitiya-Rambodagala road	..	5 do.	9 to 14 do.
Watagoda-Talawakele road	..	4 $\frac{1}{2}$ do.	0 to 4 $\frac{1}{2}$ 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	..	$\frac{1}{2}$ do.	0 to $\frac{1}{2}$ do.
Hakmana-Timbulketiya road	..	8 do.	0 to 8 do.
Do.	..	3 do.	8 to 11 do.
Total Mileage	..	62 $\frac{3}{4}$	

(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, Kuliapitiya.
 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 }
Mr. H. F. Tomalin	Mr. C. F. Emerson, Province of Uva.
Mr. E. H. Vanderstraaten } Southern Province.	Mr. G. Waddell }
Mr. R. A. Powell	Mr. R. G. Carte } Province of Sabaragamuwa.
Mr. P. M. Bingham } Eastern Province.	

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 employes 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.

Colombo, October 19, 1912.

FRANCIS A. COOPER,
Director of Public Works.

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	Other Funds ..	109,255 14
Miscellaneous ..	239,218 11	Works chargeable to Surplus Balances ..	291,930 98
		Works chargeable to Loans ..	96,638 50
<i>Extraordinary.</i>		Branch Road Funds ..	3,295 83
New Works and Buildings ..	16,977 35		
Alterations and Additions to Buildings ..	68,920 56	Total ..	1,228,976 56
New Roads ..	16,297 93		

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 Kukulukorale 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 Veyangoda-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 iron 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-Yatiantota 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

<i>New Works and Additions.</i>			
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

<i>Telegraph Instruments and Railway Tablet Instruments.</i>			
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

<i>Telephone Instruments.</i>			
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. 1910-11.	12 months. 1911-12.
<i>Electric Cranes.</i>			
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.

Namu-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.		Sabara-gamuwa.	
	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.			Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.
Maintenance of roads	371,907	29	370,383	64	148,732	32	225,075	87	171,079	66	277,843	24	151,283	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	31,838	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, and additions and improvements to King's houses, Colombo, Kandy, Nuwara Eliya, and Jaffna	869	64	4,031	27	620	37	—	—	—	—	—	—	—	—	—	—	—	—	5,521	28
Maintenance of camp buildings, Diyatalawa	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,793	13	—	—	3,793	13
Maintenance of electric light and fan installations, Colombo, Kandy, and Nuwara Eliya	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,915	30
Maintenance of Mahara jail	4,660	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,660	11
Maintenance of temporary hospitals in cases of epidemics	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maintenance of Customs, wharf, jetties, and cranes	19,499	21	—	—	1,178	62	4,482	15	1,582	3	—	—	—	—	—	—	—	—	26,742	1
Maintenance of plague sheds	139	0	125	26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	264	26
Maintenance of disinfecting station, Breakwater	185	91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	185	91
Maintenance of Trinity House	—	—	—	—	—	—	196	21	—	—	—	—	—	—	—	—	—	—	196	21
Maintenance of southern plague hospital, Galle	—	—	—	—	—	—	599	79	—	—	—	—	—	—	—	—	—	—	599	79
Maintenance of Bathfield house, Galle	—	—	—	—	—	—	233	50	—	—	—	—	—	—	—	—	—	—	233	50
Maintenance of Disinfecting Station and Segregation camp, Kayts	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Special repairs to buildings	10,988	57	—	—	124	54	—	—	—	—	1,969	75	—	—	2,681	59	6,943	23	124	54
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	3,443	31	1,194	17	32,131	74
Additions and improvements to police buildings	1,359	7	1,513	72	307	85	900	28	188	13	666	29	63	0	201	64	528	39	5,728	37
Additions and improvements to prison buildings	2,250	78	387	4	642	88	81	76	35	50	—	—	—	—	—	—	219	25	3,617	21
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	18,216	77
Additions and improvements to postal buildings	2,462	89	858	27	42	50	17	0	112	0	577	49	—	—	681	25	27	60	4,779	0
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	83,298	37
Annual painting the Kelani bridge...	1,890	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,890	7
Urgent repairs to bridges	2,070	46	1,043	46	1,564	92	—	—	—	—	—	—	—	—	—	—	—	—	4,678	84
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	495,582	61
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.
<i>Private Contribution spent on Branch Roads.</i>																			
Maintenance of roads ...	—	—	43,386	76	—	—	3,653	48	—	—	380	31	—	—	2,912	61	5,307	64	55,640 80
Miscellaneous ...	—	—	667	17	—	—	—	—	—	—	—	—	—	—	78	0	—	—	745 17
Total ...	—	—	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.												Miscellaneous.	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.
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	55,329	99	22,611	64	27,699	68	9,736	89	43,090	53	6,970	71	22,139	6	5,025	35	367,639	67
New roads	—	—	34,678	91	34,513	20	—	—	—	—	15,981	5	—	—	115,660	91	67,331	82	268,165	89
Additions and improvements to roads	75,984	98	25,974	62	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	13,628	28	4,289	53	6,070	97	5,996	10	—	—	2,649	66	1,021	64	13,354	99	—	—	47,011	17
Repair of bridges	8,864	22	19,789	84	4,498	34	16,875	68	21,566	5	11,390	24	—	—	2,980	43	123,169	69	209,134	49
Lands and buildings to be acquired	206,728	50	62,175	0	—	—	—	—	—	—	4,000	0	—	—	9,000	0	—	—	281,903	50
Miscellaneous	134,455	16	20,718	37	27,095	80	15,802	5	350	9	2,516	0	9,030	19	29,058	16	6,420	29	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. 2 A.—Statement of Expenditure for 1902.

Classification.	Province.												Total.							
	Western.		Central.		Northern.		Southern.		Eastern.		North-Western.			North-Central.		Uva.		Sabaragamuwa.		
	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.	Rs.	c.		Rs.	c.	Rs.	c.	Rs.	c.	
<i>Private Contribution spent on Branch Roads.</i>																				
New works and buildings ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Additions and improvements to roads ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Roads and bridges ...	—	—	8,924	48	—	—	—	—	—	—	—	—	—	—	—	—	12,694	35	—	—
Repair of bridges ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous ...	—	—	1,011	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total ...	—	—	9,935	50	—	—	—	—	—	—	—	—	—	—	—	—	12,694	35	—	—
																			21,618	83
																			1,011	2
								</												

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

Classification.	Province.										Miscellaneous.	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>Public Works Annually Recurrent.</i>												
Maintenance of roads	371,907 29	413,770 40	148,732 32	228,729 35	171,079 66	278,223 55	151,283 27	260,423 42	213,559 43	—	—	2,237,708 69
Maintenance of inland navigation	27,272 34	—	4,470 25	—	7,238 63	18,377 48	—	—	—	—	—	57,418 70
Maintenance of buildings	81,259 31	36,220 47	16,061 90	24,862 62	14,469 96	15,044 77	9,697 38	14,128 56	9,342 3	21,915 30	—	243,002 30
Special repairs to buildings	10,968 57	—	—	—	—	1,969 78	—	2,681 59	6,943 23	—	—	22,563 14
Additions to buildings	16,798 81	17,761 80	3,292 52	7,108 30	4,760 47	4,389 61	1,316 70	6,543 84	2,501 54	—	—	64,473 9
Maintenance of bridges	12,993 16	10,591 12	3,824 85	14,500 44	9,592 62	17,928 10	3,437 10	3,157 58	13,842 31	—	—	89,867 28
Miscellaneous	160,960 95	24,148 6	4,100 99	18,914 65	2,729 79	183 8	557 11	17,373 59	5,369 4	261,970 52	—	496,307 78
Total Recurrent	682,160 43	502,491 85	180,482 83	294,115 36	209,931 13	336,146 34	166,291 56	304,308 8	251,557 58	283,885 82	—	3,211,340 98
<i>Public Works Extraordinary.</i>												
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	55,329 99	22,611 64	27,699 68	9,736 89	43,090 53	6,970 71	22,139 6	5,025 35	—	—	367,639 67
New roads	—	43,603 39	34,513 20	—	—	15,981 5	—	128,355 26	67,331 82	—	—	289,784 72
Additions and improvements to roads	75,984 98	25,974 62	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	13,628 28	4,289 53	6,070 97	5,996 10	—	2,649 65	1,021 64	13,354 99	—	—	—	47,011 17
Repair of bridges	8,864 22	19,789 84	4,498 34	16,875 68	21,566 5	11,390 24	—	2,980 43	123,169 69	—	—	209,134 49
Lands and buildings to be acquired	206,728 50	62,175 0	—	—	—	4,000 0	—	9,000 0	—	—	—	281,903 50
Miscellaneous	134,455 16	21,729 39	27,095 80	15,802 5	350 9	2,516 0	9,030 19	29,058 16	6,420 29	—	—	246,457 13
Total Extraordinary	683,101 25	258,383 32	125,715 16	127,132 83	104,623 84	208,606 18	47,269 93	240,893 13	221,851 49	—	—	2,017,577 13
Total Recurrent and Extraordinary	1,365,261 68	760,875 17	306,197 99	421,248 19	314,554 97	544,752 52	213,561 49	545,201 21	473,409 7	283,885 82	—	5,228,918 11
<i>Works chargeable to Surplus Balances, Loans, &c.</i>												
Works chargeable to surplus balances	583,545 1	160,010 53	40,598 63	3,071 92	9,927 96	2,056 74	772 5	49,768 60	80,355 93	—	—	930,105 37
Works chargeable to loans	108,734 47	—	38,655 20	13,083 22	—	—	—	—	—	—	—	160,472 89
Decoration and Illumination of public buildings in Colombo	3,927 71	—	—	—	—	—	—	—	—	—	—	3,927 71
Model Distillery at Kalutara	7,253 75	—	—	—	—	—	—	—	—	—	—	7,253 75
Students' Common Room, Medical College	1,466 10	—	—	—	—	—	—	—	—	—	—	1,466 10
Latrine in the Fort of Colombo	3,916 71	—	—	—	—	—	—	—	—	—	—	3,916 71
Drains, Padiyapellella bazaar	—	1,931 77	—	—	—	—	—	—	—	—	—	1,931 77
Drains, Dimbula bazaar	—	1,558 10	—	—	—	—	—	—	—	—	—	1,558 10
Drains along Dutch Point road	—	—	—	—	—	—	—	—	—	—	—	—
Certain alterations in the compound of the District Judge's quarters, Kalutara	1,166 0	—	—	—	1,115 37	—	—	—	—	—	—	1,115 37
Maintenance of Garages by the Public Works Department	—	—	—	—	—	—	—	—	—	—	—	—
Electric lighting of Nanu-oya and Nuwara Eliya	—	2,515 75	—	—	37 32	50 51	—	44 50	—	—	—	132 33
Transport of materials for portable prison and a road roller	—	—	2,647 11	—	0 65	—	—	—	—	—	—	2,647 76

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

Classification.	Province.										Miscellaneous.	Total.
	Western.	Central.	Northern.	Southern.	Eastern.	North-Western.	North-Central.	Uva.	Sabaragamuwa.			
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	
<i>Works chargeable to Surplus Balances, Loans, &c.—contd.</i>												
Bottoming and metalling all approaches, cart roads, &c. ...	—	—	—	—	—	—	—	—	4,916 25	—	4,916 25	
Damage to the Avisawella-Ratnapura road 49th mile post ...	—	—	—	—	—	—	—	—	499 1	—	499 1	
Goods sheds, and cart road, Ratnapura, and repairing road to Railway Station, Avisawella ...	—	—	—	—	—	—	—	—	256 60	—	256 60	
Removing the old beacon at Mullaitivu and repairs to Foul Point Light house ...	—	—	198 0	—	32 37	—	—	—	—	—	230 37	
Head 17, Immigration and Quarantine ...	466 49	—	—	70 0	—	—	—	546 53	767 10	—	536 49	
Head 32, Veterinary Department ...	—	—	—	—	—	—	—	—	—	—	1,313 63	
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 28	—	301 8	
Head 15, Survey Department: pickets for survey of roads, &c. ...	70 33	830 36	42 16	—	—	96 0	—	30 0	35 0	—	942 85	
Head 2, Military Expenditure ...	—	—	—	454 36	—	—	—	—	—	—	615 36	
Alterations to the shelves in the Judges' Law Library, &c. ...	698 86	—	—	—	—	—	—	—	—	—	698 86	
Repairs to Infectious Diseases Hospital, Kanatta ...	432 64	—	—	—	—	—	—	—	—	—	432 64	
Drainage of bazaar 123rd mile Tangalla-Hambantota road ...	—	—	—	—	—	—	—	—	—	—	—	
Drains, Tangalla-Hambantota road ...	—	—	—	324 90	—	—	—	—	—	—	324 90	
Building a latrine at the Naval Sick Quarters ...	—	—	—	135 85	—	—	—	—	—	—	135 85	
Certain repairs to Admiralty House, Trincomalee ...	—	—	—	—	455 54	—	—	—	—	—	455 54	
Dredging of the Taldnuwa Canal ...	—	—	—	—	224 0	—	—	—	—	—	224 0	
Erecting a lean-to shelter, Opium buyers, Negombo hospital ...	460 89	—	—	—	—	—	—	—	—	—	460 89	
Refund of excess paid by contractor Yates ...	112 70	—	—	—	—	—	—	—	—	—	112 70	
Unloading stores from boat at Ratnapura ...	—	—	—	—	—	—	—	126 5	—	—	126 5	
Temporary ward, General Hospital ...	760 50	—	—	—	—	—	—	—	201 0	—	201 0	
Improvements to Pettah Opium Depot ...	250 19	—	—	—	—	—	—	—	—	—	250 19	
Alterations to Government Analyst's Laboratory ...	430 50	—	—	—	—	—	—	—	—	—	430 50	
Counters for sale of opium at Henamulla ...	266 0	—	—	—	—	—	—	—	—	—	266 0	
Repairs to Dispensary and Apothecary's quarters, Trincomalee and Sammanturai ...	—	—	—	—	300 0	—	—	—	—	—	300 0	
Improvements to Government Analyst's Laboratory ...	198 55	—	—	—	—	—	—	—	—	—	198 55	
Removing opium depôts at Urugodawatta and Maradana and establishing one at Panchikawatta ...	162 50	—	—	—	—	—	—	—	—	—	162 50	
Repairs to pump, &c., Master Attendant, Colombo ...	480 69	—	—	—	—	—	—	—	—	—	480 69	
Accumulator Switch Board, Government Analyst's Laboratory ...	604 1	—	—	—	—	—	—	—	—	—	604 1	
Furniture for Survey Office ...	328 72	—	—	—	—	—	—	—	—	—	328 72	

[illegible]

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.					
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Average Cost per Mile.							
															Natural.	Gravelled.	Metalled.	Track Metalled.				
	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Rs. c.
WESTERN PROVINCE.																						
Colombo District.																						
Approach roads to public buildings in the Fort, Colombo	—	—	—	—	1.19	—	854 91	345 0	—	1,199 91	—	—	—	—	—	863 54	1,725 0	—	—	—	—	—
Approach roads to public buildings outside the Fort, Colombo	—	6.11	—	—	6.45	—	1,513 18	237 16	—	1,750 34	—	—	—	—	—	247 65	697 18	—	—	—	—	—
Approach roads to railway stations, Wellawatta, Dehiwala, and Mount Lavinia	—	1	—	—	1.80	—	130 77	299 32	—	430 9	—	10	9	—	—	130 77	374 0	—	—	—	50	—
Approach roads to Kelaniya railway station	—	—	—	—	—	—	—	318 33	—	318 33	—	—	—	—	—	—	884 25	—	—	—	95	—
Kotte road toll bar to junction of Galle road near Wellawatta	—	—	—	—	7	—	—	5,499 31	—	5,499 31	—	—	—	—	—	—	785 61	—	—	—	190	—
Chatham street extension	—	—	—	—	—	—	—	3,266 16	—	3,266 16	—	—	—	—	—	—	5,184 38	—	—	—	800	—
Dematagoda to Wellampitiya	—	—	—	—	—	—	—	805 59	—	805 59	—	—	—	—	—	—	1,032 63	—	—	—	100	—
Grandpass to 34th mile, Kandy road	—	—	—	—	—	—	—	37,984 34	—	37,984 34	—	—	—	—	—	—	1,213 55	—	—	—	200	—
Grandpass to Avisawella	—	—	—	—	—	—	—	25,197 63	—	25,197 63	—	—	—	—	—	—	933 24	—	—	—	200	—
Grandpass to Nambapana	—	—	—	—	—	—	—	11,293 27	—	11,293 27	—	—	—	—	—	—	752 88	—	—	—	100	—
Kelaniya to Biyagama	—	—	—	—	—	—	—	5,093 87	—	5,093 87	—	—	—	—	—	—	636 73	—	—	—	175	—
Municipal toll bar at Bambalapitiya to Kotte road junction	—	—	—	—	—	—	—	599 39	—	599 39	—	—	—	—	—	—	1,198 78	—	—	—	250	—
Urugodawatta road	—	—	—	—	—	—	—	6,881 44	—	6,881 44	—	—	—	—	—	—	1,376 28	—	—	—	300	—
Veyangoda-Ruwanwella road to Western Province boundary	—	—	—	—	—	—	—	8,599 91	—	8,599 91	—	—	—	—	—	—	781 81	—	—	—	225	—
Wellawatta to 7th mile, Galle road	—	—	—	—	—	—	—	4,610 42	—	4,610 42	—	—	—	—	—	—	1,536 80	—	—	—	800	—
Wak-o-ya bridge to Labugama	—	—	—	—	—	—	—	3,647 84	—	3,647 84	—	—	—	—	—	—	429 15	—	—	—	50	—
Pasayala to Attanagalla	—	—	—	—	—	—	—	1,891 79	—	1,891 79	—	—	—	—	—	—	445 12	—	—	—	50	—
Padukka-Bope road	—	—	—	—	—	—	—	2,596 0	—	2,596 0	—	—	—	—	—	—	1,014 6	—	—	—	100	—
Mipe-Padukka-Millewa road	—	—	—	—	—	—	—	4,391 66	—	4,391 66	—	—	—	—	—	—	610 56	—	—	—	100	—
Approach roads to railway stations, Kelani Valley Line up to Avisawella	—	—	—	—	—	—	—	386 15	—	386 15	—	—	—	—	—	—	990 12	—	—	—	25	—
Approach roads to Veyangoda railway station	—	—	—	—	—	—	—	119 24	—	119 24	—	—	—	—	—	—	1,324 88	—	—	—	75	—
Kosgama-Pugoda road	—	—	—	—	—	—	—	859 39	—	859 39	—	—	—	—	—	—	306 92	—	—	—	50	—
Roads within the Customs premises	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Roads to grain sheds, Kochchikade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Approach roads to passenger jetty	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KALUTARA DISTRICT.																						
Horana to Alutgama	—	9	—	—	30.42	—	2,704 21	13,295 71	—	15,999 92	—	8	8	—	—	300 46	620 71	—	—	—	40	160
Approach roads to railway stations, Angulana to Alutgama	—	—	—	—	—	—	—	912 80	—	912 80	—	—	—	—	—	—	527 87	—	—	—	300	1,500
7th mile, Galle road to Bentota	—	—	—	—	—	—	—	41,965 97	—	41,965 97	—	—	—	—	—	—	1,353 74	—	—	—	—	10,20

[illegible]

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.						
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Rs. c.	Rs. c.	Rs. c.	Rs. c.	Natural.	Gravelled.	Metalled.	Track Metalled.	
CENTRAL PROVINCE—contd.																							
<i>Branch Road.</i>																							
Padiyapellella and Elamulla road	—	—	4.89	—	4.89	—	—	2,238 70	—	2,238 70	—	—	—	—	—	—	457 81	—	—	—	—	—	—
KATUGASTOTA DISTRICT.																							
From junction of Hunasgiriya road to Iriyagastenna	—	—	3.20	—	3.20	—	—	3,377 56	—	3,377 56	—	—	—	—	—	—	1,055 49	—	—	—	—	—	—
Gonawatta ferry to Rajawella	—	—	3.75	—	3.75	—	—	2,459 89	—	2,459 89	—	—	—	—	—	—	655 97	—	—	—	—	—	—
Iriyagama to Aladeniya	—	—	6	—	6	—	—	2,750 88	—	2,750 88	—	—	—	—	—	—	458 48	—	—	—	—	—	—
Approach roads to public buildings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Approach roads to railway stations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kadugannawa to Peradeniya	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Katugastota to Madulkele	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Katugastota to Galagedara	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Katugastota to Balakaduwa	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Laggala bridge path	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Madawela to Teldeniya and Nugatenna Gap	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Teldeniya to Rangalla	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Madulkele to Hudu-ganga bridge	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Oouanagala to Madulkele	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
<i>Branch Road.</i>																							
Dotale road	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Duckwari bazaar to Kota-ganga	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Madulkele to Kabaragala	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hudu-ganga bridge to end of Bambara-ela	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Nugatenna Gap to Deanstone	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Rangalla-Nitre Cave road	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kadugannawa to Alagalla	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MATALE DISTRICT.																							
Balakaduwa to junction of Trincomalee-Anuradhapura road	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Beligamuwa to Mirisgani-oya	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kalawewa to Galawela	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Naula to Elahera	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Matale to Rattota	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Palapatwela to Galawela	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ukuwela road	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

[illegible]

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.				
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Rs. c.	Rs. c.	Track Metalled.	Total.	Natural.	Gravelled.	Rs. c.	Rs. c.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.	
CENTRAL PROVINCE—contd.																					
DIMBULA DISTRICT—contd.																					
Lindula to Nuwara Eliya (Lindula to Nanu-oya)	
Tispene road	11	...	11	...	...	...	5,044 55	...	5,044 55	...	...	...	...	...	...	...	...	...
Approach roads to public buildings	2.72	...	2.72	...	...	...	999 3	...	999 3	...	...	...	...	...	...	...	...	...
Approach roads to railway stations	58 0	...	58 0	...	...	...	...	...	...	...	...	...
Horton Plains-Agras bridle path	199 75	...	199 75	...	...	...	...	...	...	...	...	...
Approach roads to goods shed, Nawalapitiya	432 75	...	432 75	...	...	...	...	...	...	...	...	...
Branch Roads.																					
Lindula to end of Agra road	19,993 66	...	19,993 66	...	...	...	...	...	...	...	...	...
Railway Gorge road	1,299 45	...	1,299 45	...	...	...	...	...	...	...	...	...
Walaha road	677 17	...	677 17	...	...	...	...	...	...	...	...	...
Glenlyon-Preston road	1,198 52	...	1,198 52	...	...	...	...	...	...	...	...	...
DIKOYA DISTRICT.																					
Approach roads to public buildings	129 50	...	129 50	...	...	...	...	...	...	...	...	...
Approach roads to railway stations	185 95	...	185 95	...	...	...	...	...	...	...	...	...
Carolina road	688 61	...	688 61	...	...	...	...	...	...	...	...	...
Dikoya road, Nawalapitiya to Hatton bridge junction	10,974 35	...	10,974 35	...	...	...	...	...	...	...	...	...
Dimbula-Dikoya Junction road	2,006 90	...	2,006 90	...	...	...	...	...	...	...	...	...
Ginigathena to boundary of Province	3,501 67	...	3,501 67	...	...	...	...	...	...	...	...	...
Strahdon-Fruit Hill road	676 0	...	676 0	...	...	...	...	...	...	...	...	...
Dikoya road, Hatton bridge junction to Norwood bridge	10,304 59	...	10,304 59	...	...	...	...	...	...	...	...	...
Glenugie-Upcot road	271 35	...	271 35	...	...	...	...	...	...	...	...	...
Branch Roads.																					
Bathford Valley road	2,785 87	...	2,785 87	...	...	...	...	...	...	...	...	...
Dikoya road, Norwood bridge to Campion	7,547 42	...	7,547 42	...	...	...	...	...	...	...	...	...
Maskeliya road, Norwood bridge to Moray	9,796 19	...	9,796 19	...	...	...	...	...	...	...	...	...
Maskeliya road, Maskeliya to Oruden	1,780 89	...	1,780 89	...	...	...	...	...	...	...	...	...
Maskeliya road, Brownlow to Lucombe	1,522 50	...	1,522 50	...	...	...	...	...	...	...	...	...
Norton-Carolina road	2,991 83	...	2,991 83	...	...	...	...	...	...	...	...	...
Norwood-Upcot road	4,972 95	...	4,972 95	...	...	...	...	...	...	...	...	...
Wanarajah road	1,894 53	...	1,894 53	...	...	...	...	...	...	...	...	...
Annfield road	1,385 35	...	1,385 35	...	...	...	...	...	...	...	...	...
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	...

NORTHERN PROVINCE.

JAFFNA DISTRICT.

[illegible]

MANAR DISTRICT.

Approach roads to public buildings
Coast road to Colombo ...
Yakawewa-Pesalai-Talaimannar road
Road from Mannar railway station

Total

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.			
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.		
SOUTHERN PROVINCE.																				
GALLE DISTRICT.																				
Bentota to Goyapana	43-25	—	—	—	43-25	—	—	28,514 93	—	28,514 93	—	—	—	—	—	—	—	—	—	
Dodanduwa to Baddegama	6-50	—	—	—	6-50	—	—	3,486 20	—	3,486 20	—	—	—	—	—	—	—	—	—	
Galle to Udugama	22-75	—	—	—	22-75	—	—	12,978 61	—	12,978 61	—	—	—	—	—	—	—	—	—	
Galle to Akuressa	21	—	—	—	21	—	—	13,699 26	—	13,699 26	—	—	—	—	—	—	—	—	—	
Hikkaduwa to Gonapinuwa	2-70	—	—	—	2-70	—	—	1,799 14	—	1,799 14	—	—	—	—	—	—	—	—	—	
Kahawa to Batapola	5-25	—	—	—	5-25	—	—	640 70	—	640 70	—	—	—	—	—	—	—	—	—	
Roads within the Municipality of Galle	4-75	—	—	—	4-75	—	—	6,298 95	—	6,298 95	—	—	—	—	—	—	—	—	—	
Railway approach roads	63	—	—	—	63	—	—	398 34	—	398 34	—	—	—	—	—	—	—	—	—	
Approach roads to public buildings	1-93	—	—	—	1-93	—	—	1,254 74	—	1,254 74	—	—	—	—	—	—	—	—	—	
Approach roads to goods shed, Ambalangoda	20	—	—	—	20	—	—	319 0	—	319 0	—	—	—	—	—	—	—	—	—	
MATARA DISTRICT.																				
Akuressa to Wiharehena	33	—	—	—	33	—	—	28,786 86	—	28,786 86	—	—	—	—	—	—	—	—	—	
Dikwella to Beliatia	8	—	—	—	8	—	—	4,196 30	—	4,196 30	—	—	—	—	—	—	—	—	—	
Goyapana to Tangalla	36	—	—	—	36	—	—	25,996 42	—	25,996 42	—	—	—	—	—	—	—	—	—	
Hakmana to Tangalla	12	—	—	—	12	—	—	6,495 46	—	6,495 46	—	—	—	—	—	—	—	—	—	
Matara to Hakmana	15	—	—	—	15	—	—	7,996 72	—	7,996 72	—	—	—	—	—	—	—	—	—	
Matara new entrance road	1-25	—	—	—	1-25	—	—	997 96	—	997 96	—	—	—	—	—	—	—	—	—	
Railway approach roads	87	—	—	—	87	—	—	298 70	—	298 70	—	—	—	—	—	—	—	—	—	
Matara-Akuressa road	12-66	—	—	—	12-66	—	—	6,874 26	—	6,874 26	—	—	—	—	—	—	—	—	—	
Approach roads to public buildings	51	—	—	—	51	—	—	108 25	—	108 25	—	—	—	—	—	—	—	—	—	
Branch Road.																				
Deniyaya to Hayes	10-50	—	—	—	10-50	—	—	7,238 14	—	7,238 14	—	—	—	—	—	—	—	—	—	
HAMBANTOTA DISTRICT.																				
Approach roads to public buildings	15	—	—	—	15	—	—	38 0	—	38 0	—	—	—	—	—	—	—	—	—	
Hambantota to Tanamalwila	28-50	—	—	—	28-50	—	—	23,672 99	—	23,672 99	—	—	—	—	—	—	—	—	—	
Lewaya road	2	—	—	—	2	—	—	2,299 94	—	2,299 94	—	—	—	—	—	—	—	—	—	
Tangalla to Hambantota	26	—	—	—	26	—	—	31,334 22	—	31,334 22	—	—	—	—	—	—	—	—	—	
Tangalla-Hambantota road (139th mile) to Liyangahatota	11	—	—	—	11	—	—	2,321 99	—	2,321 99	—	—	—	—	—	—	—	—	—	
Weligatla to Bundala	1-50	—	—	—	1-50	—	—	283 75	—	283 75	—	—	—	—	—	—	—	—	—	
Wirawila to Kirinda via Tissamaharama	5-25	—	—	—	5-25	—	—	1,328 75	—	1,328 75	—	—	—	—	—	—	—	—	—	
Total	24-22	298-93	—	—	323-15	—	—	6,774 95	221,735 92	228,510 87	—	—	—	—	—	—	—	—	—	

EASTERN PROVINCE.

BATTICALOA DISTRICT.

[illegible]

Total

NORTH-WESTERN PROVINCE.

KURNEGALA DISTRICT.

[illegible]

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.									
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Rs. c.	Rs. c.	Metalled.	Track Metalled.	Rs. c.	Rs. c.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Rs. c.	Rs. c.	Metalled.	Track Metalled.	Natural.	Gravelled.	Metalled.	Track Metalled.	
NORTH-WESTERN PROVINCE—contd.																											
<i>Branch Road.</i>																											
Kurunegala-Polgahawela road to Lowlands estate ...																											
PUTTALAM DISTRICT.																											
Akkaraipattu road ...																											
Main road to Kiriankali bridge ...																											
Nikaweratiya to Puttalam ...																											
Puttalam to Kala-oya ...																											
Puttalam to Battulu-oya ...																											
Puttalam to Madurugama ...																											
Service road to Palavi ...																											
Road to salt stores and town roads, Puttalam ...																											
Approach roads to public buildings ...																											
CHILAW DISTRICT.																											
Bo-tree road ...																											
Chilaw-Wariyapola road ...																											
Madampe to Dummalasuriya ...																											
Natandiya to Marawila ...																											
Pilakatumulla road ...																											
Toppu to Battulu-oya ...																											
Toppu to Dankotuwa ...																											
Approach roads to public buildings ...																											
Madampe Chetty street ...																											
Kammala-Dankotuwa road ...																											
DANDUGAMA DISTRICT.																											
Dankotuwa-Giriulla road ...																											
Kurunegala to Giriulla ...																											
Kompaspara road ...																											
Maharagana to Polgahawela ...																											
Naramulla to Dummalasuriya ...																											
Kuliyapitiya to Hettipola ...																											
Alawwa-Dampelassa road ...																											
Total ...																											

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.																				
	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Metalled.	Track Metalled.	Total.	Natural.	Gravelled.	Track Metalled.	Natural.	Gravelled.	Track Metalled.	Natural.	Gravelled.	Track Metalled.																			
PROVINCE OF UVA—contd.																																						
DIYATALAWA DISTRICT.																																						
Bandarawela to Liyangahawela	—	—	8	—	8	—	—	5,499 78	—	5,499 78	—	—	—	—	—	—	—	—	—	—																		
Bandarawela to Welimada	—	—	6	—	6	—	—	3,999 98	—	3,999 98	—	—	—	—	—	—	—	—	—	—																		
Bandarawela to Haputale	—	—	6.50	—	6.50	—	—	3,999 95	—	3,999 95	—	—	—	—	—	—	—	—	—	—																		
Railway station roads	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																		
Rochampton to Diyatalawa	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																		
Haputale and Nanu-oya bridge road to Patipola	15.50	—	—	—	15.50	—	—	3,163 91	—	3,163 91	—	—	—	—	—	—	—	—	—	—																		
Ohya to junction of Horton Plains road	—	—	—	—	—	—	—	784 0	—	784 0	—	—	—	—	—	—	—	—	—	—																		
Approach road to goods shed, Haputale	2	—	—	—	2	—	—	1,809 75	—	1,809 75	—	—	—	—	—	—	—	—	—	—																		
Approach roads to public buildings	—	—	—	—	—	—	—	349 45	—	349 45	—	—	—	—	—	—	—	—	—	—																		
Haldummulla-Horton Plains road	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																		
Approach road to Diyatalawa railway station	12	—	—	—	12	—	—	1,959 56	—	1,959 56	—	—	—	—	—	—	—	—	—	—																		
Road to night soil pits, Diyatalawa	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																		
Branch Road.																																						
Haputale-Dambattenna road	—	—	5.75	—	5.75	—	—	4,455 99	—	4,455 99	—	—	—	—	—	—	—	—	—	—																		
PASSARA DISTRICT.																																						
Badulla to boundary of Eastern Province	—	—	49.50	—	49.50	—	—	53,248 75	—	53,248 75	—	—	—	—	—	—	—	—	—	—																		
Bibile to Medagama and Muppane	—	—	25.50	—	25.50	—	—	7,545 8	—	7,545 8	—	—	—	—	—	—	—	—	—	—																		
Bibile to Alutnuwara	—	—	11	—	11	—	—	6,952 94	—	6,952 94	—	—	—	—	—	—	—	—	—	—																		
Kumbalwela-Passara road	—	—	8.25	—	8.25	—	—	1,439 5	—	1,439 5	—	—	—	—	—	—	—	—	—	—																		
Passara to Dunedin factory	—	—	18.75	—	18.75	—	—	6,958 39	—	6,958 39	—	—	—	—	—	—	—	—	—	—																		
Passara-Nakkala road	—	—	—	—	—	—	—	15,729 16	—	15,729 16	—	—	—	—	—	—	—	—	—	—																		
Approach roads to public buildings	17	—	—	—	17	—	—	2,245 53	—	2,245 53	—	—	—	—	—	—	—	—	—	—																		
KOSLANDA DISTRICT.																																						
Haputale to Halpe	—	—	12.75	—	12.75	—	—	11,390 75	—	11,390 75	—	—	—	—	—	—	—	—	—	—																		
Badagoda deviation	—	—	—	—	—	—	—	244 85	—	244 85	—	—	—	—	—	—	—	—	—	—																		
Haldummulla to Wellawaya	—	—	22.50	—	22.50	—	—	17,825 10	—	17,825 10	—	—	—	—	—	—	—	—	—	—																		
Wellawaya to Tanamalwila	—	—	21.50	—	21.50	—	—	13,280 13	—	13,280 13	—	—	—	—	—	—	—	—	—	—																		
Wellawaya to Monaragala and towards Pothuvil	14.40	—	22.50	—	47.15	—	—	7,191 31	—	7,191 31	—	—	—	—	—	—	—	—	—	—																		
Muppane bazaar road	—	—	—	—	—	—	—	3,275 90	—	3,275 90	—	—	—	—	—	—	—	—	—	—																		
Approach roads to public buildings	—	—	—	—	—	—	—	268 67	—	268 67	—	—	—	—	—	—	—	—	—	—																		
Branch Road.																																						
Koslanda bazaar to Poonagala factory	—	—	2.75	—	2.75	—	—	1,312 13	—	1,312 13	—	—	—	—	—	—	—	—	—	—																		
Total	97.25	24.37	263.88	28.50	414.01	11,882.68	8,630 0	231,449 63	8,391 99	260,414 30	1,312 13	—	—	—	—	—	—	—	—	—																		

PROVINCE OF SABARAGAMUWA.

RATNAPURA DISTRICT.

[illegible]

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.
					Girders.	Flooring.	Road Materials.			Per ft. run.	Total.	
			Ft. in.	Ft. in.	Cwt.	Cwt.	Cwt.	Cwt.	lb.	Rs. c.	Rs. c.	
625 of 1910 and 1911	1	Warakatota, Ratnapura-Halpe road	144 10	14 0	10-20	3-75	13-23	3,937-97	120	217 55	31,508 0	Bowstring girders and trough decking.
304 of 1911	2	Do.	60 0	14 0	4-33	3-02	13-76	2,594-34	120	112 43	13,492 0	Lattice girders and corrugated floor.
22 of 1911	2	Potuwil-Mupane road	78 0	14 0	6-12	2-89	13-62	3,531-30	120	123 8	19,200 0	Do.
314 of 1911	3	Do.	30 0	11 4	3-10	1-32	8-50	878-56	120	55 10	3,306 0	Rolled beams and curved plates.
85 of 1911	2	Hambantota-Tanamalwila road	30 0	11 4	3-10	1-32	8-50	1,317-84	120	55 17	4,965 0	Do.
88 of 1911	2	Wellawaya-Tanamalwila road	30 0	14 10	3-82	1-77	11-12	1,136-28	120	69 77	4,186 0	Do.
91 of 1911	1	St. Andrew's to Pedro road	30 0	11 4	3-10	1-32	8-50	878-56	120	55 10	3,306 0	Do.
132 of 1911	1	Puliyadi-Irakkam-Madhu 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 10½	14 0	4-54	3-13	10-09	993-08	120	120 73	6,746 0	Lattice girders and corrugated floor (skew bridge.)
290 of 1911	1	Kukulu 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	—	—	—	—	—	16,009-85	—	—	52,192 0	
		Fitting corrugated iron platform to Kalutara bridge, 8 spans out of 12	—	—	—	—	—	—	—	—	44,066 66	
		Widening the roadway of a bridge on the Bandarawela-Leangahawela road	—	—	—	—	—	—	—	—	1,984 50	
		Strengthening two bridges on Veyangoda road	—	—	—	—	—	—	—	—	2,493 75	
		Repairs to bridges	—	—	—	—	—	—	—	—	1,196 0	
											202,936 91	

