1898.

Public Works (~~191~~ ) Department.

Railway Branch.

G.O., No. 720-21/Ry

1898.

DATED 13th May ~~191~~ .

[Despatch Abstract.]

Budget Estimates.

Ordered that the final issue of the revised and ——— of the Madras Railway (Capital & Revenue) for the years 1897-98 and 1898-99, be forwarded to the Govt. of India.

Forwarding the final issue of the Revised and Budget Estimates of the Madras Railway (Capital and Revenue) for the years 1897-98 and 1898-99.

P. W. O.
5,000—23-7-10.

Indexed. 16-5-98.

## BACK PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
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RAILWAY.

# Government {1898} of Madras.

## PUBLIC WORKS.

*Recd.* / *Regd.* } 1898. *Enclosures* / *Spare copies*

**G.O., No. 720 Ry., 13th May 1898.**

**MAY.**

**Budget Estimates**

Ordered that the final issue of the Revised and — of the Madras Railway (Capital and Revenue) for the years 1897-98 and 1898-99, be forwarded to the Government of India.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

**Railway.**

Read the following paper :—

From—The Agent and Manager, Madras Railway.
To—The Consulting Engineer for Railways, Madras.
Dated—2nd May 1898, No. 10352/A/384.

Order—No. 720 Ry., dated 13th May 1898.

Ordered that the final issue of the revised and budget estimates of the Madras Railway (Capital and Revenue) for the years 1897–98 and 1898–99, be forwarded to the Government of India.

[Here enter No. 721 Ry., dated 13th May 1898.]

(True Extract.)

Francis J. E. Spring,
Joint Secretary.

To the Agent and Manager, Madras Railway.
" Examiner of Railway Accounts, Madras.
" Consulting Engineer for Railways.

Exd. C. Parthasarathy.

FINAL ISSUE.

# BUDGET ESTIMATE

OF THE

# MADRAS RAILWAY

FOR THE YEAR

# 1898-99.

## CAPITAL ACCOUNT.

ABSTRACT of the ESTIMATED CASH EXPENDITURE on the MADRAS RAILWAY for the official year 1898–99.

| Particulars. | Actuals for 1896–97. | Budget estimate for 1897–98. | Revised estimate for 1897–98. | Budget estimate for 1898–99. |
|---|---|---|---|---|
| INDIAN. | RS. | RS. | RS. | RS. |
| CAPITAL OUTLAY. | | | | |
| *Engineering Department.* | | | | |
| Sanctioned works as per schedule A ... ... | | 1,36,752 | 1,74,718 | 1,56,613 |
| Works to be sanctioned do. B ... ... | | 3,73,074 | ... | 3,18,434 |
| Emergent works do. D ... ... | | ... | ... | .. |
| *Locomotive Department.* | | | | |
| Sanctioned works as per schedule A ... ... | 1,59,144 | 2,028 | 9,904 | 5,453 |
| Works to be sanctioned do. B ... ... | | 4,296 | ... | 300 |
| *Carriage and Wagon Department.* | | | | |
| Sanctioned works as per schedule A ... ... | | 24,380 | 22,466 | 94,152 |
| Works to be sanctioned do. B ... ... | | 61,963 | | 82,900 |
| Outlay on extensions ... ... ... ... | ... | ... | 1,50,000 | 26,50,000 |
| *General.* | | | | |
| Establishment ... ... ... ... ... | .. | ... | ... | |
| Stores as per schedule E ... ... ... | 20,62,095 | 18,97,507 | 17,37,912 | 20,12,148 |
| Miscellaneous ... ... ... ... ... | 3,235 | 5,000 | 5,000 | 5,000 |
| Suspense miscellaneous ... ... ... | 18,758 | 2,20,000 | 1,50,000 | 1,50,000 |
| Increase or decrease of balance of Capital Advance Account ... ... ... ... | 9,400 | ... | ... | ... |
| Total, Withdrawals on Capital Account ... | 22,52,632 | 27,25,000 | 22,50,000 | 54,75,000 |
| *Receipts to be credited to Capital Account.* | | | | |
| Share capital paid in India ... ... ... | ... | ... | ... | ... |
| Refunds for stores sold to Revenue, &c. ... | 24,62,045 | 25,00,000 | 25,00,000 | 25,00,000 |
| Other refunds— | | | | |
| Home expenditure, &c. ... ... ... | 1,21,165 | 2,00,000 | 3,00,000 | 3,00,000 |
| Total, Payments on Capital Account ... | 25,83,210 | 27,00,000 | 28,00,000 | 28,00,000 |
| Net cash demand in India on Capital Account ... | **3,30,578** | 25,000 | **5,50,000** | 26,75,000 |
| ENGLAND. | | | | |
| Probable amount of outstanding indents of the previous year ... ... ... ... ... | ... | 3,52,023 | 4,09,000 | 7,93,121 |
| Probable amount of indents to be sent home for compliance during the year ... ... ... | ... | 9,38,000 | 11,08,485 | 39,78,307 |
| Total ... | ... | 12,90,023 | 15,17,485 | 47,71,428 |
| Deduct probable amount of outstanding indents at the close of the year ... | ... | 2,07,205 | 7,93,121 | 20,45,064 |
| Total, Outlay for Stores ... | 7,31,524 | 10,82,818 | 7,24,364 | 27,26,364 |
| *Home Expenditure and Payments.* | | | | |
| Home expenditure ... ... ... ... | 84,833 | 79,636 | 81,818 | 81,8 |
| Furlough and sick leave allowances ... ... | | 4,364 | 8,727 | 10,909 |
| Family and sundry payments less receipts ... | | 26,182 | 13,091 | 10,909 |
| Total, Home Expenditure and Payments ... | 84,833 | 1,10,182 | 1,03,636 | 1,03,636 |
| Total, Cash Demand in England ... | 8,16,357 | 11,93,000 | 8,28,000 | 28,30,000 |



## REVENUE ACCOUNT.

ABSTRACT of ESTIMATED REVENUE RECEIPTS and EXPENDITURE of the MADRAS RAILWAY for the official year 1898–99.

| Particulars. | Actuals for 1896–97. | Budget estimate for 1897–98. | Revised estimate for 1897–98. | Budget estimate for 1898–99. |
|---|---|---|---|---|
| RECEIPTS AS PER SCHEDULE F. | RS. | RS. | RS. | RS. |
| Coaching traffic ... ... ... ... | 45,46,792 | 46,00,000 | 46,00,000 | 46,00,000 |
| Goods do. ... ... ... ... | 62,66,154 | 61,20,000 | 66,00,000 | 62,00,000 |
| Electric Telegraph earnings ... ... ... | 20,194 | 20,000 | 20,000 | 20,000 |
| Sundries ... ... ... ... ... | 1,92,687 | 1,60,000 | 1,80,000 | 1,80,000 |
| Total (1) ... | 1,10,25,827 | 1,09,00,000 | 1,14,00,000 | 1,10,00,000 |
| Receipts on account of traffic appertaining to other lines ... ... ... ... ... | 15,64,749 | 16,00,000 | 16,00,000 | 16,00,000 |
| Receipts from Capital Account other than traffic earnings ... ... ... ... | | | | |
| Receipts from foreign lines other than traffic earnings ... ... ... ... ... | | | | |
| Other abnormal receipts in detail or as per schedule attached ... ... ... ... | ... | ... | ... | ... |
| Total, Payments into Treasury on Revenue Account (2) ... | 1,25,90,576 | 1,25,00,000 | 1,30,00,000 | 1,26,00,000 |
| EXPENDITURE AS PER SCHEDULE G. | | | | |
| Maintenance of way, works and stations ... | 12,48,591 | 13,31,100 | 13,00,000 | 13,00,000 |
| Locomotive expenses ... ... ... ... | 20,88,417 | 20,87,400 | 21,60,000 | 21,00,000 |
| Carriage and wagon expenses ... ... ... | 6,53,029 | 6,37,900 | 6,10,000 | 5,50,000 |
| Traffic expenses ... ... ... ... | 8,52,204 | 8,37,500 | 8,80,000 | 8,50,000 |
| General charges ... ... ... ... | 5,79,018 | 6,08,400 | 6,50,000 | 6,05,000 |
| Special and miscellaneous expenditure ... | 86,139 | 97,700 | 1,00,000 | 95,000 |
| Total (3) ... | 55,07,398 | 56,00,000 | 57,00,000 | 55,00,000 |
| Payments to other lines of their proportion of through traffic, &c. ... ... ... ... | 15,92,501 | 16,00,000 | 16,00,000 | 16,00,000 |
| Payments to Capital Account other than for stores, &c., included in the working expenses in schedule G ... ... ... ... | | | | |
| Other abnormal payments in detail or as per schedule attached ... ... ... ... | ... | ... | ... | ... |
| Total, Withdrawals from Treasury on Revenue Account (4) ... | 70,99,899 | 72,00,000 | 73,00,000 | 71,00,000 |
| Net earnings (1)—(3) ... | 55,18,429 | 53,00,000 | 57,00,000 | 55,00,000 |
| Net receipts (2)—(4) ... | 54,90,677 | 53,00,000 | 57,00,000 | 55,00,000 |
| Surplus profits, Company's share ... | ... | | 91,500 | ... |
| Contribution to Provident institution ... ... | ... | | 8,500 | ... |

CAPI TAL.

SCHEDULE A OR CONSTRUCTION BUDGET—PART I.

Budget Estimate of Sanctioned Works of the Madras Railway for the official year 1898–99.

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Amount of estimate. Value of stores. | Amount of estimate. Total expenditure. | Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Actual expenditure up to close of official year 1896–97. Value of stores. | Actual expenditure up to close of official year 1896–97. Total. | Probable expenditure during 1897–98. Cash outlay in India. | Probable expenditure during 1897–98. Value of stores. | Probable expenditure during 1897–98. Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Budget estimate of expenditure for official year 1898–99. Value of stores. | Budget estimate of expenditure for official year 1898–99. Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | |
| | | | *Bridgework.* | | | | | | | | | | | | | | |
| 1 | G.O., No. 132 R.<br>M.O.M. ..<br>M.O.M. .. | 17th Feb. 1896.<br>29th Oct. 1897.<br>25th Mar. 1898. | Converting the 30-feet arch bridge at 168/10 miles, Bangalore branch, into a girder opening. | 5,450 | 2,379 | 7,829 | 391 | 1,212 | 1,603 | 1,059 | 500 | 1,559 | 4,000 | 667 | 4,667 | .. | |
| 2 | G.O., No. 336 R.<br>M.O.M. .. | 11th May 1897.<br>28th Jan. 1898. | Restoration of bridge, &c., at 95/2-3 miles, North-west line. | 7,463 | 209 | 7,672 | .. | .. | .. | 11,562 | 209 | 11,771 | .. | .. | .. | .. | Revised estimate sent forward for sanction and sanction for further reallocation will be obtained. |
| 3 | G.O., No. 834 R. | 16th Oct. 1897. | Diversion of the Kodur river at 107/10-11 miles, North-west line. | 19,427 | .. | 19,427 | .. | .. | .. | 5,000 | .. | 5,000 | 14,427 | .. | 14,427 | .. | |
| | | | *Stations and Buildings.* | | | | | | | | | | | | | | |
| | | | Ráyapuram. | | | | | | | | | | | | | | |
| 4 | G.O., No. 728 R. | 24th Sept. 1897. | Alteration of sidings, &c, at Ráyapuram. | 866 | 4,921 | 5,787 | .. | .. | .. | 700 | 1,000 | 1,700 | 166 | 3,921 | 4,087 | .. | |
| | | | Washermanpet. | | | | | | | | | | | | | | |
| 5 | G.O., No. 56 R.<br>M.O.M. .. | 26th Jan. 1897.<br>28th „ 1898. | Extension of the through siding for the Ennur line at Washermanpet. | 3,187 | 3,348 | 6,535 | 490 | .. | 490 | 2,697 | 3,348 | 6,045 | .. | .. | .. | .. | |
| | | | Central Station. | | | | | | | | | | | | | | |
| 6 | G.O., No. 503 R.<br>M.O.M. .. | 26th July 1897.<br>25th Mar. 1898. | Carriage examining pits at Central station. | 4,484 | 2,051 | 6,535 | .. | .. | .. | 4,000 | 1,800 | 5,800 | 484 | 251 | 735 | .. | |
| 7 | G.O., No. 693 R.<br>M.O.M. .. | 20th Sept. 1897.<br>25th Mar. 1898. | Foot over-bridge at Elephant gate level crossing. | 1,728 | 4,672 | 6,400 | .. | .. | .. | 1,628 | 4,000 | 5,628 | 100 | 672 | 772 | .. | One half of the cost will be borne by the Madras Municipality. |
| | | | Perambúr Works. | | | | | | | | | | | | | | |
| 8 | G.O., No. 564 R.<br>M.O.M. .. | 16th Aug. 1897.<br>29th Oct. „ | Bungalow for the use of the First Assistant Locomotive Superintendent at Perambúr. | 8,513 | 1,087 | 9,600 | 3,779 | 583 | 4,362 | 4,734 | 954 | 5,688 | .. | .. | .. | .. | |
| 9 | G.I. No. 104 R.C.<br>G.O., No. 117 R.<br>M.O.M. .. | 27th Jan. 1896.<br>13th Feb. „<br>25th Mar. 1898. | Extension of the erecting shed, Foreman's office and tool stores at Perambúr Works. | 20,211 | 17,335 | 37,546 | 7,533 | 7,982 | 15,515 | 4,000 | 4,000 | 8,000 | 8,678 | 5,353 | 14,031 | .. | Sanction for the excess over estimate will be obtained on the completion of the work. |
| 10 | G.O., No. 421 R.<br>M.O.M. .. | 4th May 1896.<br>29th Sept. 1897. | Additional shed for stabling of His Excellency the Governor's saloons at Perambúr Works. | 962 | 4,175 | 5,137 | 612 | 2,078 | 2,690 | 350 | 700 | 1,050 | .. | .. | .. | .. | The alteration is due to a reallocation which has been approved of but not recorded being under Rs. 500. |
| 11 | G.O., No. 1147 R | 16th Dec. „ | Raising boundary wall at Perambúr works. | 4,809 | 950 | 5,759 | .. | .. | .. | 100 | 50 | 150 | 4,709 | 900 | 5,609 | .. | |
| 12 | G.O., No. 81 R. | 17th Jan. 1898. | Filling up side ditches at 3/13-20 miles south west line. | 5,996 | .. | 5,996 | .. | .. | .. | .. | .. | .. | 5,996 | .. | 5,996 | .. | |
| | | | Tiruvallúr. | | | | | | | | | | | | | | |
| 13 | G.O., No. 434 R.<br>M.O.M. .. | 13th May 1896.<br>29th Sept. 1897. | Alterations and additions to the station-house at Tiruvallúr. | 5,211 | 2,031 | 7,242 | 4,139 | 2,468 | 6,607 | 760 | Cr. 438 | 322 | .. | .. | .. | .. | |
| | | | Arkonam. | | | | | | | | | | | | | | |
| 14 | G.O., No. 513 R. | 1st April 1898. | Converting the existing telegraph workshop and store yards into quarters for weigh-bridge fitter, assistant weigh-bridge fitter and power house for electric lighting at Arkonam. | 3,970 | 1,323 | 5,303 | .. | .. | .. | .. | .. | .. | 3,970 | 1,333 | 5,303 | .. | |
| | | | Jálárpet. | | | | | | | | | | | | | | |
| 15 | G.O., No. 4 R.<br>M.O.M. .. | 4th Jan. 1897.<br>25th Mar. 1898. | Additional water-supply at Jálárpet .. | 6,572 | 4,322 | 10,894 | .. | 91 | 91 | 6,000 | 3,300 | 9,300 | 572 | 931 | 1,503 | .. | |
| 16 | G.O., No. 23 R.<br>M.O.M. ..<br>M.O.M. ..<br>C.E. No. 418. | 9th Jan. 1896.<br>2nd Dec. „<br>29th Oct. 1897.<br>11th Feb. 1898. | Converting the Assistant Traffic Manager's bungalow into an Institute at Jálárpet. | 2,502 | 4,605 | 7,107 | 271 | 1,653 | 1,924 | 2,231 | 2,952 | 5,183 | .. | .. | .. | .. | |
| 17 | G.O., No. 899 R.<br>M.O.M. .. | 24th Dec. 1895.<br>29th Oct. 1897. | Assistant Traffic Manager's bungalow at Jálárpet. | 6,045 | 4,496 | 10,[illegible] | 6,045 | 4,668 | 10,713 | .. | Cr. 172 | Cr. 172 | .. | .. | .. | .. | |
| | | | Bowringpet. | | | | | | | | | | | | | | |
| 18 | C.E. No. 3211.<br>G.O., No. 950 R.<br>M.O.M. .. | 12th Oct. 1896.<br>11th Nov. 1897.<br>3rd Dec. „ | Proposed foot bridge at Bowringpet .. | 853 | 5,147 | 6,000 | .. | 3,177 | 3,177 | 853 | 1,970 | 2,823 | .. | .. | .. | .. | |
| | | | Bisanatham. | | | | | | | | | | | | | | |
| 19 | G.O., No. 412 R. | 15th Mar. 1898. | Station-house, &c., at Bisanatham .. | 2,533 | 3,529 | 6,062 | .. | .. | .. | .. | .. | .. | 2,533 | 3,529 | 6,062 | .. | |

## Budget Estimate of Sanctioned Works of the Madras Railway for the official year 1898–99—*cont.*

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. | Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | *Stations and Buildings*—cont. | | | | | | | | | | | | | | |
| | | | Whitefield (Watering Station). | | | | | | | | | | | | | | |
| 20 | G.O. No. 964 R.<br>M.O.M. ..<br>M.O.M. .. | 14th Nov. 1896.<br>29th Sept. 1897.<br>3rd Dec. ,, | Water from nullah at 203/14 miles, Bangalore branch. | 3,105 | 14,873 | 17,978 | .. | .. | .. | 300 | 7,000 | 7,300 | 2,805 | 7,873 | 10,678 | .. | |
| | | | Bangalore City. | | | | | | | | | | | | | | |
| 21 | G.I. No. 94 R.C.<br>G.O. No. 81 R.<br>C.E. No. 3061.<br>M.O.M. ..<br>G.I. No. 1340 R.C.<br>G.I. No. 1831 R.C.<br>G.O., No. 1041 R. | 30th Jan. 1894.<br>6th Feb. ,,<br>30th Sept. 1895.<br>30th ,, 1896.<br>8th ,, ,,<br>4th Dec. ,,<br>14th ,, ,, | Alterations and additions to station-house, platform, &c., at Bangalore City. | 2,19,939 | 1,74,413 | 3,94,352 | 1,28,331 | 71,875 | 2,00,206 | 40,000 | 50,000 | 90,000 | 51,608 | 52,538 | 1,04,146 | .. | |
| 22 | C.E. No. 3326.<br>M.O.M. .. | 21st Oct. 1895.<br>26th May 1893. | Purchasing Locomotive Foreman's bungalow at Bangalore City. | 10,000 | .. | 10,000 | .. | .. | .. | 10,000 | .. | 10,000 | .. | .. | .. | .. | |
| | | | Mangalam. | | | | | | | | | | | | | | |
| 23 | G.O. No. 1158 R. | 17th Dec. 1897. | Extension of goods godown and siding at Mangalam. | 1,282 | 5,074 | 6,356 | .. | .. | .. | 282 | 500 | 782 | 1,000 | 4,574 | 5,574 | .. | |
| | | | Pódanúr. | | | | | | | | | | | | | | |
| 24 | G.O. No. 1063 R. | 19th Dec. 1896. | Proposed institute at Pódanúr .. .. | 3,812 | 3,270 | 7,082 | 63 | 58 | 121 | 2,470 | 4,719 | 7,180* | .. | .. | .. | .. | |
| | | | Méttupálaiyam. | | | | | | | | | | | | | | |
| 25 | G.O. No. 2675 R.<br>C.E. No. 1062.<br>M.O.M. ..<br>M.O.M. ..<br>C.E., No. 149 .<br>M.O.M. .. | 11th Nov. 1892.<br>5th Dec. ,,<br>24th Jan. 1896.<br>27th ,, 1897.<br>17th ,, 1898.<br>25th Feb. ,, | Alterations and additions in connection with the junction of the Nilgiri Railway with the Madras Railway at Méttupálaiyam. | 17,591 | 6,955 | 24,546 | 12,646 | 6,956 | 19,602 | 4,945 | .. | 4,945 | .. | .. | .. | .. | |
| | | | Kallayi. | | | | | | | | | | | | | | |
| 26 | G.O., No. 269 R. | 17th Feb. 1898. | Additional dock at Kallayi .. .. | 2,107 | 5,814 | 7,921 | .. | .. | .. | 107 | 300 | 407 | 2,000 | 5,514 | 7,514 | .. | |
| | | | Ponpadi. | | | | | | | | | | | | | | |
| 27 | G.O. No. 416 R. | 25th June 1897. | Station house, &c., at Ponpadi .. .. | 5,362 | 4,095 | 9,457 | .. | .. | .. | 750 | 2,000 | 2,750 | 4,612 | 2,095 | 6,707 | .. | |
| | | | Nagari. | | | | | | | | | | | | | | |
| 28 | G.O. No. 522 R.<br>M.O.M. ..<br>M.O.M. ..<br>M.O.M. .. | 15th Aug. 1895.<br>29th Sept. 1897.<br>29th Oct. ,,<br>25th Mar. 1898. | Interlocking points and signals at Nagari. | 830 | 8,462 | 9,292 | 261 | 7,649 | 7,910 | 685 | 754 | 1,439* | .. | .. | .. | .. | |
| | | | Nandalúr. | | | | | | | | | | | | | | |
| 29 | G.I. No. 21 R.C.<br>G.O. No. 46 R.<br>M.O.M. ..<br>M.O.M. .. | 7th Jan. 1896.<br>15th ,, ,,<br>29th Sept. 1897.<br>25th Mar. 1898 | Conversion of Nandalúr into an engine-changing station. | 27,113 | 16,576 | 43,689 | 21,656 | 8,600 | 30,256 | 8,000 | 15,100 | 23,100 | .. | .. | .. | .. | Revised estimate will be forwarded. |
| 30 | G.O. No. 925 R.<br>M.O.M. ..<br>M.O.M. .. | 27th Oct. 1896.<br>5th Aug. 1897.<br>28th Jan. 1898. | Watering arrangements at Nandalúr .. | 4,299 | 4,867 | 9,166 | 1,190 | 1,087 | 2,277 | 2,810 | 4,279 | 7,089* | .. | .. | .. | .. | |
| | | | Yerragudipad. | | | | | | | | | | | | | | |
| 31 | G.O. No. 130 R. | 24th Jan. 1898. | Proposed station-house &c., at Yerragudipad. | 7,834 | 4,176 | 12,010 | .. | .. | .. | 234 | 350 | 584 | 7,600 | 3,826 | 11,426 | .. | |
| | | | Kalamala. | | | | | | | | | | | | | | |
| 32 | G.O. No. 410 R. | 19th Jan. 1897. | Proposed station-house at Kalamala .. | 7,121 | 5,387 | 12,508 | .. | .. | .. | 4,500 | 2,500 | 7,000 | 2,621 | 2,887 | 5,508 | .. | |
| | | | Gooty. | | | | | | | | | | | | | | |
| 33 | G.O. No. 849 R.<br>M.O.M. .. | 8th Oct. 1896.<br>29th ,, 1897. | Double bungalow for European and East Indian drivers at Gooty. | 5,141 | 1,537 | 6,678 | 3,592 | 1,189 | 4,781 | 1,549 | 348 | 1,897 | .. | .. | .. | .. | |
| 34 | G.O. No. 48 R. | 23rd Jan. ,, | Assistant Engineer's bungalow at Gooty. | 6,169 | 4,257 | 10,426 | 1,247 | 948 | 2,195 | 4,866 | 3,684 | 8,550* | .. | .. | .. | .. | |
| 35 | G.O. No. 405 R. | 15th June ,, | Locomotive workshops, alteration of locomotive sidings and new 50 feet engine turn-table in lieu of the existing 40 feet one at Gooty. | 1,863 | 6,680 | 8,543 | .. | .. | .. | .. | .. | .. | 1,877 | 9,032 | 10,909 | .. | Revised estimate sent forward for sanction. |
| 36 | G.O. No. 754 R.<br>M.O.M. .. | 7th Sept. 1896.<br>26th Aug. 1897. | Nineteen houses for the use of the subordinate staff (Traffic Department), South-west line. | 3,470 | 1,736 | 5,206 | 3,022 | 1,372 | 4,394 | 20 | 67 | 87 | .. | .. | .. | .. | |

* Sanction for the excess over estimate will be obtained on the completion of the work.

## Budget Estimate of Sanctioned Works of the Madras Railway for the official year 1898-99—*cont.*

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. | Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897-98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898-99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | *Stations and Buildings*—cont. | | | | | | | | | | | | | | |
| | | | Gooty—*cont.* | | | | | | | | | | | | | | |
| 37 | G.O. No. 1159 R. | 17th Dec. 1897. | Twenty-two houses for subordinate staff (Traffic Department). | 4,630 | 2,760 | 7,390 | .. | .. | .. | 2,100 | 200 | 2,300 | 2,530 | 2,560 | 5,090 | .. | |
| 38 | G.O. No. 694 R. | 19th Oct. 1895. | Altering the distant signals on the Madras Railway. | 419 | 5,061 | 5,480 | .. | 3,406 | 3,406 | 419 | 879 | 1,298 | .. | .. | .. | .. | Work completed. The alteration is due to a re-allocation which has been approved of, but not recorded being under Rs. 500. |
| | M.O.M. .. | 25th June 1897. | | | | | | | | | | | | | | | |
| | M.O.M. .. | 29th Oct. ,, | | | | | | | | | | | | | | | |
| | M.O.M. .. | 29th April 1898. | | | | | | | | | | | | | | | |
| 39 | G.O. No. 208 R. | 26th Mar. 1897 | Alteration of home signals so that their arms will fly to danger on any connection breaking on South-west and North-west lines. | 4,185 | 4,340 | 8,525 | .. | .. | .. | 3,500 | 3,500 | 7,000 | 685 | 840 | 1,525 | .. | |
| | M.O.M. .. | 26th Aug. ,, | | | | | | | | | | | | | | | |
| | | | *Electric Telegraph.* | | | | | | | | | | | | | | |
| 40 | G.O. No. 798 R. | 25th July 1889. | Revised estimate for the extension of the block system and the introduction of starting semaphore signals, &c., South-west and North-west lines, including additional stations. | 64,943 | 1,01,818 | 1,66,761 | 65,042 | 99,251 | 1,64,293 | Cr. 642 | 274 | Cr. 368 | 543 | 2,293 | 2,836 | .. | |
| | G.I. No. 649 R.C. | 9th ,, ,, | | | | | | | | | | | | | | | |
| | M.O.M. .. | 5th Aug. 1897. | | | | | | | | | | | | | | | |
| 41 | G.O. No. 111 R. | 1st Feb. 1889. | Single needle instruments, batteries, &c., for trial or additional stations. | 4,122 | 3,588 | 7,710 | 1,645 | 1,794 | 3,439 | 165 | 5 | 170 | .. | .. | .. | .. | |
| | M.O.M. .. | 26th ,, 1897. | | | | | | | | | | | | | | | |
| | M.O.M. .. | 29th April 1898. | | | | | | | | | | | | | | | |
| 42 | G.O. No. 429 R. | 15th Aug. 1894. | Lighting the Arkónam station and yard by electricity. | 3,830 | 12,170 | 16,000 | 65 | 442 | 507 | 550 | 11,228 | 11,778 | 3,215 | 500 | 3,715 | .. | |
| | M.O.M. .. | 5th ,, 1897. | Sanctioned minor works as per Schedule C. | 74,439 | 75,756 | 1,50,195 | 10,282 | 9,202 | 19,484 | 41,434 | 34,979 | 76,413 | 29,882 | 30,388 | 60,270 | .. | |
| | | | Total, Engineering Department .. | 5,94,388 | 5,40,255 | 11,34,643 | 2,72,302 | 2,37,741 | 5,10,043 | 1,74,718 | 1,66,830 | 3,41,548 | 1,56,613 | 1,42,477 | 2,99,090 | .. | |
| | | | LOCOMOTIVE DEPARTMENT. | | | | | | | | | | | | | | |
| 1 | G.O. No. 804 R. | 21st Sept. 1896. | Fitting automatic vacuum brake gear for ten engines. | 2,496 | 12,124 | 14,620 | 916 | 8,105 | 9,021 | 944 | 3,403 | 4,347 | 636 | 616 | 1,252 | .. | |
| | M.O.M. .. | 29th April 1898. | | | | | | | | | | | | | | | |
| 2 | G.O. No. 642 R. | 28th July 1896. | Do. do. do. | 1,200 | 8,680 | 9,880 | .. | .. | .. | 360 | 8,250 | 8,610 | 840 | 430 | 1,270 | .. | |
| | G.I. No. 302 R.S. | 13th ,, ,, | | | | | | | | | | | | | | | |
| 3 | G.O. No. 14 R. | 8th Jan. 1897. | Fitting automatic vacuum brake gear for four engines. | 1,200 | 3,889 | 5,089 | 3 | .. | 3 | 300 | 3,250 | 3,550 | 897 | 639 | 1,536 | .. | |
| 4 | G.O. No. 361 R. | 20th May ,, | Two new locomotive engines .. .. | 8,400 | 27,518 | 35,918 | .. | .. | .. | 8,000 | 27,350 | 35,350 | 400 | 168 | 568 | .. | |
| | G.I. No. 191 R.S. | 5th ,, ,, | | | | | | | | | | | | | | | |
| | M.O.M. .. | 29th April 1898. | | | | | | | | | | | | | | | |
| 5 | G.O. No. 391 R. | 5th June 1897. | Fitting automatic vacuum brake gear for six engines. | 2,500 | 6,760 | 9,260 | .. | .. | .. | .. | .. | .. | 2,500 | 6,760 | 9,260 | .. | |
| | G.I. No. 213 R.S. | 22nd May ,, | | | | | | | | | | | | | | | |
| 6 | G.O. No. 650 R. | 15th Sept. ,, | Do. do. do. | 300 | 5,660 | 5,960 | .. | .. | .. | 300 | 5,660 | 5,960 | .. | .. | .. | .. | |
| 7 | G.O. No. 445 R. | 8th July ,, | One planing machine .. .. .. | 180 | 6,090 | 6,270 | .. | .. | .. | .. | .. | .. | 180 | 6,090 | 6,270 | .. | |
| | | | Total, Locomotive Department .. | 16,276 | 70,721 | 86,997 | 919 | 8,105 | 9,024 | 9,904 | 47,913 | 57,817 | 5,453 | 14,703 | 20,156 | .. | |
| | | | CARRIAGE AND WAGON DEPARTMENT. | | | | | | | | | | | | | | |
| 1 | G.O. No. 102 R. | 13th Feb. 1897. | Fitting carriages with apparatus for gas lighting. | 20,814 | 1,90,442 | 2,11,256 | 19,245 | 1,21,013 | 1,40,258 | 900 | 40,000 | 40,900 | 669 | 29,429 | 30,098 | .. | |
| | G.I. No. 55 R.S. | 2nd ,, ,, | | | | | | | | | | | | | | | |
| 2 | G.O. No. 361 R. | 20th May ,, | Two composites bogie .. .. | 25,425 | 1,01,385 | 1,26,810 | 11,942 | 39,812 | 51,754 | 7,000 | 56,600 | 63,600 | 6,483 | 4,973 | 11,456 | .. | |
| | G.I. No. 191 R.S. | 5th ,, ,, | Seventeen third-class carriages .. | | | | | | | | | | | | | | |
| | | | Two third-class carriages with brakes .. | | | | | | | | | | | | | | |
| | | | Two ordinary brake vans .. | | | | | | | | | | | | | | |
| 3 | G.O. No. 804 R. | 21st Sept. 1896. | Fitting automatic vacuum brake gear for fifty carriages. | 4,254 | 21,153 | 25,407 | 1,498 | 9,956 | 11,454 | 2,756 | 11,197 | 13,953 | .. | .. | .. | .. | |
| | M.O.M. .. | 29th April 1898. | Do. do. do. | 5,000 | 22,380 | 27,380 | 2,990 | 3,201 | 6,191 | 2,010 | 19,179 | 21,189 | .. | .. | .. | .. | |
| 4 | G.O. No. 642 R. | 28th July 1896. | One bogie corridor composite carriage .. | 3,756 | 15,744 | 19,500 | .. | .. | .. | 3,500 | 15,600 | 19,100 | 256 | 144 | 400 | .. | |
| | G.I. No. 302 R.S. | 13th ,, ,, | Fitting automatic vacuum brake gear for two hundred carriages. | 25,684 | 85,507 | 1,11,191 | .. | .. | .. | 5,300 | 60,000 | 65,300 | 20,384 | 25,507 | 45,891 | .. | |
| 5 | G.O. No. 136 R. | 18th Feb. ,, | Forty-six third-class carriages .. | 31,510 | 1,64,473 | 1,95,983 | .. | .. | .. | 1,000 | 30,000 | 31,000 | 36,510 | 1,34,473 | 1,64,983 | .. | |
| | M.O.M. .. | 29th April 1898. | | | | | | | | | | | | | | | |
| 6 | G.O. No. 391 R. | 5th June 1897. | Five bogie composite carriages, 1st, 2nd and 3rd. | 35,850 | 1,14,150 | 1,50,000 | .. | .. | .. | .. | .. | .. | 35,850 | 1,14,150 | 1,50,000 | .. | 443/794 of the total cost of this stock to be recovered from Great Indian Peninsula Railway. |
| | G.I. No. 213 R.S. | 22nd May ,, | Five bogie third-class carriages .. | | | | | | | | | | | | | | |
| 7 | G.O. No. 751 R. | 30th Sept. 1897. | | | | | | | | | | | | | | | |
| | G.I. No. 1398 R.C. | 26th Aug. ,, | | | | | | | | | | | | | | | |
| 8 | G.O. No. 814 R. | 13th Oct. 1897. | | | | | | | | | | | | | | | |
| | G.I. No. 395 R.S. | 4th ,, ,, | | | | | | | | | | | | | | | |
| | | | Total, Carriage and Wagon Department. | 1,52,293 | 7,15,234 | 8,67,527 | 35,675 | 1,73,982 | 2,09,657 | 22,466 | 2,32,576 | 2,55,042 | 94,152 | 3,08,676 | 4,02,828 | .. | |
| | | | Total, Schedule A .. | 7,62,957 | 13,26,210 | 20,89,167 | 3,08,896 | 4,19,828 | 7,28,724 | 2,07,088 | 4,47,319 | 6,54,407 | 2,56,218 | 4,65,856 | 7,22,074 | .. | |

SCHEDULE B OR CONSTR[illegible]

BUDGET Estimate of Unsanctioned Works of the [illegible] WORKS—PART II.

Madras Railway for the official year 1898–99.

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Amount of estimate. Value of stores. | Amount of estimate. Total expenditure. | Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Actual expenditure up to close of official year 1896–97. Value of stores. | Actual expenditure up to close of official year 1896–97. Total. | Probable expenditure during 1897–98. Cash outlay in India. | Probable expenditure during 1897–98. Value of stores. | Probable expenditure during 1897–98. Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Budget estimate of expenditure for official year 1898–99. Value of stores. | Budget estimate of expenditure for official year 1898–99. Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | *Stations and Buildings.* | | | | | | | | | | | | | | |
| | | | Ráyapuram. | | | | | | | | | | | | | | |
| 1 | .. | .. | Export and import sheds and sidings at Ráyapuram. | 12,406 | 35,644 | 48,050 | .. | .. | .. | .. | .. | .. | 10,000 | 10,000 | 20,000 | 28,050 | |
| 2 | .. | .. | Branch line and siding for harbour coal traffic at Ráyapuram. | 5,156 | 18,672 | 23,828 | .. | .. | .. | .. | .. | .. | 5,156 | 10,000 | 15,156 | 8,672 | |
| 3 | .. | .. | Madras Railway and South Indian Railway joint station and line within the limits of Ráyapuram yard. | 55,675 | 51,376 | 1,07,051 | .. | .. | .. | .. | .. | .. | 25,000 | 15,000 | 40,000 | 67,051 | |
| 4 | .. | .. | Verandah or window shades on the north side of the Ticket Printing office, additional accommodation to Traffic Audit office and record-room at Ráyapuram. | 6,790 | 4,528 | 11,318 | .. | .. | .. | .. | .. | .. | 6,790 | 4,528 | 11,318 | .. | |
| | | | Washermanpet. | | | | | | | | | | | | | | |
| 5 | .. | .. | Branch line from Washermanpet to Salt Cotaurs. | 71,734 | 30,289 | 1,02,023 | .. | .. | .. | .. | .. | .. | 30,000 | 20,000 | 50,000 | 52,023 | |
| 6 | .. | .. | Junction station at Washermanpet and extension to Ráyapuram. | 49,068 | 6,587 | 55,655 | .. | .. | .. | .. | .. | .. | 10,000 | 6,587 | 16,587 | 39,068 | |
| | | | Salt Cotaurs. | | | | | | | | | | | | | | |
| 7 | .. | .. | Junction arrangement at Salt Cotaurs in connection with East Coast Railway. | 4,23,202 | 73,680 | 4,96,882 | .. | .. | .. | .. | .. | .. | 40,000 | 30,000 | 70,000 | 4,26,882 | |
| 8 | .. | .. | Proposed boundary wall and raising ground at Salt Cotaurs. | 7,568 | 262 | 7,830 | .. | .. | .. | .. | .. | .. | 7,568 | 262 | 7,830 | .. | |
| | | | Central Station. | | | | | | | | | | | | | | |
| 9 | .. | .. | Station master's house, &c., at Central Station. | 3,217 | 1,818 | 5,035 | .. | .. | .. | .. | .. | .. | 3,217 | 1,818 | 5,035 | .. | |
| | | | Perambúr Works. | | | | | | | | | | | | | | |
| 10 | .. | .. | Bungalow for Second Assistant Locomotive Superintendent, at Perambúr Works. | 4,329 | 2,871 | 7,200 | .. | .. | .. | .. | .. | .. | 4,329 | 2,871 | 7,200 | .. | |
| 11 | .. | .. | Bungalow for Medical officer at Perambúr. | 5,601 | 3,999 | 9,600 | .. | .. | .. | .. | .. | .. | 5,601 | 3,999 | 9,600 | .. | |
| 12 | .. | .. | Proposed extension of workshops at Perambúr. | 3,31,626 | 2,73,508 | 6,05,134 | .. | .. | .. | .. | .. | .. | 20,000 | 30,000 | 50,000 | 5,55,134 | |
| | | | Arkónam. | | | | | | | | | | | | | | |
| 13 | .. | .. | Improvements and additions to the station yard at Arkónam. | 54,286 | 37,260 | 91,546 | .. | .. | .. | .. | .. | .. | 16,113 | 20,000 | 36,113 | 55,433 | |
| | | | Bangalore City. | | | | | | | | | | | | | | |
| 14 | .. | .. | Five houses for European joint clerks at Bangalore City. | 13,445 | 2,980 | 16,425 | .. | .. | .. | .. | .. | .. | 13,445 | 2,980 | 16,425 | .. | |
| 15 | .. | .. | Proposed shed for making gas at Bangalore City. | 8,732 | 7,434 | 16,166 | .. | .. | .. | .. | .. | .. | 8,732 | 7,434 | 16,166 | .. | |
| | | | Erode. | | | | | | | | | | | | | | |
| 16 | .. | .. | Alteration to station-house at Erode .. | 4,473 | 4,467 | 8,940 | .. | .. | .. | .. | .. | .. | 4,473 | 4,467 | 8,940 | .. | |
| | | | Mettupalaiyam. | | | | | | | | | | | | | | |
| 17 | .. | .. | Watering arrangements at Mettupalaiyam. | 8,208 | 15,858 | 24,066 | .. | .. | .. | .. | .. | .. | 8,208 | 15,858 | 24,066 | .. | |
| | | | Nandalur. | | | | | | | | | | | | | | |
| 18 | .. | .. | Twenty-two houses for subordinate staff at Nandalur. | 6,731 | 2,775 | 9,506 | .. | .. | .. | .. | .. | .. | 6,731 | 2,775 | 9,506 | .. | |
| 19 | .. | .. | Apothecary's quarters and dispensary at Nandalur. | 4,565 | 1,808 | [illegible] | .. | .. | .. | .. | .. | .. | 4,565 | 1,808 | 6,373 | .. | |
| | | | Gooty. | | | | | | | | | | | | | | |
| 20 | .. | .. | Watering arrangements, bringing water by pipes from stream at 258/11 miles, North-west line. | 2,375 | 7,892 | 10,267 | .. | .. | .. | .. | .. | .. | 2,375 | 7,892 | 10,267 | .. | |

## Budget Estimate of Unsanctioned Works of the [illegible]

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | Rs. | Rs. | Rs. |
| | | | *Stations and Buildings*—cont. | | | |
| 21 | .. | .. | Raichur. Alteration to station yards at Raichur .. | 5,224 | 8,841 | 14,065 |
| | | | Miscellaneous. | | | |
| 22 | .. | .. | Two complete trial stations including lay-byes, loading banks, platforms, &c. | 14,592 | 10,824 | 25,416 |
| 23 | .. | .. | Two crossing stations .. .. .. | 4,888 | 15,648 | 20,536 |
| 24 | .. | .. | Four double bungalows for guards .. .. | 17,008 | 5,744 | 22,752 |
| 25 | .. | .. | Six houses for Native stationmasters .. | 4,398 | 2,442 | 6,840 |
| 26 | .. | .. | Twenty-five houses for subordinate staff (Traffic Department). | 7,688 | 3,162 | 10,850 |
| 27 | .. | .. | Distant signals for six stations, South-west and North-west lines. | 1,320 | 5,016 | 6,336 |
| | | | *Electric Telegraph.* | | | |
| 28 | .. | .. | Lighting the Arkónam station and yard by electricity. | Cr. 1,140 | 3,354 | 2,214 |
| | | | Unsanctioned minor works as per Schedule C. | 32,153 | 17,084 | 49,237 |
| | | | Total, Engineering Department .. | 11,65,318 | 6,55,823 | 18,21,141 |
| | | | LOCOMOTIVE DEPARTMENT. | | | |
| 1 | .. | .. | Fitting automatic vacuum brake gear for eight engines. | 400 | 7,550 | 7,950 |
| | | | CARRIAGE AND WAGON DEPARTMENT. | | | |
| 1 | .. | .. | Fitting automatic vacuum brake gear for 200 carriages. | 25,684 | 85,507 | 1,11,191 |
| 2 | .. | .. | Two tool vans .. .. .. | 1,240 | 5,760 | 7,000 |
| 3 | .. | .. | Two tank wagons for kerosine-oil, 15 tons. | 1,540 | 6,360 | 7,900 |
| 4 | .. | .. | Two hundred open goods .. .. | 47,436 | 3,20,564 | 3,68,000 |
| 5 | .. | .. | Gas plant for joint installation at Bangalore city. | 7,000 | 38,000 | 45,000 |
| | | | Total, Carriage and Wagon Department. | 82,900 | 4,56,191 | 5,39,091 |
| | | | Total, Schedule B .. | 12,48,618 | 11,19,564 | 23,68,182 |



Madras Railway for the official year 1898-99—*cont.*

| Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897-98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898-99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| .. | .. | .. | .. | .. | .. | 5,224 | 8,841 | 14,065 | .. | |
| .. | .. | .. | .. | .. | .. | 14,592 | 10,824 | 25,416 | .. | |
| .. | .. | .. | .. | .. | .. | 4,888 | 15,648 | 20,536 | .. | |
| .. | .. | .. | .. | .. | .. | 17,008 | 5,744 | 22,752 | .. | |
| .. | .. | .. | .. | .. | .. | 4,398 | 2,442 | 6,840 | .. | |
| .. | .. | .. | .. | .. | .. | 7,688 | 3,162 | 10,850 | .. | |
| .. | .. | .. | .. | .. | .. | 1,320 | 5,016 | 6,336 | .. | |
| .. | .. | .. | .. | .. | .. | Cr. 1,140 | 3,354 | 2,214 | .. | Difference between the estimate sanctioned in G.O., No. 429 R., dated 15th August 1894, and the revised estimate. |
| .. | .. | .. | .. | .. | .. | 32,153 | 17,084 | 49,237 | .. | |
| .. | .. | .. | .. | .. | .. | 3,18,434 | 2,70,394 | 5,88,828 | 12,32,313 | |
| .. | .. | .. | .. | .. | .. | 300 | 5,700 | 6,000 | 1,950 | |
| .. | .. | .. | .. | .. | .. | 25,684 | 85,507 | 1,11,191 | .. | |
| .. | .. | .. | .. | .. | .. | 1,240 | 5,760 | 7,000 | .. | |
| .. | .. | .. | .. | .. | .. | 1,540 | 6,360 | 7,900 | .. | |
| .. | .. | .. | .. | .. | .. | 47,436 | 3,20,564 | 3,68,000 | .. | |
| .. | .. | .. | .. | .. | .. | 7,000 | 38,000 | 45,000 | .. | |
| .. | .. | .. | .. | .. | .. | 82,900 | 4,56,191 | 5,39,091 | .. | |
| .. | .. | .. | .. | .. | .. | 4,01,634 | 7,32,285 | 11,33,919 | 12,34,263 | |

SCHEDULE C OR CONSTRUCTION [illegible] he

BUDGET ESTIMATE of Minor Works of the [illegible] WORKS—PART III.

[illegible] Railway for the official year 1898-99.

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. | Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897-98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898-99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SANCTIONED WORKS. | | | | | | | | | | | | | | |
| | | | ENGINEERING DEPARTMENT. | | | | | | | | | | | | | | |
| | | | *Bridgework.* | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| 1 | C.E. No. 725 .. M.O.M. .. | 4th Mar. 1896. 28th Oct. ,, | Strengthening the girders of bridge No. 82 at 175/16 miles, Bangalore branch. | 375 | 2,429 | 2,804 | .. | .. | .. | .. | .. | .. | 375 | 2,429 | 2,804 | .. | |
| 2 | C.E. No. 3222.. | 15th ,, 1897. | Strengthening 2-64 feet girders by inserting central masonry piers at 307/17 miles, Nilgiri branch line. | 817 | 213 | 1,030 | .. | .. | .. | 800 | 200 | 1,000 | 17 | 13 | 30 | .. | |
| 3 | C.E. No. 3222 .. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 312/13 miles, Nilgiri branch line. | 955 | 213 | 1,168 | .. | .. | .. | 500 | 150 | 650 | 455 | 63 | 518 | .. | |
| 4 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 314/10 miles, Nilgiri branch line. | 996 | 213 | 1,209 | .. | .. | .. | 900 | 200 | 1,100 | 96 | 13 | 109 | .. | |
| 5 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 142/10 miles, North-west line. | 651 | 212 | 863 | .. | .. | .. | .. | .. | .. | 651 | 212 | 863 | .. | |
| 6 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 4-64 feet girders by inserting central masonry piers at 232/3 miles, North-west line. | 2,010 | 425 | 2,435 | .. | .. | .. | .. | .. | .. | 2,010 | 425 | 2,435 | .. | |
| 7 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 232/10 miles, North-west line. | 833 | 212 | 1,045 | .. | .. | .. | .. | .. | .. | 833 | 212 | 1,045 | .. | |
| 8 | C.E. No. 3515.. | 17th Nov. ,, | Strengthening 4-64 feet girders at 313/12 miles, Nilgiri branch line. | 2,733 | 425 | 3,158 | .. | .. | .. | 733 | 225 | 958 | 2,000 | 200 | 2,200 | .. | |
| 9 | C.E. No. 3515.. | 17th ,, ,, | Strengthening 4-64 feet girders at 321/13 miles, Nilgiri branch line | 2,342 | 426 | 2,768 | .. | .. | .. | 342 | 226 | 568 | 2,000 | 200 | 2,200 | .. | |
| 10 | C.E. No. 3515.. | 17th ,, ,, | Strengthening 4-64 feet girders at 308/17 miles, Nilgiri branch line. | 3,087 | 425 | 3,512 | .. | .. | .. | 2,800 | 225 | 3,025 | 287 | 200 | 487 | .. | |
| 11 | G.O. No. 336 R. M.O.M. .. | 11th May ,, 25th Mar. 1898. | Restoration of bridge No. 251 at 107/10-11 miles, North-West line. | 3,851 | .. | 3,851 | .. | .. | .. | 14,399 | 2,756 | 17,155 | .. | .. | .. | .. | Revised estimate sent forward for sanction. |
| | | | *Stations and Buildings.* | | | | | | | | | | | | | | |
| | | | Ráyapuram. | | | | | | | | | | | | | | |
| 12 | C.E. No. 997 .. M.O.M. .. M.O.M. .. | 27th Mar. 1896. 25th June 1897. 29th April 1898. | Lengthening the engine turn-table at Rónigunta from 45 to 50 feet and fixing it at Ráyapuram. | 735 | 750 | 1,485 | .. | .. | .. | .. | 750 | * 750 | .. | .. | .. | .. | * Work completed. The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| 13 | C.E. No. 2733.. M.O.M. .. | 23rd Aug. 1897. 25th Mar. 1898. | Re-arrangement of signals between Washermanpet and Ráyapuram. | 130 | 1,825 | 1,955 | .. | .. | .. | 210 | 745 | † 955 | .. | 1,000 | 1,000 | .. | |
| 14 | C.E. No. 2539.. M.O.M. .. | 4th Aug. 1897. 25th Mar. 1898. | Substitution of larger level crossing gates at Monegar Choultry. | 564 | 506 | 1,070 | .. | .. | .. | 164 | 206 | 370 | 400 | 300 | 700 | .. | |
| | | | Washermanpet. | | | | | | | | | | | | | | |
| 15 | C.E. No. 2003.. M.O.M. .. | 16t June 1897. 25th Mar. 1898. | Substitution of larger level crossing gate at Washermanpet. | 644 | 608 | 1,252 | .. | .. | .. | 344 | 500 | 844 | 300 | 108 | 408 | .. | |
| 16 | C.E. No. 2956.. | 11th Sept. 1897. | Extension of platform at Washermanpet station on Ennur line side. | 1,082 | 706 | 1,788 | .. | .. | .. | 1,082 | 706 | 1,788 | .. | .. | .. | .. | |
| 17 | C.E No. 871 .. | 25th Mar. 1898. | Extension of through siding at Washermanpet to connect lay-bye at Rayapuram (South West line). | 200 | 1,955 | 2,155 | .. | .. | .. | .. | .. | .. | .. | 200 | 1,955 | 2,155 | .. | |
| 18 | C.E. No. 1134.. M.O.M. .. | 25th ,, 1897. 28th Jan. 1898. | Inserting rubble drains through bank slopes from 2/0 to 3/5 miles, South-west line. | 1,206 | .. | 1,206 | .. | .. | .. | 1,121 | .. | 1,121 | .. | .. | .. | .. | |
| | | | Perambúr Works. | | | | | | | | | | | | | | |
| 19 | C.E. No. 2056.. M.O.M. .. | 23rd June 1896. 3rd Dec. 1897. | Additions and alterations to tyre shop at Perambúr Works. | 1,606 | 715 | 2,321 | 623 | 241 | 864 | 883 | 259 | 1,142 | 100 | 215 | 315 | .. | |
| 20 | C.E. No. 1884.. M.O.M. .. | 22nd June 1896. 29th Sept. 1897. | Interlocking points and signals at west end of Perambúr Works. | 247 | 2,899 | 3,146 | .. | 1,185 | 1,185 | 635 | 1,600 | ‡ 2,235 | .. | .. | .. | .. | ‡ Sanction for the excess over estimate will be obtained on the completion of the work. |
| 21 | C.E. No. 1886.. M.O.M. .. | 6th June ,, 3rd Dec. ,, | Proposed pattern loft under water tank iron foundry at Perambúr Works. | 252 | 1,579 | 1,831 | .. | .. | .. | 252 | 1,579 | 1,831 | .. | .. | .. | .. | |
| 22 | C.E. No. 2598.. | 10th Aug. ,, | Examining pits in carriage lifting shed at Perambúr Works. | 1,044 | 437 | 1,481 | .. | .. | .. | 1,044 | 437 | 1,481 | .. | .. | .. | .. | |
| 23 | C.E. No. 2954.. M.O.M. .. | 11th Sept. ,, 25th Mar. 1898. | Line leading from timber yard into saw mills at Perambúr Workshop yard. | 187 | 2,592 | 2,779 | .. | .. | .. | 120 | 2,200 | 2,320 | 67 | 392 | 459 | .. | |
| 24 | C.E. No. 3844.. | 17th Dec. 1897. | Lower roof and ventilation to erecting and fitting shop at Perambur works. | 444 | 2,450 | 2,894 | .. | .. | .. | 100 | 450 | 550 | 344 | 2,000 | 2,344 | .. | |
| | | | Arkónam. | | | | | | | | | | | | | | |
| 25 | C.E. No. 500 .. M.O.M. .. | 10th Feb. 1897. 28th Jan. 1898. | Saw pit for engineering workshops at Arkónam. | 893 | 664 | 1,557 | .. | .. | .. | 731 | 663 | § 1,394 | .. | .. | .. | .. | § The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |

† Sanction for re-allocation of the estimate will be obtained subsequently.

## Budget Estimate of Minor Works of [illegible] Works of the [illegible] Madras Railway for the official year 1898-99—*cont.*

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure | Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897-98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898-99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | | | | | | | | | | | | | | |
| | | | *Stations and Buildings*—cont. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | Arkónam—cont. | | | | | | | | | | | | | | |
| 26 | C.E. No. 2002 .. | 16th June 1897. | Timber shed in engineering workshops at Arkónam. | 937 | 1,323 | 2,260 | .. | .. | .. | 1,084 | 1,323 | * 2,407 | 20 | 40 | 60 | .. | * Sanction for the excess over estimate will be obtained on the completion of the work. |
| | M.O.M. .. | 25th Mar. 1898. | | | | | | | | | | | | | | | |
| 27 | C.E. No. 3869.. | 18th Dec. 1897. | Depôt shed at Arkónam .. .. | 2,554 | 500 | 3,054 | .. | .. | .. | 154 | 100 | 254 | 2,400 | 400 | 2,800 | .. | |
| 28 | C.E. No. 842 .. | 23rd Mar. 1898. | Additional room, &c., to Engine drivers' bungalow No. 25 at Arkónam. | 871 | 849 | 1,720 | .. | .. | .. | .. | .. | .. | 871 | 849 | 1,720 | .. | |
| 29 | C.E. No. 870 .. | 25th ,, ,, | Converting travelling Auditors' bungalow into school mistress' quarters at Arkónam. | 618 | 635 | 1,253 | .. | .. | .. | .. | .. | .. | 618 | 635 | 1,253 | .. | |
| 30 | C.E. No. 937 .. | 1st April ,, | Transfer of Telegraph workshop to proposed new site at Arkónam. | 1,378 | 2,953 | 4,331 | .. | .. | .. | .. | .. | .. | 1,378 | 2,953 | 4,331 | .. | |
| | | | Munnal. | | | | | | | | | | | | | | |
| 31 | C.E. No. 3786.. | 11th Dec. 1897. | Interlocking points and signal at Munnal. | 223 | 2,246 | 2,469 | .. | .. | .. | 50 | 246 | 296 | 173 | 2,000 | 2,173 | .. | |
| | | | Arcot. | | | | | | | | | | | | | | |
| 32 | C.E. No. 2728.. | 27th Aug. 1895. | Six houses for subordinate staff at Arcot. | 805 | 429 | 1,234 | .. | .. | .. | .. | .. | .. | 805 | 429 | 1,234 | .. | |
| | M.O.M. .. | 30th Sept. 1896. | | | | | | | | | | | | | | | |
| | M.O.M. .. | 2nd Dec. ,, | | | | | | | | | | | | | | | |
| | M.O.M. .. | 3rd Dec. 1897. | | | | | | | | | | | | | | | |
| | | | Virinchipuram. | | | | | | | | | | | | | | |
| 33 | C.E. No. 936 .. | 1st April 1898. | Wooden palings on platform in lieu of wire fence at Virinchipuram. | 64 | 1,275 | 1,339 | .. | .. | .. | .. | .. | .. | 64 | 1,275 | 1,339 | .. | |
| | | | Ambúr. | | | | | | | | | | | | | | |
| 34 | C.E. No. 2802.. | 8th Sept. 1896. | Alterations and additions to station-house at Ambúr. | 440 | 70 | 510 | 428 | 69 | 497 | Cr. 53 | .. | Cr. 53 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| | M.O.M. .. | 5th Aug. 1897. | | | | | | | | | | | | | | | |
| | M.O.M. .. | 29th Sept. ,, | | | | | | | | | | | | | | | |
| | | | Buddireddipatti. | | | | | | | | | | | | | | |
| 35 | C.E. No. 1008.. | 8th April 1898. | Proposed additional wrought iron tank at Buddireddipatti. | 30 | 1,082 | 1,112 | .. | .. | .. | .. | .. | .. | 30 | 1,082 | 1,112 | .. | |
| | | | Jalarpet. | | | | | | | | | | | | | | |
| 36 | C.E. No. 3870.. | 18th Dec. 1897. | Double bungalow for family guards at Jalarpet. | 3,218 | 1,563 | 4,781 | .. | .. | .. | 218 | 563 | 781 | 3,000 | 1,000 | 4,000 | .. | |
| | | | Mullanur. | | | | | | | | | | | | | | |
| 37 | C.E. No. 283 .. | 28th Jan. 1898. | Proposed additional sidings at Mullanur. | 477 | 2,912 | 3,389 | .. | .. | .. | 77 | 200 | 277 | 400 | 2,712 | 3,112 | .. | |
| | | | Gudupalli. | | | | | | | | | | | | | | |
| 38 | C.E. No. 1887.. | 22nd June 1896. | Watering arrangement at Gudupalli .. | 1,720 | 956 | 2,676 | 1,720 | 940 | 2,660 | .. | 16 | 16 | .. | .. | .. | .. | |
| | C.E. No. 2113.. | 15th July ,, | | | | | | | | | | | | | | | |
| | M.O.M. .. | 26th Aug. 1897. | | | | | | | | | | | | | | | |
| | | | Bisanatham. | | | | | | | | | | | | | | |
| 39 | C.E. No. 318 .. | 26th Jan. 1897. | Stationmaster and Assistant Station-master's houses at Bisanatham. | 1,246 | 914 | 2,160 | 151 | 205 | 356 | 936 | 521 | 1,457 | .. | .. | .. | .. | |
| | M.O.M. .. | 29th Oct. ,, | | | | | | | | | | | | | | | |
| 40 | C.E. No. 1932.. | 10th June ,, | Four houses for subordinate staff of the Traffic Department at Bisanatham. | 775 | 440 | 1,215 | .. | .. | .. | 775 | 368 | † 1,143 | .. | .. | .. | .. | † The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| | M.O.M. .. | 25th Mar. 1898. | | | | | | | | | | | | | | | |
| | | | Bowringpet. | | | | | | | | | | | | | | |
| 41 | C.E. No. 1806.. | 13th June 1896. | Locomotive siding at Bowringpet .. | 944 | 1,386 | 2,330 | 3 | .. | 3 | .. | 1,072 | 1,072 | .. | .. | .. | .. | |
| | M.O.M. .. | 26th Aug. 1897. | | | | | | | | | | | | | | | |
| 42 | C.E. No. 2955.. | 11th Sept. ,, | Signals arrangement at Bowringpet .. | 316 | 2,725 | 3,041 | .. | .. | .. | 216 | 1,500 | 1,716 | 100 | 1,225 | 1,325 | .. | |
| | M.O.M. .. | 25th Mar. 1898. | | | | | | | | | | | | | | | |
| 43 | C.E. No. 1174.. | 15th April 1896. | Removing and refixing engine turn-table and alteration of sidings at Bowringpet. | 391 | 2,453 | 2,844 | 81 | 557 | 638 | .. | 1,139 | 1,139 | .. | .. | .. | .. | |
| | M.O.M. .. | 26th Aug. 1897. | | | | | | | | | | | | | | | |
| 44 | C.E. No. 1534.. | 18th May 1896. | Third-class waiting room to be extended westwards to take in the present store-room and fruit stall to be built beyond this at Bowringpet. | 1,536 | 905 | 2,441 | 1,329 | 879 | 2,208 | Cr. 48 | 25 | Cr. 23 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| | M.O.M. .. | 29th Sept. 1897. | | | | | | | | | | | | | | | |
| | M.O.M. .. | 29th Oct. ,, | | | | | | | | | | | | | | | |
| 45 | C.E. No. 3857.. | 18 Dec. 1897 .. | Raising and increasing the capacity of Locomotive tank at Bowringpet. | 2,879 | 30 | 2,909 | .. | .. | .. | 309 | .. | 300 | 2,579 | 30 | 2,609 | .. | |
| | | | Krishnarajapuram. | | | | | | | | | | | | | | |
| 46 | C.E. No. 3843.. | 17th Dec. 1897. | Stationmaster's house at Krishnarajapuram. | 806 | 403 | 1,209 | .. | .. | .. | 100 | 100 | 200 | 706 | 303 | 1,009 | .. | |
| | | | Bangalore Cantonment. | | | | | | | | | | | | | | |
| 47 | C.E. No. 2021. | 17th June 1897. | New engine turn-table 50 feet diameter in lieu of the existing one 40 feet diameter at Bangalore Cantonment. | 781 | 1,883 | 2,664 | .. | .. | .. | 781 | 1,883 | 2,664 | .. | .. | .. | .. | |
| | M.O.M. .. | 25th Mar. 1898. | | | | | | | | | | | | | | | |

## Budget Estimate of Minor Works of the orks o

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | Rs. | Rs. | Rs. |
| | | | *Stations and Buildings*—cont. | | | |
| | | | Bangalore City. | | | |
| 48 | C.E. No. 1257 .<br>M.O.M. ..<br>C.E. No. 183 ..<br>M.O.M. .. | 21st April 1896.<br>2nd Dec. ,,<br>19th Jan. 1898.<br>29th April ,, | Constructing twelve huts for the Police force of the Civil and Military stations on the Bangalore Branch. | 3,188 | 1,341 | 4,529 |
| 49 | C.E. No. 24 ..<br>M.O.M. ..<br>M.O.M. .. | 6th Jan. 1897.<br>29th Oct. ,,<br>29th April 1898. | Police station at Bangalore City .. | 1,262 | 821 | 2,083 |
| 50 | C.E. No. 2244..<br>M.O.M. | 8th July 1897.<br>28th Jan 1898. | Store room for Carriage Examiner at Bangalore City. | 819 | 360 | 1,179 |
| 51 | C.E. No. 680 ..<br>M.O.M. ..<br>M.O.M. ..<br>M.O.M. .. | 28th Feb. 1896.<br>30th Sept. ,,<br>29th Sept. 1897.<br>28th Jan. 1898. | Watering arrangements at 204/2 miles south-west line. | 1,045 | 113 | 1,158 |
| | | | Podanur. | | | |
| | E. No.<br>O.M. 3868.<br>M.<br>M. .. | 18th Dec. 1897. | Double bungalow for family guards at Podanur. | 3,045 | 1,572 | 4,617 |
| | | | Olavakkot. | | | |
| 52 | C.E. No. 036 ..<br>M.O. | d Apr 1897.<br>h ,, 1898.<br>th Jan. 1896.<br>th June 1897.<br>h Feb. 1898. | Proposed 30-ton weigh-bridge in lieu of the existing one at Olavakkot<br>Alterations and additions of sidings, &c. at west end of station at Olavakkot. | .. | 1,120 | 1,120 |
| 53 | C.E. No. 1386.<br>M.O.M. .. | 23<br>29t | | 1,623 | 3,138 | 4,761 |
| 54 | G.O. No. 10 R.<br>M.O.M. ..<br>M.O.M. | 9<br>9<br>7th Dec. 1896.<br>29th Sept. 1897. | Palghat.<br>Substitution of brick for matwalls for station house and latrine at Palghat. | 1,410 | 70 | 1,480 |
| | | | Mettupaliyam. | | | |
| 55 | C.E. No. 2347.<br>M.O.M. | 17th Dec. 1897. | House for Carriage Examiner at Mettupaliyam. | 642 | 525 | 1,167 |
| 56 | C.E. N | | Tiruttani. | | | |
| | E. No. 3265..<br>M.O.M. ..<br>M.O.M. .. | 16th Oct. 1895.<br>27th Mar. 1896<br>29th Sept. 1897. | Train-protecting bars at Tiruttani .. | 142 | 1,017 | 1,159 |
| | | | Puttúr. | | | |
| 58 | C.E. No. 98 ..<br>C.E. No. 3170..<br>M.O.M. ..<br>M.O.M. .. | 11th Jan. 1894.<br>7th Oct. 1896.<br>5th Aug. 1897.<br>29th Oct. ,, | Interlocking points and signals at Puttúr. | 785 | 3,596 | 4,381 |
| | | | Renigunta. | | | |
| 59 | C.E. No. 3422..<br>M.O.M. | 6th Nov. 1897.<br>29th April 1898. | Thirty-ton weigh-bridge in lieu of the existing 18½ ton weigh-bridge at Renigunta. | 222 | 1,095 | 1,317 |
| | | | Cuddapah. | | | |
| 60 | C.E. No. 3696..<br>M.O.M. | 21st Nov. 1896.<br>25th Feb. 1898. | Ash pit and water column at Cuddapah .. | 646 | 1,594 | 2,240 |
| 61 | C.E. No. 435 ..<br>M.O.M. | 5th ,, 1897.<br>29th Oct. ,, | Thirty-ton weigh-bridge in lieu of the existing 18½-ton weigh-bridge at Cuddapah. | 31 | 1,195 | 1,226 |
| | | | Kamalapuram. | | | |
| 62 | C.E. No. 3267 .. | 20th Oct. 1897. | Extension of platform and diversion of road at Kamalapuram. | 803 | 803 | 1,606 |
| 63 | C.E. No. 1885..<br>M.O.M. ..<br>M.O.M. | 5th June ,,<br>29th Oct. ,,<br>25th Mar. 1898. | Proposed method of raising tank at Kamalapuram. | 1,118 | 561 | 1,679 |



Madras Railway for the official year 1898-99—*cont.*

| Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897-98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898-99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| 3,163 | 1,201 | 4,364 | 25 | 122 | 147 | .. | .. | .. | .. | |
| .. | 194 | 194 | 1,167 | 621 | 1788 | .. | .. | .. | .. | |
| .. | .. | .. | 819 | 360 | 1,179 | .. | .. | .. | .. | |
| 1,041 | 109 | 1,150 | .. | Cr. 67 | Cr. 67 | .. | .. | .. | .. | |
| .. | .. | .. | 1,000 | 572 | 1,572 | 2,045 | 1,000 | 3,045 | .. | |
| .. | .. | .. | .. | 919 | 919 | .. | .. | .. | .. | |
| 329 | 236 | 565 | 303 | 2,901 | 3,204 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| 502 | 35 | 537 | 908 | 35 | 943 | .. | .. | .. | .. | |
| .. | .. | .. | 100 | 100 | 200 | 542 | 425 | 967 | .. | |
| 48 | 189 | 237 | 94 | 37 | 131 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| 599 | 2,828 | 3,427 | 186 | 768 | 954 | .. | .. | .. | .. | Do. |
| .. | .. | .. | 221 | 987 | 1,208 | .. | .. | .. | .. | Do. |
| 155 | 210 | 365 | 421 | 1,336 | 1,757 | .. | .. | .. | .. | |
| .. | 7 | 7 | .. | 713 | 713 | .. | .. | .. | .. | |
| .. | .. | .. | 200 | 400 | 600 | 603 | 403 | 1,006 | .. | |
| .. | .. | .. | 1,118 | 561 | 1,679 | .. | .. | .. | .. | |

## Budget Estimate of Minor Works of the Madras Railway for the official year 1898-99—*cont.*

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | Rs. | Rs. | Rs. |
| | | | *Stations and Buildings*—cont. | | | |
| | | | Mangapatnam. | | | |
| 64 | C.E. No. 1241 .. M.O.M. M.O.M. M.O.M. | 3rd April 1897 29th Oct. ,, 25th Mar. 1898. 29th April ,, | Block cabin and Booking office, at Mangapatnam. | 920 | 257 | 1,177 |
| 65 | C.E. No. 1957 .. M.O.M. | 11th June 1897. 28th Jan. 1898. | Two houses for Stationmaster and Assistant Stationmaster and three houses for Porters at Mangapatnam. | 2,011 | 1,006 | 3,017 |
| | | | Kondapuram. | | | |
| 66 | C.E. No. 1728.. M.O.M. | 21st May 1897. 28th Jan. 1898. | Proposed extension of platform, &c., at Kondapuram. | 692 | 335 | 1,027 |
| | | | Gooty. | | | |
| 67 | C.E.No. 408 .. | 10th Feb. 1898. | Proposed refreshment room, &c., at Gooty. | 698 | 928 | 1,626 |
| | | | Guntakul. | | | |
| 68 | C.E. No. 428 .. | 12th Feb. 1898 | Engineering subordinate's quarters at Guntakul. | 1,076 | 428 | 1,504 |
| | | | Raichur. | | | |
| 69 | C.E. No. 473 .. | 16th Feb. 1898. | Siding required by Messrs. Best and Co. at Raichur. | 150 | 1,097 | 1,247 |
| 70 | C.E. No. 1295 .. M.O.M. | 8th April 1897. 28th Jan. 1898. | Fitting of Annet's locks to facing points North-west and South-west lines. | 989 | 731 | 1,720 |
| | | | Electric Telegraph. | | | |
| 71 | C.E. No. 4107.. M.OM.. | 22nd Dec. 1896. 25th Mar. 1898. | Telephone circuit with two wires between Central station, Veyasarpaudy and Washermanpet Block houses, also two additional telephones, one for Ráyapuram Block house and one for Washermanpet. | 229 | 1,242 | 1,471 |
| | | | Total, Engineering Department, carried to Schedule A. | 74,439 | 75,756 | 1,50,195 |
| | | | UNSANCTIONED WORKS. | | | |
| | | | ENGINEERING DEPARTMENT. | | | |
| | | | *Bridge Work.* | | | |
| 1 | .. | .. | Strengthening girders at 248/9 miles, North-west line. | 1,910 | 425 | 2,335 |
| 2 | .. | .. | Strengthening girders at 248/15 miles, North-west line. | 955 | 212 | 1,167 |
| 3 | .. | .. | Strengthening girders at 263/3 miles, North-west line. | 1,766 | 425 | 2,191 |
| | | | *Stations and Buildings.* | | | |
| | | | Central Station. | | | |
| 4 | .. | .. | Proposed reading-room at Central Station. | 2,427 | 1,920 | 4,347 |
| | | | Arkónam. | | | |
| 5 | .. | .. | Proposed wall for timber yard at Arkónam. | 3,200 | .. | 3,200 |
| 6 | .. | .. | Travelling auditors' bungalow at Arkónam. | 2,516 | 1,944 | 4,460 |
| | | | Mailpatti. | | | |
| 7 | .. | .. | Deepening and enlarging well and providing a hand pump at Mailpatti. | 1,455 | 780 | 2,235 |
| | | | Bowringpet. | | | |
| 8 | .. | .. | Roof over goods platform at Bowringpet. | 745 | 1,154 | 1,899 |
| | | | Mullapuram. | | | |
| 9 | .. | .. | Catch siding at Mullapuram .. .. | 3,900 | 900 | 4,800 |



Madras Railway for the official year 1898-99—*cont.*

| Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897-98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898-99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | 919 | 237 | 1,156 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| .. | .. | .. | 1,511 | 500 | 2,011 | 500 | 506 | 1,006 | .. | |
| .. | .. | .. | 692 | 335 | 1,027 | .. | .. | .. | .. | |
| .. | .. | .. | .. | .. | .. | 698 | 928 | 1,626 | .. | |
| .. | .. | .. | .. | .. | .. | 1,076 | 428 | 1,504 | .. | |
| .. | .. | .. | .. | .. | .. | 150 | 1,097 | 1,247 | .. | |
| .. | .. | .. | .. | .. | .. | 989 | 731 | 1,720 | .. | |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 110 | 117 | 227 | .. | 409 | 409 | .. | .. | .. | .. | |
| 10,282 | 9,202 | 19,484 | 41,434 | 34,979 | 76,413 | 29,882 | 30,388 | 60,270 | .. | |
| | | | | | | 1,910 | 425 | 2,335 | .. | |
| .. | .. | .. | .. | .. | .. | 955 | 212 | 1,167 | .. | |
| .. | .. | .. | .. | .. | .. | 1,766 | 425 | 2,191 | .. | |
| .. | .. | .. | .. | .. | .. | 2,427 | 1,920 | 4,347 | .. | |
| .. | .. | .. | .. | .. | .. | 3,200 | .. | 3,200 | .. | |
| .. | .. | .. | .. | .. | .. | 2,516 | 1,944 | 4,460 | .. | |
| .. | .. | .. | .. | .. | .. | 1,455 | 780 | 2,235 | .. | |
| .. | .. | .. | .. | .. | .. | 745 | 1,154 | 1,899 | .. | |
| .. | .. | .. | .. | .. | .. | 3,900 | 900 | 4,800 | .. | |

## Budget Estimate of Minor Works of the

| Number of items. | Sanctions. | | Particulars. | Amount of estimate. | | |
|---|---|---|---|---|---|---|
| | Number. | Date. | | Cash outlay in India. | Value of stores. | Total expenditure. |
| | | | ENGINEERING DEPARTMENT—*cont.* | | | |
| | | | *Stations and Buildings*—cont. | Rs. | Rs. | Rs. |
| | | | Cauvery. | | | |
| 10 | .. | .. | House for Assistant Stationmaster at Cauvery. | 630 | 407 | 1,037 |
| | | | Tirupur. | | | |
| 11 | .. | .. | House for Stationmaster and Assistant Stationmaster at Tirupur. | 1,112 | 959 | 2,071 |
| | | | Méttupálaiyam. | | | |
| 12 | .. | .. | Alteration of Native latrine and platform at Méttupálaiyam. | 503 | 525 | 1,028 |
| | | | Rénigunta. | | | |
| 13 | .. | .. | Watering arrangements to be improved at Thocock. | 3,052 | .. | 3,052 |
| | | | Nandalur. | | | |
| 14 | .. | .. | Carriage Examiner's house at Nandalur .. | 1,767 | 826 | 2,593 |
| 15 | .. | .. | Two houses for signallers at Nandalur .. | 2,614 | 1,267 | 3,881 |
| | | | Timmencherla. | | | |
| 16 | .. | .. | Goods siding to be connected with main line on the north side of the yard at Timmencherla. | 952 | 2,775 | 3,727 |
| | | | Adóni. | | | |
| 17 | .. | .. | Alterations and additions to sidings at Adóni. | 167 | 1,192 | 1,359 |
| | | | Raichur. | | | |
| 18 | .. | .. | House for inter-communication maistry and two train men. | 882 | 373 | 1,255 |
| | | | Miscellaneous. | | | |
| 19 | .. | .. | Two trial stations .. .. .. .. | 1,100 | .. | 1,100 |
| | | | Electric Telegraph. | | | |
| 20 | .. | .. | Fixing lightning-conductors to the buildings at Bangalore City. | 500 | 1,000 | 1,500 |
| | | | Total, Engineering Department, carried to Schedule B. | 32,153 | 17,084 | 49,237 |

## LINES IN COURSE

## Budget Estimate of the extension

| Item number. | Sanctions. | | Particulars. | Amount of estimate. | | |
|---|---|---|---|---|---|---|
| | Number. | Date. | | Cash outlay in India. | Value of stores. | Total expenditure. |
| 1 | Provisional sanction of Secretary of State communicated in Government of India, No. 1781 R.C. | 27th October 1897. | Calicut-Cannanore extension .. | Rs. .. | Rs. .. | Rs. 73,75,000 |
| | (Madras Government Order, No. 984 R.) | 15th November 1897. | | | | |
| 2 | Secretary of State, No. 118 Ry., communicated in Government of India. | 19th December 1897. | Arcot-Ranipet branch .. .. | .. | .. | 2,98,0 |
| | No. 32 R.C. | 8th January 1898. | | | | |
| | (Madras Government Order No. 115 R.) | 21st January 1898. | | | | |
| | | | Total .. | .. | .. | 76,73,000 |



Madras Railway for the official year 1898–99—*cont.*

| Actual expenditure up to close of official year 1896-97. | | | Probable expenditure during 1897–98. | | | Budget estimate of expenditure for official year 1898–99. | | | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Cash outlay in India. | Value of stores. | Total. | Cash outlay in India. | Value of stores. | Total. | Cash outlay in India. | Value of stores. | Total. | | |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | | |
| .. | .. | .. | .. | .. | .. | 630 | 407 | 1,037 | .. | |
| .. | .. | .. | .. | .. | .. | 1,112 | 959 | 2,071 | .. | |
| .. | .. | .. | .. | .. | .. | 503 | 525 | 1,028 | .. | |
| .. | .. | .. | .. | .. | .. | 3,052 | .. | 3,052 | .. | |
| .. | .. | .. | .. | .. | .. | 1,767 | 826 | 2,593 | .. | |
| .. | .. | .. | .. | .. | .. | 2,614 | 1,267 | 3,881 | .. | |
| .. | .. | .. | .. | .. | .. | 952 | 2,775 | 3,727 | .. | |
| .. | .. | .. | .. | .. | .. | 167 | 1,192 | 1,359 | .. | |
| .. | .. | .. | .. | .. | .. | 882 | 373 | 1,255 | .. | |
| .. | .. | .. | .. | .. | .. | 1,100 | .. | 1,100 | .. | |
| .. | .. | .. | .. | .. | .. | 500 | 1,000 | 1,500 | .. | |
| .. | .. | .. | .. | .. | .. | 32,153 | 17,084 | 49,237 | .. | |

OF CONSTRUCTION.

of the Madras Railway for the official year 1898–99.

| Actuals, 1896–97. | | | Revised estimate. | | | Budget estimate, 1898–99. | | |
|---|---|---|---|---|---|---|---|---|
| Cash outlay in India. | Value of stores. | Total. | Cash outlay in India. | Value of stores. | Total. | Cash outlay in India. | Value of stores. | Total. |
| Rs. .. | Rs. .. | Rs. .. | Rs. 1,36,000 | Rs. 13,000 | Rs. 1,49,000 | Rs. 24,92,451 | Rs. 8,64,000 | Rs. 33,56,451 |
| .. | .. | .. | 14,000 | .. | 14,000 | 1,57,549 | 74,000 | 2,31,549 |
| .. | .. | .. | 1,50,000 | 13,000 | 1,63,000 | 26,50,000 | 9,38,000 | 35,88,000 |

SCHEDULE D OR CONSTRUCTION WORKS—PART IV.

BUDGET ESTIMATE of EMERGENT WORKS of the MADRAS RAILWAY for the official year 1898–99—*Nil.*

REVISED and BUDGET ESTIMATES of STORES TRANSACTIONS on the MADRAS RAILWAY for 1897–98 and 1898–99.

MEMORANDUM.

The budget estimates contemplates a total expenditure of Rs. 47,38,512 as under—

| | | |
|---|---|---|
| Cash outlay on stores ... ... ... ... ... | | |
| Expenditure in England including exchange ... ... | Rs. | 20,12,148 |
| | „ | 27,26,364 |
| | „ | 47,38,512 |
| And is provided for as follows:— | | |
| Credits for stores issues to Capital works ... | Rs. | 21,36,141 |
| Credits for stores issues to Revenue... ... Transfers and sales ... ... ... ... | „ | 25,00,000 |
| | „ | 46,36,141 |
| Balance being Net Capital Grant required ... | „ | 1,02,371 |

## MADRAS RAILWAY.

DETAILS OF THE ESTIMATED TRANSACTIONS UNDER THE HEAD "STORES."
Revised estimate for 1897–98 and Budget estimate 1898–99.

| *Particulars of Debits.* | | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|
| Balance at commencement of the year ... | Rs. | 26,94,077 | 21,96,034 |
| Debits during the year— | | | |
| Local purchases— | | | |
| Firewood ... ... ... ... ... | „ | 4,54,872 | 4,52,000 |
| Oil of sorts ... ... ... ... ... | „ | 1,38,000 | 1,32,600 |
| Cotton waste, &c. ... ... ... ... | „ | 6,840 | 7,000 |
| Coal, Indian ... ... ... ... ... | „ | 4,65,700 | 4,86,000 |
| Coke do. ... ... ... ... ... | „ | ... | ... |
| Wooden sleepers ... ... ... ... | „ | 25,000 | 18,000 |
| Wooden keys ... ... ... ... ... | „ | 15,000 | 25,000 |
| Timber of all kinds ... ... ... ... | „ | 1,73,500 | 15,000 |
| Materials for tarpaulins ... ... ... | „ | 4,000 | 2,30,500 |
| Freight and landing charges ... ... | „ | 50,000 | 3,000 |
| Printing and stationery ... ... ... | „ | 70,000 | 50,000 |
| Hardware (iron, steel, files, screws, &c.) ... | „ | 25,000 | 70,000 |
| Miscellaneous stores ... ... ... | „ | 1,50,000 | 25,000 |
| Total ... | „ | 15,77,912 | 2,48,048 |
| | | | 17,62,148 |
| London stores— | | | |
| (For Revenue and Capital)— | | | |
| Coke ... ... ... ... ... | „ | 15,000 | |
| Tyre, engine and tender ... ... ... | „ | 13,890 | 12,000 |
| Axles, do. ... ... ... ... | „ | 14,800 | 15,000 |
| Wheels and axles, carriage ... ... ... | „ | ... | 7,000 |
| Machinery and tools ... ... ... ... | „ | 20,788 | 95,200 |
| Iron and steel ... ... ... ... ... | „ | 4,820 | 18,445 |
| Copper and brass ... ... ... ... ... | „ | 47,601 | 15,000 |
| Materials for construction and renewals of rolling stock ... ... ... ... | „ | 76,294 | 40,000 |
| Automatic vacuum brake gear ... ... ... | „ | 57,992 | 2,87,555 |
| Gas plant and fittings ... ... ... ... | „ | 40,302 | 55,000 |
| Locomotive engines ... ... ... ... | „ | ... | 46,000 |
| Bridge materials ... ... ... ... ... | „ | 5,200 | 2,06,000 |
| Permanent-way materials, &c. ... ... ... | „ | 3,52,800 | 1,98,796 |
| Materials for tarpaulins ... ... ... ... | „ | 2,000 | 13,89,204 |
| Telegraph stores ... ... ... ... ... | „ | 16,165 | 7,000 |
| Sundry stores ... ... ... ... ... | „ | 56,712 | 4,985 |
| Total ... | „ | 7,24,364 | 3,29,179 |
| | „ | | 27,26,364 |



| *Particulars of Debits*—cont. | | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|
| Manufactures— | | | |
| Workshop manufactures— | | | |
| Works in progress ... ... ... ... | Rs. | 1,60,000 | 2,50,000 |
| New works ... ... ... ... ... | | | |
| Total debits during the year ... | „ | 24,62,276 | 47,38,512 |
| Grand Total ... | „ | 51,56,353 | 69,34,546 |

*Particulars of Credits.*

| | | | |
|---|---|---|---|
| Credits during the year— | | | |
| Issues to Capital Works— | | | |
| Preliminary expenses ... ... ... ... | | | |
| Formation ... ... ... ... ... | | | |
| Bridgework ... ... ... ... ... | | | |
| Fencing ... ... ... ... ... | | | |
| Ballast and permanent-way ... ... ... | Rs. | 4,60,319 | 21,36,141 |
| Stations and buildings ... ... ... | | | |
| Plant ... ... ... ... ... ... | | | |
| Ferries, &c. ... ... ... ... ... | | | |
| Rolling-stock ... ... ... ... ... | | | |
| General charges ... ... ... | | | |
| | „ | 4,60,319 | 21,36,141 |
| Issues to Revenue ... ... ... ... | „ | 25,00,000 | 25,00,000 |
| Transfers and sales ... ... ... ... | | | |
| Total credits during the year ... | „ | 29,60,319 | 46,36,141 |
| Balance expected at the close of the year ... | „ | 21,96,034 | 22,98,405 |
| Grand Total ... | „ | 51,56,353 | 69,34,546 |
| Net debit or credit to stores transactions being capital grant required ... ... ... | „ | **–4,98,043** | 1,02,371 |

APPENDIX A.

STATEMENT showing details of the sum set aside for expenditure in England on the Madras Railway during 1898–99.

| | | | |
|---|---|---|---|
| Probable amount of oustanding indents of the previous year. | (*a*) | Rs. | 7,93,121 |
| Probable amount of indents to be sent home for compliance during the year ... ... ... ... ... ... | (*b*) | „ | 39,78,307 |
| Establishment charges, etc., payable in England ... ... | | „ | 1,03,636 |
| | | | 48,75,064 |
| Deduct—Probable amount of outstanding at the close of the year ... ... ... ... ... ... ... ... | (*c*) | „ | 20,45,064 |
| Estimated net capital outlay in England ... | (*d*) | „ | 28,30,000 |

(*a*) Includes Rs. 57,095 on account of extensions.
(*b*) Do. „ 23,25,969 do.
(*c*) Do. „ 14,45,064 do.
(*d*) Do. „ 9,38,000 do.

## Schedule F.

### Estimate of Traffic Receipts of the Madras Railway, 1898–99.

| | |
|---|---|
| Number of miles open for traffic on 1st April 1897 ... ... ... ... | 840 |
| Expected to be opened during 1897–98 ... ... ... ... ... | ... |
| Total on 1st April 1898 ... | 840 |
| Expected to be opened during 1898–99 ... ... ... ... ... | ... |
| Total likely to be opened at end of 1898–99 ... ... ... ... | 840 |
| Average number of miles expected to be opened during the whole of 1898–99 ... ... ... ... ... ... ... ... | 840 |

| — | Actuals in 1896–97. | Sanctioned budget estimate, 1897–98. | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Rs. |
| Coaching traffic ... ... ... | 45,46,792 | 46,00,000 | 46,00,000 | 46,00,000 |
| Goods do. ... ... ... | 62,66,154 | 61,20,000 | 66,00,000 | 62,00,000 |
| Electric Telegraph earnings... ... | 20,194 | 20,000 | 20,000 | 20,000 |
| Sundries ... ... ... ... | 1,92,687 | 1,60,000 | 1,80,000 | 1,80,000 |
| Total ... | 1,10,25,827 | 1,09,00,000 | 1,14,00,000 | 1,10,00,000 |
| Train mileage ... ... ... | 2,487,064 | 2,500,000 | 2,500,000 | 2,500,000 |



## Schedule G.

### Estimate of Revenue Expenditure on the Madras Railway for the official year 1898–99.

| — | Actuals in 1896–97. | Sanctioned budget estimate, 1897–98. | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Rs. |
| *Maintenance of Way, Works and Stations.* | | | | |
| 1. General superintendence ... ... ... | 2,51,880 | 2,50,000 | 2,55,000 | 2,50,000 |
| 2. Maintenance and renewal of permanent-way ... ... ... ... ... | 5,33,835 | 5,00,000 | 5,10,000 | 5,00,000 |
| 3. Repairs of bridges, wages and materials ... | 1,14,988 | 2,00,000 | 1,80,000 | 1,95,000 |
| 3-A. Conservancy of rivers ... ... ... | ... | ... | ... | ... |
| 4. Repairs of stations and buildings, wages and materials ... ... ... ... ... | 1,59,571 | 1,70,000 | 1,60,000 | 1,60,000 |
| 5. Maintenance by contract ... ... ... | ... | ... | ... | ... |
| 6. New minor works ... ... ... ... | 15,557 | 25,000 | 20,000 | 20,000 |
| 7. Unclassified expenditure ... ... ... | 1,94,869 | 2,03,600 | 2,00,000 | 2,00,000 |
| Total ... | 12,70,700 | 13,48,600 | 13,25,000 | 13,25,000 |
| Cost of working Kolar Gold Fields Railway ... ... ... ... | 22,109 | 17,500 | 25,000 | 25,000 |
| Total ... | 12,48,591 | 13,31,100 | 13,00,000 | 13,00,000 |
| *Locomotive Expenses.* | | | | |
| 1. General superintendence ... ... ... | 1,37,705 | 1,41,500 | 1,36,120 | 1,39,000 |
| 2. Running expenses (wages connected with the working of locomotive engine) ... | 3,49,140 | 3,50,000 | 3,54,900 | 3,50,000 |
| 3. Fuel ... ... ... ... ... ... | 8,74,879 | 8,65,000 | 9,05,180 | 8,80,000 |
| 4. Water (including wages and stores) ... | 30,921 | 35,000 | 37,700 | 35,000 |
| 5. Oil, tallow and other stores, &c. (expended on engines in work) ... ... ... | 47,185 | 46,800 | 49,890 | 48,000 |
| 6. Maintenance and renewals of locomotive engines ... ... ... ... ... | 5,09,223 | 5,10,000 | 5,34,520 | 5,23,000 |
| 6-A. Maintenance and renewals of machinery, tools and plant ... ... ... | 15,175 | 14,000 | 15,360 | 15,000 |
| 7. New minor works ... ... ... ... | ... | 3,000 | 1,750 | 3,000 |
| 8. Payments to other lines ... ... ... | ... | ... | ... | ... |
| 9. Unclassified expenditure ... ... ... | 1,67,275 | 1,64,500 | 1,76,610 | 1,60,000 |
| Total ... | 21,31,503 | 21,29,800 | 22,12,030 | 21,53,000 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... | 31,206 | 30,300 | 38,570 | 40,000 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 11,880 | 12,100 | 13,460 | 13,000 |
| Total ... | 20,88,417 | 20,87,400 | 21,60,000 | 21,00,000 |

Estimate of Revenue Expenditure on the Madras Railway for the official year 1898-99—*cont.*

| — | Actuals in 1896-97. | Sanctioned budget estimate, 1897-98. | Revised estimate, 1897-98. | Budget estimate, 1898-99. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Rs. |
| *Carriage and Wagon Expenses.* | | | | |
| 1. General superintendence ... ... ... | 39,407 | 41,800 | 42,000 | 41,500 |
| 2. Repairs and renewals of vehicles ... ... | 4,91,187 | 4,74,260 | 4,48,500 | 4,12,000 |
| 2-A. Do. do. of machinery, tools and plant ... ... ... ... ... | 12,168 | 9,800 | 12,000 | 10,000 |
| 3. Cleaning carriages and wagons and oiling. | 63,262 | 64,000 | 68,500 | 58,000 |
| 4. New minor works ... ... ... ... | ... | ... | ... | ... |
| 5. Unclassified expenditure ... ... ... | 60,201 | 60,000 | 55,000 | 42,000 |
| Total ... | 6,66,225 | 6,49,860 | 6,26,000 | 5,63,500 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 599 | ... | ... | ... |
| | 6,65,626 | 6,49,860 | 6,26,000 | 5,63,500 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... | 9,118 | 8,570 | 12,000 | 10,000 |
| | 6,56,508 | 6,41,290 | 6,14,000 | 5,53,500 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 3,479 | 3,390 | 4,000 | 3,500 |
| Total ... | 6,53,029 | 6,37,900 | 6,10,000 | 5,50,000 |
| *Traffic Expenses.* | | | | |
| 1. Salaries and wages ... ... ... | 6,38,333 | 6,38,200 | 6,62,000 | 6,63,000 |
| 2. Fuel, lighting, water and general stores ... | 1,05,128 | 90,000 | 1,00,000 | 80,000 |
| 3. Clothing ... ... ... ... ... | 11,157 | 13,000 | 13,000 | 13,000 |
| 4. Printing, stationery and tickets ... ... | 70,453 | 72,000 | 76,000 | 72,000 |
| 5. Charges for delivery and collection of goods, &c. ... ... ... ... | 2,394 | 2,500 | 2,500 | 2,500 |
| 6. Miscellaneous expenses ... ... ... | 4,306 | 5,500 | 5,500 | 5,500 |
| 7. Payments to other lines ... ... ... | 23,210 | 15,000 | 21,000 | 15,000 |
| 8. Unclassified expenditure ... ... ... | 14,583 | 18,000 | 18,000 | 17,000 |
| Total ... | 8,69,564 | 8,54,200 | 8,98,000 | 8,68,000 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 239 | ... | 200 | 200 |
| | 8,69,325 | 8,54,200 | 8,97,800 | 8,67,800 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... | 12,284 | 11,920 | 13,000 | 13,000 |
| | 8,57,041 | 8,42,280 | 8,84,800 | 8,54,800 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 4,837 | 4,780 | 4,800 | 4,800 |
| Total ... | 8,52,204 | 8,37,500 | 8,80,000 | 8,50,000 |
| *General Charges.* | | | | |
| 1. Home expenditure ... ... ... ... | 72,226 | 75,000 | 80,500 | 75,000 |
| 2. Salaries of Indian management including offices ... ... ... ... ... | 2,83,494 | 2,88,000 | 3,14,380 | 2,90,000 |
| 3. Police ... ... ... ... ... | 38,368 | 38,000 | 39,000 | 38,500 |
| 4. Advertising (all advertisements of all departments) ... ... ... ... ... | 5,367 | 6,000 | 7,000 | 5,500 |
| 5. Electric telegraph ... ... ... ... | 1,44,377 | 1,64,700 | 1,69,060 | 1,60,000 |



Estimate of Revenue Expenditure on the Madras Railway for the official year 1898-99—*cont.*

| — | Actuals in 1896-97. | Sanctioned budget estimate, 1897-98. | Revised estimate, 1897-98. | Budget estimate, 1898-99. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Rs. |
| *General Charges*—cont. | | | | |
| 6. Clearing accounts with other lines ... | 54,724 | 55,000 | 60,000 | 54,500 |
| 7. Unclassified expenditure ... ... ... | 5,98,556 | 6,26,700 | 6,69,940 | 6,23,500 |
| Total ... | 7,930 | 6,000 | 6,500 | 5,000 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 5,90,626 | 6,20,700 | 6,63,440 | 6,18,500 |
| | 8,322 | 8,780 | 10,000 | 10,000 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... ... | 5,82,304 | 6,11,920 | 6,53,440 | 6,08,500 |
| | 3,286 | 3,520 | 3,440 | 3,500 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 5,79,018 | 6,08,400 | 6,50,000 | 6,05,000 |
| *Special and Miscellaneous Expenditure.* | | | | |
| 1. Law charges ... ... ... ... ... | 1,579 | 3,000 | 3,000 | 3,000 |
| 2. Compensation ... ... ... ... | 2,079 | 2,500 | 3,500 | 2,000 |
| 3. Rates and taxes (including municipal water-rates) ... ... ... ... ... | 23,560 | 24,500 | 25,500 | 24,000 |
| 4. Payments to other lines ... ... ... | 657 | 6,700 | 7,000 | 6,000 |
| 5. Prizes for station gardens, &c. ... ... | 478 | 1,000 | 1,000 | 1,000 |
| 6. Contribution to Railway Provident Institution ... ... ... ... ... | 41,861 | 42,000 | 42,000 | 42,000 |
| 7. Miscellaneous ... ... ... ... | 18,084 | 20,000 | 20,000 | 19,000 |
| Total ... | 88,298 | 99,700 | 1,02,000 | 97,000 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 446 | ... | ... | ... |
| | 87,852 | 99,700 | 1,02,000 | 97,000 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... ... | 1,225 | 1,400 | 1,400 | 1,400 |
| | 86,627 | 98,300 | 1,00,600 | 95,600 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 488 | 600 | 600 | 600 |
| Total ... | 86,139 | 97,700 | 1,00,000 | 95,000 |

F. DUNSTERVILLE,
Chief Auditor.

L. S. MOSS,
Agent and Manager.

MADRAS,
2nd May 1898.

FINAL ISSUE.

# BUDGET ESTIMATE

OF THE

# MADRAS RAILWAY

FOR THE YEAR

1898-99.

# CAPITAL ACCOUNT.

ABSTRACT of the ESTIMATED CASH EXPENDITURE on the MADRAS RAILWAY for the official year 1898–99.

| Particulars. | Actuals for 1896–97. | Budget estimate for 1897–98. | Revised estimate for 1897–98. | Budget estimate for 1898–99. |
|---|---|---|---|---|
| INDIAN. | | | | |
| CAPITAL OUTLAY. | | | | |
| *Engineering Department.* | | | | |
| Sanctioned works as per schedule A | | 1,36,752 | 1,74,718 | 1,56,613 |
| Works to be sanctioned do. B ... ... | | 3,73,074 | ... | 3,18,434 |
| Emergent works do. D ... ... | | ... | ... | .. |
| *Locomotive Department.* | | | | |
| Sanctioned works as per schedule A | | | | |
| Works to be sanctioned do. B ... ... | 1,59,144 | 2,028 | 9,904 | 5,451 |
| *Carriage and Wagon Department.* | | 4,296 | ... | 300 |
| Sanctioned works as per schedule A | | | | |
| Works to be sanctioned do. B ... ... | | 21,380 | 22,466 | 94,152 |
| Outlay on extensions ... ... ... ... | | 61,963 | | 82,900 |
| *General.* | | | | |
| Establishment ... ... ... ... | ... | ... | 1,50,000 | 26,50,000 |
| Stores as per schedule E ... ... ... | .. | | | |
| Miscellaneous ... ... ... ... | 20,62,095 | ... | ... | |
| Suspense miscellaneous ... ... ... | 3,235 | 18,97,507 | 17,37,912 | 20,12,148 |
| Increase or decrease of balance of Capital | 18,758 | 5,000 | 5,000 | 5,000 |
| Advance Account ... ... ... ... | 9,400 | 2,20,000 | 1,50,000 | 1,50,000 |
| Total, Withdrawals on Capital Account ... | 22,52,632 | ... | ... | ... |
| *Receipts to be credited to Capital Account.* | | 27,25,000 | 22,50,000 | 54,75,000 |
| Share capital paid in India ... ... ... | ... | | | |
| Refunds for stores sold to Revenue, &c. ... | 24,62,045 | 25,00,000 | 25,00,000 | 25,00,000 |
| Other refunds— | | | | |
| Home expenditure, &c. ... ... ... | 1,21,165 | 2,00,000 | 3,00,000 | 3,00,000 |
| Total, Payments on Capital Account ... | 25,83,210 | 27,00,000 | 28,00,000 | 28,00,000 |
| Net cash demand in India on Capital Account ... | **3,30,578** | 25,000 | **5,50,000** | 26,75,000 |
| ENGLAND. | | | | |
| Probable amount of outstanding indents of the previous year ... ... ... ... | ... | 3,52,023 | 4,09,000 | 7,93,121 |
| Probable amount of indents to be sent home for compliance during the year ... ... ... | ... | 9,38,000 | 11,08,485 | 39,78,307 |
| Total ... | ... | 12,90,023 | 15,17,485 | 47,71,428 |
| Deduct probable amount of outstanding indents at the close of the year ... | ... | 2,07,205 | 7,93,121 | 20,45,064 |
| Total, Outlay for Stores ... | 7,31,524 | 10,82,818 | 7,24,364 | 27,26,364 |
| *Home Expenditure and Payments.* | | | | |
| Home expenditure ... ... ... | | 79,636 | 81,818 | 81,818 |
| Furlough and sick leave allowances ... ... | 84,833 | 4,364 | 8,727 | 10,909 |
| Family and sundry payments less receipts ... | | 26,182 | 13,091 | 10,909 |
| Total, Home Expenditure and Payments ... | 84,833 | 1,10,182 | 1,03,636 | 1,03,636 |
| Total, Cash Demand in England ... | 8,16,357 | 11,93,000 | 8,28,000 | 28,30,000 |



# REVENUE ACCOUNT.

ABSTRACT of ESTIMATED REVENUE RECEIPTS and EXPENDITURE of the MADRAS RAILWAY for the official year 1898–99.

| Particulars. | Actuals for 1896–97. | Budget estimate for 1897–98. | Revised estimate for 1897–98. | Budget estimate for 1898–99. |
|---|---|---|---|---|
| RECEIPTS AS PER SCHEDULE F. | RS. | RS. | RS. | RS. |
| Coaching traffic ... ... ... ... | 45,46,792 | 46,00,000 | 46,00,000 | 46,00,000 |
| Goods do. ... ... ... ... | 62,66,154 | 61,20,000 | 66,00,000 | 62,00,000 |
| Electric Telegraph earnings ... ... ... | 20,194 | 20,000 | 20,000 | 20,000 |
| Sundries ... ... ... ... ... | 1,92,687 | 1,60,000 | 1,80,000 | 1,80,000 |
| Total (1) ... | 1,10,25,827 | 1,09,00,000 | 1,14,00,000 | 1,10,00,000 |
| Receipts on account of traffic appertaining to other lines ... ... ... ... ... | 15,64,749 | 16,00,000 | 16,00,000 | 16,00,000 |
| Receipts from Capital Account other than traffic earnings ... ... ... ... | | | | |
| Receipts from foreign lines other than traffic earnings ... ... ... ... ... | | | | |
| Other abnormal receipts in detail or as per schedule attached ... ... ... ... | ... | ... | ... | ... |
| Total, Payments into Treasury on Revenue Account (2) ... | 1,25,90,576 | 1,25,00,000 | 1,30,00,000 | 1,26,00,000 |
| EXPENDITURE AS PER SCHEDULE G. | | | | |
| Maintenance of way, works and stations ... | 12,18,591 | 13,31,100 | 13,00,000 | 13,00,000 |
| Locomotive expenses ... ... ... ... | 20,88,417 | 20,87,400 | 21,60,000 | 21,00,000 |
| Carriage and wagon expenses ... ... ... | 6,53,029 | 6,37,900 | 6,10,000 | 5,50,000 |
| Traffic expenses ... ... ... ... | 8,52,204 | 8,37,500 | 8,80,000 | 8,50,000 |
| General charges ... ... ... ... | 5,79,018 | 6,08,400 | 6,50,000 | 6,05,000 |
| Special and miscellaneous expenditure ... | 86,139 | 97,700 | 1,00,000 | 95,000 |
| Total (3) ... | 55,07,398 | 56,00,000 | 57,00,000 | 55,00,000 |
| Payments to other lines of their proportion of through traffic, &c. ... ... ... ... | 15,92,501 | 16,00,000 | 16,00,000 | 16,00,000 |
| Payments to Capital Account other than for stores, &c., included in the working expenses in schedule G ... ... ... ... | | | | |
| Other abnormal payments in detail or as per schedule attached ... ... ... ... | ... | ... | ... | ... |
| Total, Withdrawals from Treasury on Revenue Account (4) ... | 70,99,899 | 72,00,000 | 73,00,000 | 71,00,000 |
| Net earnings (1)—(3) ... | 55,18,429 | 53,00,000 | 57,00,000 | 55,00,000 |
| Net receipts (2)—(4) ... | 54,90,677 | 53,00,000 | 57,00,000 | 55,00,000 |
| Surplus profits, Company's share ... | ... | ... | 91,500 | ... |
| Contribution to Provident institution ... ... | ... | ... | 8,500 | ... |

CAPT

SCHEDULE A OR CONSTRUCTION

BUDGET Estimate of Sanctioned Works of the

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT. | RS. | RS. | RS. |
| | | | *Bridgework.* | | | |
| 1 | G.O., No. 132 R. | 17th Feb. 1896. | Converting the 30-feet arch bridge at 168/10 miles, Bangalore branch, into a girder opening. | 5,450 | 2,379 | 7,829 |
| | M.O.M. .. | 29th Oct. 1897. | | | | |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| 2 | G.O., No. 336 R. | 11th May 1897. | Restoration of bridge, &c., at 95/2-3 miles, North-west line. | 7,463 | 209 | 7,672 |
| | M.O.M. .. | 28th Jan. 1898. | | | | |
| 3 | G.O., No. 834 R. | 16th Oct. 1897. | Diversion of the Kodur river at 107/10-11 miles, North-west line. | 19,427 | .. | 19,427 |
| | | | *Stations and Buildings.* | | | |
| | | | Ráyapuram. | | | |
| 4 | G.O., No. 728 R. | 24th Sept. 1897. | Alteration of sidings, &c, at Ráyapuram. | 866 | 4,921 | 5,787 |
| | | | Washermanpet. | | | |
| 5 | G.O., No. 56 R. | 26th Jan. 1897. | Extension of the through siding for the Ennur line at Washermanpet. | 3,187 | 3,348 | 6,535 |
| | M.O.M. .. | 28th „ 1898. | | | | |
| | | | Central Station. | | | |
| 6 | G.O., No. 503 R. | 26th July 1897. | Carriage examining pits at Central station. | 4,484 | 2,051 | 6,535 |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| 7 | G.O., No. 693 R. | 20th Sept. 1897. | Foot over-bridge at Elephant gate level crossing. | 1,728 | 4,672 | 6,400 |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| | | | Perambúr Works. | | | |
| 8 | G.O., No. 564 R. | 16th Aug. 1897. | Bungalow for the use of the First Assistant Locomotive Superintendent at Perambúr. | 8,513 | 1,087 | 9,600 |
| | M.O.M. .. | 29th Oct. „ | | | | |
| 9 | G.I. No. 104 R.C. | 27th Jan. 1896. | Extension of the erecting shed, Foreman's office and tool stores at Perambúr Works. | 20,211 | 17,335 | 37,546 |
| | G.O., No. 117 R. | 13th Feb. „ | | | | |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| 10 | G.O., No. 421 R. | 4th May 1896. | Additional shed for stabling of His Excellency the Governor's saloons at Perambúr Works. | 962 | 4,175 | 5,137 |
| | M.O.M. .. | 29th Sept. 1897. | | | | |
| | M.O.M. .. | 29th Oct. „ | | | | |
| 11 | G.O., No. 1147 R | 16th Dec. „ | Raising boundary wall at Perambúr works. | 4,809 | 950 | 5,759 |
| 12 | G.O., No. 81 R. | 17th Jan. 1898. | Filling up side ditches at 3/13-20 miles south west line. | 5,996 | .. | 5,996 |
| | | | Tiruvallúr. | | | |
| 13 | G.O., No. 434 R. | 13th May 1896. | Alterations and additions to the station-house at Tiruvallúr. | 5,211 | 2,031 | 7,242 |
| | M.O.M. .. | 29th Sept. 1897. | | | | |
| | | | Arkonam. | | | |
| 14 | G.O., No. 513 R. | 1st April 1898. | Converting the existing telegraph workshop and store yards into quarters for weigh-bridge fitter, assistant weigh-bridge fitter and power house for electric lighting at Arkonam. | 3,970 | 1,323 | 5,303 |
| | | | Jálárpet. | | | |
| 15 | G.O., No. 4 R. | 4th Jan. 1897. | Additional water-supply at Jálárpet .. | 6,572 | 4,322 | 10,894 |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| 16 | G.O., No. 23 R. | 9th Jan. 1896. | Converting the Assistant Traffic Manager's bungalow into an Institute at Jálárpet. | 2,502 | 4,605 | 7,107 |
| | M.O.M. .. | 2nd Dec. „ | | | | |
| | M.O.M. .. | 29th Oct. 1897. | | | | |
| | C.E. No. 418. | 11th Feb. 1898. | | | | |
| 17 | G.O., No. 899 R. | 24th Dec. 1895. | Assistant Traffic Manager's bungalow at Jálárpet. | 6,045 | 4,496 | 10,541 |
| | M.O.M. .. | 29th Oct. 1897. | | | | |
| | | | Bowringpet. | | | |
| 18 | C.E. No. 3211. | 12th Oct. 1896. | Proposed foot bridge at Bowringpet .. | 853 | 5,147 | 6,000 |
| | G.O., No. 950 R. | 11th Nov. 1897. | | | | |
| | M.O.M. .. | 3rd Dec. „ | | | | |
| | | | Bisanatham. | | | |
| 19 | G.O., No. 412 R. | 15th Mar. 1898. | Station-house, &c., at Bisanatham .. | 2,533 | 3,529 | 6,062 |



No. 2.

WORKS—PART I.

Madras Railway for the official year 1898–99.

| Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | |
| 391 | 1,212 | 1,603 | 1,059 | 500 | 1,559 | 4,000 | 667 | 4,667 | .. | |
| .. | .. | .. | 11,562 | 209 | 11,771 | .. | .. | .. | .. | Revised estimate sent forward for sanction and sanction for further reallocation will be obtained. |
| .. | .. | .. | 5,000 | .. | 5,000 | 14,427 | .. | 14,427 | .. | |
| .. | .. | .. | 700 | 1,000 | 1,700 | 166 | 3,921 | 4,087 | .. | |
| 490 | .. | 490 | 2,697 | 3,348 | 6,045 | .. | .. | .. | .. | |
| .. | .. | .. | 4,000 | 1,800 | 5,800 | 484 | 251 | 735 | .. | |
| .. | .. | .. | 1,628 | 4,000 | 5,628 | 100 | 672 | 772 | .. | One half of the cost will be borne by the Madras Municipality. |
| 3,779 | 583 | 4,362 | 4,734 | 954 | 5,688 | .. | .. | .. | .. | Sanction for the excess over estimate will be obtained on the completion of the work. |
| 7,533 | 7,982 | 15,515 | 4,000 | 4,000 | 8,000 | 8,678 | 5,353 | 14,031 | .. | |
| 612 | 2,078 | 2,690 | 350 | 700 | 1,050 | .. | .. | .. | .. | The alteration is due to a reallocation which has been approved of but not recorded being under Rs. 500. |
| .. | .. | .. | 100 | 50 | 150 | 4,709 | 900 | 5,609 | .. | |
| .. | .. | .. | .. | .. | .. | 5,996 | .. | 5,996 | .. | |
| 4,139 | 2,468 | 6,607 | 760 | Cr. 438 | 322 | .. | .. | .. | .. | |
| .. | .. | .. | .. | .. | .. | 3,970 | 1,333 | 5,303 | .. | |
| .. | 91 | 91 | 6,000 | 3,300 | 9,300 | 572 | 931 | 1,503 | .. | |
| 271 | 1,653 | 1,924 | 2,231 | 2,952 | 5,183 | .. | .. | .. | .. | |
| 6,045 | 4,668 | 10,713 | .. | Cr. 172 | Cr. 172 | .. | .. | .. | .. | |
| .. | 3,177 | 3,177 | 853 | 1,970 | 2,823 | .. | .. | .. | .. | |
| .. | .. | .. | .. | .. | .. | 2,533 | 3,529 | 6,062 | .. | |

## Budget Estimate of Sanctioned Works o[illegible]e

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | | Rs. | Rs. | Rs. |
| | | | ENGINEERING DEPARTMENT—*cont.* | | | |
| | | | *Stations and Buildings*—cont. | | | |
| | | | Whitefield (Watering Station). | | | |
| 20 | G.O. No. 964 R.<br>M.O.M. ..<br>M.O.M. .. | 14th Nov. 1896.<br>29th Sept. 1897.<br>3rd Dec. ,, | Water from nullah at 203/14 miles, Bangalore branch. | 3,105 | 14,873 | 17,978 |
| | | | Bangalore City. | | | |
| 21 | G.I. No. 94 R.C.<br>G.O. No. 81 R.<br>C.E. No. 3061.<br>M.O.M. ..<br>G.I. No. 1340 R.C.<br>G.I. No. 1831 R.C.<br>G.O., No. 1041 R. | 30th Jan. 1894.<br>6th Feb. ,,<br>30th Sept. 1895.<br>30th ,, 1896.<br>8th ,, ,,<br>4th Dec. ,,<br>14th ,, ,, | Alterations and additions to station-house, platform, &c., at Bangalore City. | 2,19,939 | 1,74,413 | 3,94,352 |
| 22 | C.E. No. 3326.<br>M.O.M. .. | 21st Oct. 1895.<br>26th May 1893. | Purchasing Locomotive Foreman's bungalow at Bangalore City. | 10,000 | .. | 10,000 |
| | | | Mangalam. | | | |
| 23 | G.O. No. 1158 R. | 17th Dec. 1897. | Extension of goods godown and siding at Mangalam. | 1,282 | 5,074 | 6,356 |
| | | | Pódanúr. | | | |
| 24 | G.O. No. 1063 R. | 19th Dec. 1896. | Proposed institute at Pódanúr .. .. | 3,812 | 3,270 | 7,082 |
| | | | Méttupálaiyam. | | | |
| 25 | G.O. No. 2675 R.<br>C.E. No. 1062.<br>M.O.M. ..<br>M.O.M. ..<br>C.E., No. 149 .<br>M.O.M. .. | 11th Nov. 1892.<br>5th Dec. ,,<br>24th Jan. 1896.<br>27th ,, 1897.<br>17th ,, 1898.<br>25th Feb. ,, | Alterations and additions in connection with the junction of the Nilgiri Railway with the Madras Railway at Méttupálaiyam. | 17,591 | 6,955 | 24,546 |
| | | | Kallayi. | | | |
| 26 | G.O., No. 269 R. | 17th Feb. 1898. | Additional dock at Kallayi .. .. | 2,107 | 5,814 | 7,921 |
| | | | Ponpadi. | | | |
| 27 | G.O. No. 416 R. | 25th June 1897. | Station house, &c., at Ponpadi .. .. | 5,362 | 4,095 | 9,457 |
| | | | Nagari. | | | |
| 28 | G.O. No. 522 R.<br>M.O.M. ..<br>M.O.M. ..<br>M.O.M. .. | 15th Aug. 1895.<br>29th Sept. 1897.<br>29th Oct. ,,<br>25th Mar. 1898. | Interlocking points and signals at Nagari. | 830 | 8,462 | 9,292 |
| | | | Nandalúr. | | | |
| 29 | G.I. No. 21 R.C.<br>G.O. No. 46 R.<br>M.O.M.<br>M.O.M. .. | 7th Jan. 1896.<br>15th ,, ,,<br>29th Sept. 1897. | Conversion of Nandalúr into an engine-changing station. | 27,113 | 16,576 | 43,689 |
| 30 | G.O. No. 925 R.<br>M.O.M.<br>M.O.M. .. | 25th Mar. 1898<br>27th Oct. 1896.<br>5th Aug. 1897. | Watering arrangements at Nandalúr .. | 4,299 | 4,867 | 9,166 |
| 31 | G.O. No. 130 R. | 28th Jan. 1898.<br>24th Jan. 1898. | | | | |
| | | | Yerragudipad. | | | |
| 32 | G.O. No. 410 R. | 19th Jan. 1897. | Proposed station-house &c., at Yerragudipad. | 7,834 | 4,176 | 12,010 |
| | | | Kalamala. | | | |
| 33 | G.O. No. 849 R.<br>M.O.M. .. | 8th Oct. 1896.<br>29th ,, 1897. | Proposed station-house at Kalamala .. | 7,121 | 5,387 | 12,508 |
| | | | Gooty. | | | |
| 34 | G.O. No. 48 R. | 23rd Jan. ,, | Double bungalow for European and East Indian drivers at Gooty. | 5,141 | 1,537 | 6,678 |
| 35 | G.O. No. 405 R. | 15th June ,, | Assistant Engineer's bungalow at Gooty. | 6,169 | 4,257 | 10,426 |
| 36 | G.O. No. 754 R.<br>M.O.M. .. | 7th Sept. 1896.<br>26th Aug. 1897. | Locomotive workshops, alteration of locomotive sidings and new 50 feet engine turn-table in lieu of the existing 40 feet one at Gooty. | 1,863 | 6,680 | 8[illegible] |
| | | | Nineteen houses for the use of the subordinate staff (Traffic Department), South-west line. | 3,470 | 1,736 | 5,206 |



[illegible]dras Railway for the official year 1898–99—*cont.*

| Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| .. | .. | .. | 300 | 7,000 | 7,300 | 2,805 | 7,873 | 10,678 | .. | |
| 1,28,331 | 71,875 | 2,00,206 | 40,000 | 50,000 | 90,000 | 51,608 | 52,538 | 1,04,146 | .. | |
| .. | .. | .. | 10,000 | .. | 10,000 | .. | .. | .. | .. | |
| .. | .. | .. | 282 | 500 | 782 | 1,000 | 4,574 | 5,574 | .. | |
| 63 | 58 | 121 | 2,470 | 4,719 | 7,180* | .. | .. | .. | .. | |
| 12,646 | 6,956 | 19,602 | 4,945 | .. | 4,945 | .. | .. | .. | .. | |
| .. | .. | .. | 107 | 300 | 407 | 2,000 | 5,514 | 7,514 | .. | |
| .. | .. | .. | 750 | 2,000 | 2,750 | 4,612 | 2,095 | 6,707 | .. | |
| 261 | 7,649 | 7,910 | 685 | 754 | 1,439* | .. | .. | .. | .. | |
| 21,656 | 8,600 | 30,256 | 8,000 | 15,100 | 23,100 | .. | .. | .. | .. | Revised estimate will be forwarded. |
| 1,190 | 1,087 | 2,277 | 2,810 | 4,279 | 7,089* | .. | .. | .. | .. | |
| .. | .. | .. | 234 | 350 | 584 | 7,600 | 3,826 | 11,426 | .. | |
| .. | .. | .. | 4,500 | 2,500 | 7,000 | 2,621 | 2,887 | 5,508 | .. | |
| 3,592 | 1,189 | 4,781 | 1,549 | 348 | 1,897 | .. | .. | .. | .. | |
| 1,247 | 948 | 2,195 | 4,866 | 3,684 | 8,550* | .. | .. | .. | .. | |
| .. | .. | .. | .. | .. | .. | 1,877 | 9,032 | 10,909 | .. | Revised estimate sent forward for sanction. |
| 3,022 | 1,372 | 4,394 | 20 | 67 | 87 | .. | .. | .. | .. | |

* Sanction for the excess over estimate will be obtained on the completion of the work.

## Budget Estimate of Sanctioned Works of

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | | Rs. | Rs. | Rs. |
| | | | ENGINEERING DEPARTMENT—*cont.* | | | |
| | | | *Stations and Buildings*—cont. | | | |
| | | | Gooty—*cont.* | | | |
| 37 | G.O. No. 1159 R. | 17th Dec. 1897. | Twenty-two houses for subordinate staff (Traffic Department). | 4,630 | 2,760 | 7,390 |
| 38 | G.O. No. 694 R. | 19th Oct. 1895. | Altering the distant signals on the Madras Railway. | 419 | 5,061 | 5,480 |
| | M.O.M. | 25th June 1897. | | | | |
| | M.O.M. .. | 29th Oct. „ | | | | |
| | M.O.M. .. | 29th April 1898. | | | | |
| 39 | G.O. No. 208 R. | 26th Mar. 1897 | Alteration of home signals so that their arms will fly to danger on any connection breaking on South-west and North-west lines. | 4,185 | 4,340 | 8,525 |
| | M.O.M. .. | 26th Aug. „ | | | | |
| | | | *Electric Telegraph.* | | | |
| 40 | G.O. No. 798 R. | 25th July 1889. | Revised estimate for the extension of the block system and the introduction of starting semaphore signals, &c., South-west and North-west lines, including additional stations. | 64,943 | 1,01,818 | 1,66,761 |
| | G.I. No. 649 R.C. | 9th „ „ | | | | |
| | M.O.M. .. | 5th Aug. 1897. | | | | |
| 41 | G.O. No. 111 R. | 1st Feb. 1889. | Single needle instruments, batteries, &c., for trial or additional stations. | 4,122 | 3,588 | 7,710 |
| | M.O.M. | 26th „ 1897. | | | | |
| | M.O.M. .. | 29th April 1898. | | | | |
| 42 | G.O. No. 429 R. | 15th Aug. 1894. | Lighting the Arkónam station and yard by electricity. | 3,830 | 12,170 | 16,000 |
| | M.O.M. .. | 5th „ 1897. | | | | |
| | | | Sanctioned minor works as per Schedule C. | 74,439 | 75,756 | 1,50,195 |
| | | | Total, Engineering Department .. | 5,94,388 | 5,40,255 | 11,34,643 |
| | | | LOCOMOTIVE DEPARTMENT. | | | |
| 1 | G.O. No. 804 R. | 21st Sept. 1896. | Fitting automatic vacuum brake gear for ten engines. | 2,496 | 12,124 | 14,620 |
| | M.O.M. .. | 29th April 1898. | | | | |
| 2 | G.O. No. 642 R. | 28th July 1896. | Do. do. do. | 1,200 | 8,680 | 9,880 |
| | G.I. No. 302 R.S. | 13th „ „ | | | | |
| 3 | G.O. No. 14 R. | 8th Jan. 1897. | Fitting automatic vacuum brake gear for four engines. | 1,200 | 3,889 | 5,089 |
| 4 | G.O. No. 361 R. | 20th May „ | Two new locomotive engines .. .. | 8,400 | 27,518 | 35,918 |
| | G.I. No. 191 R.S. | 5th „ „ | | | | |
| | M.O.M. .. | 29th April 1898. | | | | |
| 5 | G.O. No. 391 R. | 5th June 1897. | Fitting automatic vacuum brake gear for six engines. | 2,500 | 6,760 | 9,260 |
| | G.I. No. 213 R.S. | 22nd May „ | | | | |
| 6 | G.O. No. 650 R. | 15th Sept. „ | Do. do. do. | 300 | 5,660 | 5,960 |
| 7 | G.O. No. 445 R. | 8th July „ | One planing machine .. .. .. | 180 | 6,090 | 6,270 |
| | | | Total, Locomotive Department .. | 16,276 | 70,721 | 86,997 |
| | | | CARRIAGE AND WAGON DEPARTMENT. | | | |
| 1 | G.O. No. 102 R. | 13th Feb. 1897. | Fitting carriages with apparatus for gas lighting. | 20,814 | 1,90,442 | 2,11,256 |
| | G.I. No. 55 R.S. | 2nd „ „ | Two composites bogie .. .. | | | |
| 2 | G.O. No. 361 R. | 20th May „ | Seventeen third-class carriages .. | 25,425 | 1,01,385 | 1,26,810 |
| | G.I. No. 191 R.S. | 5th „ „ | Two third-class carriages with brakes .. | | | |
| 3 | G.O. No. 804 R. | 21st Sept. 1896. | Two ordinary brake vans .. .. | 4,254 | 21,153 | 25,407 |
| | M.O.M. .. | 29th April 1898. | Fitting automatic vacuum brake gear for fifty carriages. | 5,000 | 22,380 | 27,380 |
| 4 | G.O. No. 642 R. | 28th July 1896. | Do. do. do. | 3,756 | 15,744 | 19,500 |
| | G.I. No. 302 R.S. | 13th „ „ | One bogie corridor composite carriage .. | 25,684 | 85,507 | 1,11,191 |
| 5 | G.O. No. 136 R. | 18th Feb. „ | Fitting automatic vacuum brake gear for two hundred carriages. | 31,510 | 1,64,473 | 1,95,983 |
| | M.O.M. .. | 29th April 1898. | Forty-six third-class carriages .. | | | |
| 6 | G.O. No. 391 R. | 5th June 1897. | Five bogie composite carriages, 1st, 2nd and 3rd. | 35,850 | 1,14,150 | 1,50,000 |
| | G.I. No. 213 R.S. | 22nd May „ | Five bogie third-class carriages .. | | | |
| 7 | G.O. No. 751 R. | 30th Sept. 1897. | | | | |
| | G.I. No. 1398 R.C. | 26th Aug. „ | Total, Carriage and Wagon Department. | 1,52,293 | 7,15,234 | 8,67,527 |
| 8 | G.O. No. 814 R. | 13th Oct. 1897. | | | | |
| | G.I. No. 395 R.S. | 4th „ „ | Total, Schedule A .. | 7,62,957 | 13,26,210 | 20,89,167 |



Madras Railway for the official year 1898–99—*cont.*

| Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | 2,100 | 200 | 2,300 | 2,530 | 2,560 | 5,090 | .. | |
| .. | .. | .. | 419 | 879 | 1,298 | .. | .. | .. | .. | Work completed. The alteration is due to a re-allocation which has been approved of, but not recorded being under Rs. 500. |
| .. | 3,406 | 3,406 | 3,500 | 3,500 | 7,000 | 685 | 840 | 1,525 | .. | |
| .. | .. | .. | | | | | | | | |
| 65,042 | 99,251 | 1,64,293 | Cr. 642 | 274 | Cr. 368 | 543 | 2,293 | 2,836 | .. | |
| 1,645 | 1,794 | 3,439 | 165 | 5 | 170 | .. | .. | .. | .. | |
| 65 | 442 | 507 | 550 | 11,228 | 11,778 | 3,215 | 500 | 3,715 | .. | |
| 10,282 | 9,202 | 19,484 | 41,434 | 34,979 | 76,413 | 29,882 | 30,388 | 60,270 | .. | |
| 2,72,302 | 2,37,741 | 5,10,043 | 1,74,718 | 1,66,830 | 3,41,548 | 1,56,613 | 1,42,477 | 2,99,090 | .. | |
| 916 | 8,105 | 9,021 | 944 | 3,403 | 4,347 | 636 | 616 | 1,252 | .. | |
| .. | .. | .. | 360 | 8,250 | 8,610 | 840 | 430 | 1,270 | .. | |
| 3 | .. | 3 | 300 | 3,250 | 3,550 | 897 | 639 | 1,536 | .. | |
| .. | .. | .. | 8,000 | 27,350 | 35,350 | 400 | 168 | 568 | .. | |
| .. | .. | .. | .. | .. | .. | 2,500 | 6,760 | 9,260 | .. | |
| .. | .. | .. | 300 | 5,660 | 5,960 | .. | .. | .. | .. | |
| .. | .. | .. | .. | .. | .. | 180 | 6,090 | 6,270 | .. | |
| 919 | 8,105 | 9,024 | 9,904 | 47,913 | 57,817 | 5,453 | 14,703 | 20,156 | .. | |
| 19,245 | 1,21,013 | 1,40,258 | 900 | 40,000 | 40,900 | 669 | 29,429 | 30,098 | .. | |
| 11,942 | 39,812 | 51,754 | 7,000 | 56,600 | 63,600 | 6,483 | 4,973 | 11,456 | .. | |
| 1,498 | 9,956 | 11,454 | 2,756 | 11,197 | 13,953 | .. | .. | .. | .. | |
| 2,990 | 3,201 | 6,191 | 2,010 | 19,179 | 21,189 | .. | .. | .. | .. | |
| .. | .. | .. | 3,500 | 15,600 | 19,100 | 256 | 144 | 400 | .. | |
| .. | .. | .. | 5,300 | 60,000 | 65,300 | 20,384 | 25,507 | 45,891 | .. | |
| .. | .. | .. | 1,000 | 30,000 | 31,000 | 36,510 | 1,34,473 | 1,64,983 | .. | |
| .. | .. | .. | .. | .. | .. | 35,850 | 1,14,150 | 1,50,000 | .. | 443/794 of the total cost of this stock to be recovered from Great Indian Peninsula Railway. |
| 35,675 | 1,73,982 | 2,09,657 | 22,466 | 2,32,576 | 2,55,042 | 94,152 | 3,08,676 | 4,02,828 | .. | |
| 3,08,896 | 4,19,828 | 7,28,724 | 2,07,088 | 4,47,319 | 6,54,407 | 2,56,218 | 4,65,856 | 7,22,074 | .. | |

SCHEDULE B OR CONSTRUCTION—PART II.

BUDGET Estimate of Unsanctioned Works of the Madras Railway for the official year 1898–99.

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. | Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | |
| | | | *Stations and Buildings.* | | | | | | | | | | | | | | |
| | | | Ráyapuram. | | | | | | | | | | | | | | |
| 1 | .. | .. | Export and import sheds and sidings at Ráyapuram. | 12,406 | 35,644 | 48,050 | .. | .. | .. | .. | .. | .. | 10,000 | 10,000 | 20,000 | 28,050 | |
| 2 | .. | .. | Branch line and siding for harbour coal traffic at Ráyapuram. | 5,156 | 18,672 | 23,828 | .. | .. | .. | .. | .. | .. | 5,156 | 10,000 | 15,156 | 8,672 | |
| 3 | .. | .. | Madras Railway and South Indian Railway joint station and line within the limits of Ráyapuram yard. | 55,675 | 51,376 | 1,07,051 | .. | .. | .. | .. | .. | .. | 25,000 | 15,000 | 40,000 | 67,051 | |
| 4 | .. | .. | Verandah or window shades on the north side of the Ticket Printing office, additional accommodation to Traffic Audit office and record-room at Ráyapuram. | 6,790 | 4,528 | 11,318 | .. | .. | .. | .. | .. | .. | 6,790 | 4,528 | 11,318 | .. | |
| | | | Washermanpet. | | | | | | | | | | | | | | |
| 5 | .. | .. | Branch line from Washermanpet to Salt Cotaurs. | 71,734 | 30,289 | 1,02,023 | .. | .. | .. | .. | .. | .. | 30,000 | 20,000 | 50,000 | 52,023 | |
| 6 | .. | .. | Junction station at Washermanpet and extension to Ráyapuram. | 49,068 | 6,587 | 55,655 | .. | .. | .. | .. | .. | .. | 10,000 | 6,587 | 16,587 | 39,068 | |
| | | | Salt Cotaurs. | | | | | | | | | | | | | | |
| 7 | .. | .. | Junction arrangement at Salt Cotaurs in connection with East Coast Railway. | 4,23,202 | 73,680 | 4,96,882 | .. | .. | .. | .. | .. | .. | 40,000 | 30,000 | 70,000 | 4,26,882 | |
| 8 | .. | .. | Proposed boundary wall and raising ground at Salt Cotaurs. | 7,568 | 262 | 7,830 | .. | .. | .. | .. | .. | .. | 7,568 | 262 | 7,830 | .. | |
| | | | Central Station. | | | | | | | | | | | | | | |
| 9 | .. | .. | Station master's house, &c., at Central Station. | 3,217 | 1,818 | 5,035 | .. | .. | .. | .. | .. | .. | 3,217 | 1,818 | 5,035 | .. | |
| | | | Perambúr Works. | | | | | | | | | | | | | | |
| 10 | .. | .. | Bungalow for Second Assistant Locomotive Superintendent, at Perambúr Works. | 4,329 | 2,871 | 7,200 | .. | .. | .. | .. | .. | .. | 4,329 | 2,871 | 7,200 | .. | |
| 11 | .. | .. | Bungalow for Medical officer at Perambúr. | 5,601 | 3,999 | 9,600 | .. | .. | .. | .. | .. | .. | 5,601 | 3,999 | 9,600 | .. | |
| 12 | .. | .. | Proposed extension of workshops at Perambúr. | 3,31,626 | 2,73,508 | 6,05,134 | .. | .. | .. | .. | .. | .. | 20,000 | 30,000 | 50,000 | 5,55,134 | |
| | | | Arkónam. | | | | | | | | | | | | | | |
| 13 | .. | .. | Improvements and additions to the station yard at Arkónam. | 54,286 | 37,260 | 91,546 | .. | .. | .. | .. | .. | .. | 16,113 | 20,000 | 36,113 | 55,433 | |
| | | | Bangalore City. | | | | | | | | | | | | | | |
| 14 | .. | .. | Five houses for European joint clerks at Bangalore City. | 13,445 | 2,980 | 16,425 | .. | .. | .. | .. | .. | .. | 13,445 | 2,980 | 16,425 | .. | |
| 15 | .. | .. | Proposed shed for making gas at Bangalore City. | 8,732 | 7,434 | 16,166 | .. | .. | .. | .. | .. | .. | 8,732 | 7,434 | 16,166 | .. | |
| | | | Erode. | | | | | | | | | | | | | | |
| 16 | .. | .. | Alteration to station-house at Erode .. | 4,473 | 4,467 | 8,940 | .. | .. | .. | .. | .. | .. | 4,473 | 4,467 | 8,940 | .. | |
| | | | Mettupalaiyam. | | | | | | | | | | | | | | |
| 17 | .. | .. | Watering arrangements at Mettupalaiyam. | 8,208 | 15,858 | 24,066 | .. | .. | .. | .. | .. | .. | 8,208 | 15,858 | 24,066 | .. | |
| | | | Nandalur. | | | | | | | | | | | | | | |
| 18 | .. | .. | Twenty-two houses for subordinate staff at Nandalur. | 6,731 | 2,775 | 9,506 | .. | .. | .. | .. | .. | .. | 6,731 | 2,775 | 9,506 | .. | |
| 19 | .. | .. | Apothecary's quarters and dispensary at Nandalur. | 4,565 | 1,808 | 6,373 | .. | .. | .. | .. | .. | .. | 4,565 | 1,808 | 6,373 | .. | |
| | | | Gooty. | | | | | | | | | | | | | | |
| 20 | .. | .. | Watering arrangements, bringing water by pipes from stream at 258/11 miles, North-west line. | 2,375 | 7,892 | 10,267 | .. | .. | .. | .. | .. | .. | 2,375 | 7,892 | 10,267 | .. | |



WORKS—PART II.

Madras Railway for the official year 1898–99.

Budget Estimate of Unsanctioned Works of the

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | Rs. | Rs. | Rs. |
| | | | *Stations and Buildings*—cont. | | | |
| | | | Raichur. | | | |
| 21 | .. | .. | Alteration to station yards at Raichur .. | 5,224 | 8,841 | 14,065 |
| | | | Miscellaneous. | | | |
| 22 | .. | .. | Two complete trial stations including lay-byes, loading banks, platforms, &c. | 14,592 | 10,824 | 25,416 |
| 23 | .. | .. | Two crossing stations .. .. .. | 4,888 | 15,648 | 20,536 |
| 24 | .. | .. | Four double bungalows for guards .. | 17,008 | 5,744 | 22,752 |
| 25 | .. | .. | Six houses for Native stationmasters .. | 4,398 | 2,442 | 6,840 |
| 26 | .. | .. | Twenty-five houses for subordinate staff (Traffic Department). | 7,688 | 3,162 | 10,850 |
| 27 | .. | .. | Distant signals for six stations, South-west and North-west lines. | 1,320 | 5,016 | 6,336 |
| | | | *Electric Telegraph.* | | | |
| 28 | .. | .. | Lighting the Arkónam station and yard by electricity. | Cr. 1,140 | 3,354 | 2,214 |
| | | | Unsanctioned minor works as per Schedule C. | 32,153 | 17,084 | 49,237 |
| | | | Total, Engineering Department .. | 11,65,318 | 6,55,823 | 18,21,141 |
| | | | LOCOMOTIVE DEPARTMENT. | | | |
| 1 | .. | .. | Fitting automatic vacuum brake gear for eight engines. | 400 | 7,550 | 7,950 |
| | | | CARRIAGE AND WAGON DEPARTMENT. | | | |
| 1 | .. | .. | Fitting automatic vacuum brake gear for 200 carriages. | 25,684 | 85,507 | 1,11,191 |
| 2 | .. | .. | Two tool vans .. .. .. | 1,240 | 5,760 | 7,000 |
| 3 | .. | .. | Two tank wagons for kerosine-oil, 15 tons. | 1,540 | 6,360 | 7,900 |
| 4 | .. | .. | Two hundred open goods .. .. | 47,436 | 3,20,564 | 3,68,000 |
| 5 | .. | .. | Gas plant for joint installation at Bangalore city. | 7,000 | 38,000 | 45,000 |
| | | | Total, Carriage and Wagon Department. | 82,900 | 4,56,191 | 5,39,091 |
| | | | Total, Schedule B .. | 12,48,618 | 11,19,564 | 23,68,182 |



...as Railway for the official year 1898–99—*cont.*

| Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | | | | 5,224 | 8,841 | 14,065 | .. | |
| .. | .. | .. | .. | .. | .. | | | | | |
| | | | | | | 14,592 | 10,824 | 25,416 | .. | |
| | | | | | | 4,888 | 15,648 | 20,536 | .. | |
| .. | .. | .. | .. | .. | .. | 17,008 | 5,744 | 22,752 | .. | |
| .. | .. | .. | .. | .. | .. | 4,398 | 2,442 | 6,840 | .. | |
| .. | .. | .. | .. | .. | .. | 7,688 | 3,162 | 10,850 | .. | |
| .. | .. | .. | .. | .. | .. | 1,320 | 5,016 | 6,336 | .. | |
| .. | .. | .. | .. | .. | .. | Cr. 1,140 | 3,354 | 2,214 | .. | Difference between the estimate sanctioned in G.O., No. 429 R., dated 15th August 1894, and the revised estimate. |
| .. | .. | .. | .. | .. | .. | 32,153 | 17,084 | 49,237 | .. | |
| .. | .. | .. | .. | .. | .. | 3,18,434 | 2,70,394 | 5,88,828 | 12,32,313 | |
| .. | .. | .. | .. | .. | .. | 300 | 5,700 | 6,000 | 1,950 | |
| | | | | | | 25,684 | 85,507 | 1,11,191 | .. | |
| .. | .. | .. | .. | .. | .. | 1,240 | 5,760 | 7,000 | .. | |
| .. | .. | .. | .. | .. | .. | 1,540 | 6,360 | 7,900 | .. | |
| .. | .. | .. | .. | .. | .. | 47,436 | 3,20,564 | 3,68,000 | .. | |
| .. | .. | .. | .. | .. | .. | 7,000 | 38,000 | 45,000 | .. | |
| .. | .. | .. | .. | .. | .. | 82,900 | 4,56,191 | 5,39,091 | .. | |
| .. | .. | .. | .. | .. | .. | 4,01,634 | 7,32,285 | 11,33,919 | 12,34,263 | |

SCHEDULE C OR CONSTRUCTION

BUDGET Estimate of Minor Works of the

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | SANCTIONED WORKS. | Rs. | Rs. | Rs. |
| | | | ENGINEERING DEPARTMENT. | | | |
| | | | *Bridgework.* | | | |
| 1 | C.E. No. 725 .. | 4th Mar. 1896. | Strengthening the girders of bridge No. 82 | 375 | 2,429 | 2,804 |
| | M.O.M. .. | 28th Oct. ,, | at 175/16 miles, Bangalore branch. | | | |
| 2 | C.E. No. 3222.. | 15th ,, 1897. | Strengthening 2-64 feet girders by inserting central masonry piers at 307/17 miles, Nilgiri branch line. | 817 | 213 | 1,030 |
| 3 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 312/13 miles, Nilgiri branch line. | 955 | 213 | 1,168 |
| 4 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 314/10 miles, Nilgiri branch line. | 996 | 213 | 1,209 |
| 5 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 142/10 miles, North-west line. | 651 | 212 | 863 |
| 6 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 4-64 feet girders by inserting central masonry piers at 232/3 miles, North-west line. | 2,010 | 425 | 2,435 |
| 7 | C.E. No. 3222.. | 15th ,, ,, | Strengthening 2-64 feet girders by inserting central masonry piers at 232/10 miles, North-west line. | 833 | 212 | 1,045 |
| 8 | C.E. No. 3515.. | 17th Nov. ,, | Strengthening 4-64 feet girders at 313/12 miles, Nilgiri branch line. | 2,733 | 425 | 3,158 |
| 9 | C.E. No. 3515.. | 17th ,, ,, | Strengthening 4-64 feet girders at 321/13 miles, Nilgiri branch line | 2,342 | 426 | 2,768 |
| 10 | C.E. No. 3515.. | 17th ,, ,, | Strengthening 4-64 feet girders at 308/17 miles, Nilgiri branch line. | 3,087 | 425 | 3,512 |
| 11 | G.O. No. 336 R. | 11th May ,, | Restoration of bridge No. 251 at 107/10-11 | 3,851 | .. | 3,851 |
| | M.O.M. .. | 25th Mar. 1898. | miles, North-West line. | | | |
| | | | *Stations and Buildings.* | | | |
| | | | Ráyapuram. | | | |
| 12 | C.E. No. 997 .. | 27th Mar. 1896. | Lengthening the engine turn-table at | 735 | 750 | 1,485 |
| | M.O.M. .. | 25th June 1897. | Rénigunta from 45 to 50 feet and fixing | | | |
| | M.O.M. .. | 29th April 1898. | it at Ráyapuram. | 130 | 1,825 | 1,955 |
| 13 | C.E. No. 2733.. | 23rd Aug. 1897. | Re-arrangement of signals between | 564 | 506 | 1,070 |
| | M.O.M. .. | 25th Mar. 1898. | Washermanpet and Ráyapuram. | | | |
| 14 | C.E. No. 2539.. | 4th Aug. 1897. | Substitution of larger level crossing gates | | | |
| | M.O.M. .. | 25th Mar. 1898. | at Monegar Choultry. | | | |
| | | | Washermanpet. | | | |
| 15 | C.E. No. 2003.. | 16t June 1897. | Substitution of larger level crossing gate | 644 | 608 | 1,252 |
| | M.O.M. .. | 25th Mar. 1898. | at Washermanpet. | 1,082 | 706 | 1,788 |
| 16 | C.E. No. 2956.. | 11th Sept. 1897. | Extension of platform at Washermanpet station on Ennur line side. | 200 | 1,955 | 2,155 |
| 17 | C.E No. 871 .. | 25th Mar. 1898. | Extension of through siding at Washermanpet to connect lay-bye at Rayapuram (South West line). | 1,206 | .. | 1,206 |
| 18 | C.E. No. 1134.. | 25th ,, 1897. | Inserting rubble drains through bank | | | |
| | M.O.M. .. | 28th Jan. 1898. | slopes from 2/0 to 3/5 miles, South-west line. | | | |
| | | | Perambúr Works. | | | |
| 19 | C.E. No. 2056.. | 23rd June 1896. | Additions and alterations to tyre shop at | 1,606 | 715 | 2,321 |
| | M.O.M. .. | 3rd Dec. 1897. | Perambúr Works. | 247 | 2,899 | 3,146 |
| 20 | C.E. No. 1884.. | 22nd June 1896. | Interlocking points and signals at west | 252 | 1,579 | 1,831 |
| | M.O.M. .. | 29th Sept. 1897. | end of Perambúr Works. | 1,044 | 437 | 1,481 |
| 21 | C.E. No. 1886.. | 5th June ,, | Proposed pattern loft under water tank | 187 | 2,592 | 2,779 |
| | M.O.M. .. | 3rd Dec. ,, | iron foundry at Perambúr Works. | 444 | 2,450 | 2,894 |
| 22 | C.E. No. 2598.. | 10th Aug. ,, | Examining pits in carriage lifting shed at Perambúr Works. | | | |
| 23 | C.E. No. 2954.. | 11th Sept. ,, | Line leading from timber yard into saw | | | |
| | M.O.M. .. | 25th Mar. 1898. | mills at Perambúr Workshop yard. | | | |
| 24 | C.E. No. 3844.. | 17th Dec. 1897. | Lower roof and ventilation to erecting and fitting shop at Perambur works. | | | |
| | | | Arkónam. | | | |
| 25 | C.E. No. 500 .. | 10th Feb. 1897. | Saw pit for engineering workshops at | 893 | 664 | 1,557 |
| | M.O.M. .. | 28th Jan. 1898. | Arkónam. | | | |



RKS—PART III.

Madras Railway for the official year 1898-99.

| Actual expenditure up to close of official year 1896-97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897-98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898-99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | | | | 375 | 2,429 | 2,804 | .. | |
| .. | .. | .. | .. | .. | .. | | | | | |
| .. | .. | .. | 800 | 200 | 1,000 | 17 | 13 | 30 | .. | |
| .. | .. | .. | 500 | 150 | 650 | 455 | 63 | 518 | .. | |
| .. | .. | .. | 900 | 200 | 1,100 | 96 | 13 | 109 | .. | |
| .. | .. | .. | .. | .. | .. | 651 | 212 | 863 | .. | |
| .. | .. | .. | .. | .. | .. | 2,010 | 425 | 2,435 | .. | |
| .. | .. | .. | .. | .. | .. | 833 | 212 | 1,045 | .. | |
| .. | .. | .. | 733 | 225 | 958 | 2,000 | 200 | 2,200 | .. | |
| .. | .. | .. | 342 | 226 | 568 | 2,000 | 200 | 2,200 | .. | |
| .. | .. | .. | 2,800 | 225 | 3,025 | 287 | 200 | 487 | .. | |
| .. | .. | .. | 14,399 | 2,756 | 17,155 | .. | .. | .. | .. | Revised estimate sent forward for sanction. |
| .. | .. | .. | .. | 750 | * 750 | .. | .. | .. | .. | * Work completed. The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| .. | .. | .. | 210 | 745 | † 955 | .. | 1,000 | 1,000 | .. | |
| .. | .. | .. | 164 | 206 | 370 | 400 | 300 | 700 | .. | |
| .. | .. | .. | 344 | 500 | 844 | 300 | 108 | 408 | .. | |
| .. | .. | .. | 1,082 | 706 | 1,788 | .. | .. | .. | .. | |
| .. | .. | .. | .. | .. | .. | 200 | 1,955 | 2,155 | .. | |
| .. | .. | .. | 1,121 | .. | 1,121 | .. | .. | .. | .. | |
| | | | | | | | | | | |
| 623 | 241 | 864 | 883 | 259 | 1,142 | 100 | 215 | 315 | .. | |
| .. | 1,185 | 1,185 | 635 | 1,600 | ‡ 2,235 | .. | .. | .. | .. | ‡ Sanction for the excess over estimate will be obtained on the completion of the work. |
| .. | .. | .. | 252 | 1,579 | 1,831 | .. | .. | .. | .. | |
| .. | .. | .. | 1,044 | 437 | 1,481 | .. | .. | .. | .. | |
| .. | .. | .. | 120 | 2,200 | 2,320 | 67 | 392 | 459 | .. | |
| .. | .. | .. | 100 | 450 | 550 | 344 | 2,000 | 2,344 | .. | |
| .. | .. | .. | 731 | 663 | § 1,394 | .. | .. | .. | .. | § The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |

† Sanction for re-allocation of the estimate will be obtained subsequently.

Budget Estimate of Minor Works of

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | | | |
| | | | *Stations and Buildings*—cont. | Rs. | Rs. | Rs. |
| | | | Arkónam—cont. | | | |
| 26 | C.E. No. 2002 .. | 16th June 1897. | Timber shed in engineering workshops at Arkónam. | 937 | 1,323 | 2,260 |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| 27 | C.E. No. 3869.. | 18th Dec. 1897. | Depôt shed at Arkónam .. .. | 2,554 | 500 | 3,054 |
| 28 | C.E. No. 842 .. | 23rd Mar. 1898. | Additional room, &c., to Engine drivers' bungalow No. 25 at Arkónam. | 871 | 849 | 1,720 |
| 29 | C.E. No. 870 .. | 25th ,, ,, | Converting travelling Auditors' bungalow into school mistress' quarters at Arkónam. | 618 | 635 | 1,253 |
| 30 | C.E. No. 937 .. | 1st April ,, | Transfer of Telegraph workshop to proposed new site at Arkónam. | 1,378 | 2,953 | 4,331 |
| | | | Munnal. | | | |
| 31 | C.E. No. 3786.. | 11th Dec. 1897. | Interlocking points and signal at Munnal. | 223 | 2,246 | 2,469 |
| | | | Arcot. | | | |
| 32 | C.E. No. 2728.. | 27th Aug. 1895. | Six houses for subordinate staff at Arcot. | 805 | 429 | 1,234 |
| | M.O.M. .. | 30th Sept. 1896. | | | | |
| | M.O.M. .. | 2nd Dec. ,, | | | | |
| | M.O.M. .. | 3rd Dec. 1897. | | | | |
| | | | Virinchipuram. | | | |
| 33 | C.E. No. 936 .. | 1st April 1898. | Wooden palings on platform in lieu of wire fence at Virinchipuram. | 64 | 1,275 | 1,339 |
| | | | Ambúr. | | | |
| 34 | C.E. No. 2802.. | 8th Sept. 1896. | Alterations and additions to station-house at Ambúr. | 440 | 70 | 510 |
| | M.O.M. .. | 5th Aug. 1897. | | | | |
| | M.O.M. .. | 29th Sept. ,, | | | | |
| | | | Buddireddipatti. | | | |
| 35 | C.E. No. 1008.. | 8th April 1898. | Proposed additional wrought iron tank at Buddireddipatti. | 30 | 1,082 | 1,112 |
| | | | Jalarpet. | | | |
| 36 | C.E. No. 3870.. | 18th Dec. 1897. | Double bungalow for family guards at Jalarpet. | 3,218 | 1,563 | 4,781 |
| | | | Mullanur. | | | |
| 37 | C.E. No. 283 .. | 28th Jan. 1898. | Proposed additional sidings at Mullanur. | 477 | 2,912 | 3,389 |
| | | | Gudupalli. | | | |
| 38 | C.E. No. 1887.. | 22nd June 1896. | Watering arrangement at Gudupalli .. | 1,720 | 956 | 2,676 |
| | C.E. No. 2113.. | 15th July ,, | | | | |
| | M.O.M. .. | 26th Aug. 1897. | | | | |
| | | | Bisanatham. | | | |
| 39 | C.E. No. 318 .. | 26th Jan. 1897. | Stationmaster and Assistant Stationmaster's houses at Bisanatham. | 1,246 | 914 | 2,160 |
| | M.O.M. .. | 29th Oct. ,, | | | | |
| 40 | C.E. No. 1932.. | 10th June ,, | Four houses for subordinate staff of the Traffic Department at Bisanatham. | 775 | 440 | 1,215 |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| | | | Bowringpet. | | | |
| 41 | C.E. No. 1806.. | 13th June 1896. | Locomotive siding at Bowringpet .. | 944 | 1,386 | 2,330 |
| | M.O.M. .. | 26th Aug. 1897. | | | | |
| 42 | C.E. No. 2955.. | 11th Sept. ,, | Signals arrangement at Bowringpet .. | 316 | 2,725 | 3,041 |
| | M.O.M. .. | 25th Mar. 1898. | | | | |
| 43 | C.E. No. 1174.. | 15th April 1896. | Removing and refixing engine turn-table and alteration of sidings at Bowringpet. | 391 | 2,453 | 2,844 |
| | M.O.M. .. | 26th Aug. 1897. | | | | |
| 44 | C.E. No. 1534.. | 18th May 1896. | Third-class waiting room to be extended westwards to take in the present store-room and fruit stall to be built beyond this at Bowringpet. | 1,536 | 905 | 2,441 |
| | M.O.M. .. | 29th Sept. 1897. | | | | |
| | M.O.M. .. | 29th Oct. ,, | | | | |
| 45 | C.E. No. 3857.. | 18 Dec. 1897 .. | Raising and increasing the capacity of Locomotive tank at Bowringpet. | 2,879 | 30 | 2,909 |
| | | | Krishnarajapuram. | | | |
| 46 | C.E. No. 3843.. | 17th Dec. 1897. | Stationmaster's house at Krishnarajapuram. | 806 | 403 | 1,209 |
| | | | Bangalore Cantonment. | | | |
| 47 | C.E. No. 2021. | 17th June 1897. | New engine turn-table 50 feet diameter in lieu of the existing one 40 feet diameter at Bangalore Cantonment. | 781 | 1,883 | 2,664 |
| | M.O.M. .. | 25th Mar. 1898. | | | | |



adras Railway for the official year 1898–99—*cont.*

| Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| .. | .. | .. | 1,084 | 1,323 | * 2,407 | 20 | 40 | 60 | .. | * Sanction for the excess over estimate will be obtained on the completion of the work. |
| .. | .. | .. | 154 | 100 | 254 | 2,400 | 400 | 2,800 | .. | |
| .. | .. | .. | .. | .. | .. | 871 | 849 | 1,720 | .. | |
| .. | .. | .. | .. | .. | .. | 618 | 635 | 1,253 | .. | |
| .. | .. | .. | .. | .. | .. | 1,378 | 2,953 | 4,331 | .. | |
| .. | .. | .. | 50 | 246 | 296 | 173 | 2,000 | 2,173 | .. | |
| .. | .. | .. | .. | .. | .. | 805 | 429 | 1,234 | .. | |
| .. | .. | .. | .. | .. | .. | 64 | 1,275 | 1,339 | .. | |
| 428 | 69 | 497 | Cr. 53 | .. | Cr. 53 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| .. | .. | .. | .. | .. | .. | 30 | 1,082 | 1,112 | .. | |
| .. | .. | .. | 218 | 563 | 781 | 3,000 | 1,000 | 4,000 | .. | |
| .. | .. | .. | 77 | 200 | 277 | 400 | 2,712 | 3,112 | .. | |
| 1,720 | 940 | 2,660 | .. | 16 | 16 | .. | .. | .. | .. | |
| 151 | 205 | 356 | 936 | 521 | 1,457 | .. | .. | .. | .. | |
| .. | .. | .. | 775 | 368 | † 1,143 | .. | .. | .. | .. | † The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| 3 | .. | 3 | .. | 1,072 | 1,072 | .. | .. | .. | .. | |
| .. | .. | .. | 216 | 1,500 | 1,716 | 100 | 1,225 | 1,325 | .. | |
| 81 | 557 | 638 | .. | 1,139 | 1,189 | .. | .. | .. | .. | |
| 1,329 | 879 | 2,208 | Cr. 48 | 25 | Cr. 23 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| .. | .. | .. | 309 | .. | 300 | 2,579 | 30 | 2,609 | .. | |
| .. | .. | .. | 100 | 100 | 200 | 706 | 303 | 1,009 | .. | |
| .. | .. | .. | 781 | 1,883 | 2,664 | .. | .. | .. | .. | |

Budget Estimate of Minor Works of t

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | | | |
| | | | *Stations and Buildings*—cont. | Rs. | Rs. | Rs. |
| | | | Bangalore City. | | | |
| 48 | C.E. No. 1257 . | 21st April 1896. | Constructing twelve huts for the Police force of the Civil and Military stations on the Bangalore Branch. | 3,188 | 1,341 | 4,529 |
| | M.O.M. .. | 2nd Dec. ,, | | | | |
| | C.E. No. 183 .. | 19th Jan. 1898. | | | | |
| | M.O.M. .. | 29th April ,, | | | | |
| 49 | C.E. No. 24 .. | 6th Jan. 1897. | Police station at Bangalore City .. | 1,262 | 821 | 2,083 |
| | M.O.M. .. | 29th Oct. ,, | | | | |
| | M.O.M. .. | 29th April 1898. | | | | |
| 50 | C.E. No. 2244.. | 8th July 1897. | Store room for Carriage Examiner at Bangalore City. | 819 | 360 | 1,179 |
| | M.O.M. | 28th Jan 1898. | | | | |
| 51 | C.E. No. 680 .. | 28th Feb. 1896. | Watering arrangements at 204/2 miles south-west line. | 1,045 | 113 | 1,158 |
| | M.O.M. .. | 30th Sept. ,, | | | | |
| | M.O.M. .. | 29th Sept. 1897. | | | | |
| | M.O.M. .. | 28th Jan. 1898. | | | | |
| | | | Podanur. | | | |
| 52 | C.E. No. 3868. | 18th Dec. 1897. | Double bungalow for family guards at Pódanur. | 3,045 | 1,572 | 4,617 |
| | | | Olavakkot. | | | |
| 53 | C.E. No. 1386. | 23rd Apr 1897. | Proposed 30-ton weigh-bridge in lieu of the existing one at Olavakkot | .. | 1,120 | 1,120 |
| | M.O.M. .. | 29th ,, 1898. | | | | |
| 54 | G.O. No. 10 R. | 8th Jan. 1896. | Alterations and additions of sidings, &c. at west end of station at Olavakkot. | 1,623 | 3,138 | 4,761 |
| | M.O.M. .. | 25th June 1897. | | | | |
| | M.O.M. .. | 25th Feb. 1898. | | | | |
| | | | Palghat. | | | |
| 55 | C.E. No. 3999. | 15th Dec. 1896. | Substitution of brick for matwalls for station house and latrine at Palghat. | 1,410 | 70 | 1,480 |
| | M.O.M. .. | 29th Sept. 1897. | | | | |
| | | | Mettupaliyam. | | | |
| 56 | C.E. No. 3847. | 17th Dec. 1897. | House for Carriage Examiner at Mettupaliyam. | 642 | 525 | 1,167 |
| | | | Tiruttani. | | | |
| 57 | C.E. No. 3265.. | 16th Oct. 1895. | Train-protecting bars at Tiruttani .. | 142 | 1,017 | 1,159 |
| | M.O.M. .. | 27th Mar. 1896 | | | | |
| | M.O.M. .. | 29th Sept. 1897. | | | | |
| | | | Puttúr. | | | |
| 58 | C.E. No. 98 .. | 11th Jan. 1894. | Interlocking points and signals at Puttúr. | 785 | 3,596 | 4,381 |
| | C.E. No. 3170.. | 7th Oct. 1896. | | | | |
| | M.O.M. .. | 5th Aug. 1897. | | | | |
| | M.O.M. .. | 29th Oct. ,, | | | | |
| | | | Renigunta. | | | |
| 59 | C.E. No. 3422.. | 6th Nov. 1897. | Thirty-ton weigh-bridge in lieu of the existing 18½ ton weigh-bridge at Renigunta. | 222 | 1,095 | 1,317 |
| | M.O.M. | 29th April 1898. | | | | |
| | | | Cuddapah. | | | |
| 60 | C.E. No. 3696.. | 21st Nov. 1896. | Ash pit and water column at Cuddapah .. | 646 | 1,594 | 2,240 |
| | M.O.M. | 25th Feb. 1898. | | | | |
| 61 | C.E. No. 435 .. | 5th ,, 1897. | Thirty-ton weigh-bridge in lieu of the existing 18½-ton weigh-bridge at Cuddapah. | 31 | 1,195 | 1,226 |
| | M.O.M. | 29th Oct. ,, | | | | |
| | | | Kamalapuram. | | | |
| 62 | C.E. No. 3267 .. | 20th Oct. 1897. | Extension of platform and diversion of road at Kamalapuram. | 803 | 803 | 1,606 |
| 63 | C.E. No. 1885.. | 5th June ,, | Proposed method of raising tank at Kamalapuram. | 1,118 | 561 | 1,679 |
| | M.O.M. .. | 29th Oct. ,, | | | | |
| | M.O.M. | 25th Mar. 1898. | | | | |



M[illegible]as Railway for the official year 1898–99—*cont.*

| Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| 3,163 | 1,201 | 4,364 | 25 | 122 | 147 | .. | .. | .. | .. | |
| .. | 194 | 194 | 1,167 | 621 | 1788 | .. | .. | .. | .. | |
| .. | .. | .. | 819 | 360 | 1,179 | .. | .. | .. | .. | |
| 1,041 | 109 | 1,150 | .. | Cr. 67 | Cr. 67 | .. | .. | .. | .. | |
| .. | .. | .. | 1,000 | 572 | 1,572 | 2,045 | 1,000 | 3,045 | .. | |
| .. | .. | .. | .. | 919 | 919 | .. | .. | .. | .. | |
| 329 | 236 | 565 | 303 | 2,901 | 3,204 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| 502 | 35 | 537 | 908 | 35 | 943 | .. | .. | .. | .. | |
| .. | .. | .. | 100 | 100 | 200 | 542 | 425 | 967 | .. | |
| 48 | 189 | 237 | 94 | 37 | 131 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| 599 | 2,828 | 3,427 | 186 | 768 | 954 | .. | .. | .. | .. | Do. |
| .. | .. | .. | 221 | 987 | 1,208 | .. | .. | .. | .. | Do. |
| 155 | 210 | 365 | 421 | 1,336 | 1,757 | .. | .. | .. | .. | |
| .. | 7 | 7 | .. | 713 | 713 | .. | .. | .. | .. | |
| | | | 200 | 400 | 600 | 603 | 403 | 1,006 | .. | |
| .. | .. | .. | 1,118 | 561 | 1,679 | .. | .. | .. | .. | |
| .. | .. | .. | | | | | | | | |

## Budget Estimate of Minor Works of the Madras Railway for the official year 1898–99—*cont.*

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. | Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | | | | | | | | | | | | | | |
| | | | *Stations and Buildings*—cont. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | Mangapatnam. | | | | | | | | | | | | | | |
| 64 | C.E. No. 1241.. M.O.M. M.O.M. M.O.M. | 3rd April 1897 29th Oct. „ 25th Mar. 1898. 29th April „ | Block cabin and Booking office, at Mangapatnam. | 920 | 257 | 1,177 | .. | .. | .. | 919 | 237 | 1,156 | .. | .. | .. | .. | The alteration is due to a re-allocation which has been approved of but not recorded being under Rs. 500. |
| 65 | C.E. No. 1957 .. M.O.M. | 11th June 1897. 28th Jan. 1898. | Two houses for Stationmaster and Assistant Stationmaster and three houses for Porters at Mangapatnam. | 2,011 | 1,006 | 3,017 | .. | .. | .. | 1,511 | 500 | 2,011 | 500 | 506 | 1,006 | .. | |
| | | | Kondapuram. | | | | | | | | | | | | | | |
| 66 | C.E. No. 1728.. M.O.M. | 21st May 1897. 28th Jan. 1898. | Proposed extension of platform, &c., at Kondapuram. | 692 | 335 | 1,027 | .. | .. | .. | 692 | 335 | 1,027 | .. | .. | .. | .. | |
| | | | Gooty. | | | | | | | | | | | | | | |
| 67 | C.E.No. 408 .. | 10th Feb. 1898. | Proposed refreshment room, &c., at Gooty. | 698 | 928 | 1,626 | .. | .. | .. | .. | .. | .. | 698 | 928 | 1,626 | .. | |
| | | | Guntakul. | | | | | | | | | | | | | | |
| 68 | C.E. No. 428 .. | 12th Feb. 1898 | Engineering subordinate's quarters at Guntakul. | 1,076 | 428 | 1,504 | .. | .. | .. | .. | .. | .. | 1,076 | 428 | 1,504 | .. | |
| | | | Raichur. | | | | | | | | | | | | | | |
| 69 | C.E. No. 473 .. | 16th Feb. 1898. | Siding required by Messrs. Best and Co. at Raichur. | 150 | 1,097 | 1,247 | .. | .. | .. | .. | .. | .. | 150 | 1,097 | 1,247 | .. | |
| 70 | C.E. No. 1295 .. M.O.M. | 8th April 1897. 28th Jan. 1898. | Fitting of Annet's locks to facing points North-west and South-west lines. | 989 | 731 | 1,720 | .. | .. | .. | .. | .. | .. | 989 | 731 | 1,720 | .. | |
| | | | Electric Telegraph. | | | | | | | | | | | | | | |
| 71 | C.E. No. 4107.. M.OM.. | 22nd Dec. 1896. 25th Mar. 1898. | Telephone circuit with two wires between Central station, Veyasarpaudy and Washermanpet Block houses, also two additional telephones, one for Ráyapuram Block house and one for Washermanpet. | 229 | 1,242 | 1,471 | 110 | 117 | 227 | .. | 409 | 409 | .. | .. | .. | .. | |
| | | | Total, Engineering Department, carried to Schedule A. | 74,439 | 75,756 | 1,50,195 | 10,282 | 9,202 | 19,484 | 41,434 | 34,979 | 76,413 | 29,882 | 30,388 | 60,270 | .. | |
| | | | UNSANCTIONED WORKS. | | | | | | | | | | | | | | |
| | | | ENGINEERING DEPARTMENT. | | | | | | | | | | | | | | |
| | | | *Bridge Work.* | | | | | | | | | | | | | | |
| 1 | .. | .. | Strengthening girders at 248/9 miles, North-west line. | 1,910 | 425 | 2,335 | .. | .. | .. | .. | .. | .. | 1,910 | 425 | 2,335 | .. | |
| 2 | .. | .. | Strengthening girders at 248/15 miles, North-west line. | 955 | 212 | 1,167 | .. | .. | .. | .. | .. | .. | 955 | 212 | 1,167 | .. | |
| 3 | .. | .. | Strengthening girders at 263/3 miles, North-west line. | 1,766 | 425 | 2,191 | .. | .. | .. | .. | .. | .. | 1,766 | 425 | 2,191 | .. | |
| | | | *Stations and Buildings.* | | | | | | | | | | | | | | |
| | | | Central Station. | | | | | | | | | | | | | | |
| 4 | .. | .. | Proposed reading-room at Central Station. | 2,427 | 1,920 | 4,347 | .. | .. | .. | .. | .. | .. | 2,427 | 1,920 | 4,347 | .. | |
| | | | Arkónam. | | | | | | | | | | | | | | |
| 5 | .. | .. | Proposed wall for timber yard at Arkónam. | 3,200 | .. | 3,200 | .. | .. | .. | .. | .. | .. | 3,200 | .. | 3,200 | .. | |
| 6 | .. | .. | Travelling auditors' bungalow at Arkónam. | 2,516 | 1,944 | 4,460 | .. | .. | .. | .. | .. | .. | 2,516 | 1,944 | 4,460 | .. | |
| | | | Mailpatti. | | | | | | | | | | | | | | |
| 7 | .. | .. | Deepening and enlarging well and providing a hand pump at Mailpatti. | 1,455 | 780 | 2,235 | .. | .. | .. | .. | .. | .. | 1,455 | 780 | 2,235 | .. | |
| | | | Bowringpet. | | | | | | | | | | | | | | |
| 8 | .. | .. | Roof over goods platform at Bowringpet. | 745 | 1,154 | 1,899 | .. | .. | .. | .. | .. | .. | 745 | 1,154 | 1,899 | .. | |
| | | | Mullapuram. | | | | | | | | | | | | | | |
| 9 | .. | .. | Catch siding at Mullapuram .. .. | 3,900 | 900 | 4,800 | .. | .. | .. | .. | .. | .. | 3,900 | 900 | 4,800 | .. | |

Budget Estimate of Minor Works of the

| Number of items. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | ENGINEERING DEPARTMENT—*cont.* | | | |
| | | | *Stations and Buildings*—cont. | Rs. | Rs. | Rs. |
| | | | Cauvery. | | | |
| 10 | .. | .. | House for Assistant Stationmaster at Cauvery. | 630 | 407 | 1,037 |
| | | | Tirupur. | | | |
| 11 | .. | .. | House for Stationmaster and Assistant Stationmaster at Tirupur. | 1,112 | 959 | 2,071 |
| | | | Méttupálaiyam. | | | |
| 12 | .. | .. | Alteration of Native latrine and platform at Méttupálaiyam. | 503 | 525 | 1,028 |
| | | | Rénigunta. | | | |
| 13 | .. | .. | Watering arrangements to be improved at Thocock. | 3,052 | .. | 3,052 |
| | | | Nandalur. | | | |
| 14 | .. | .. | Carriage Examiner's house at Nandalur .. | 1,767 | 826 | 2,593 |
| 15 | .. | .. | Two houses for signallers at Nandalur .. | 2,614 | 1,267 | 3,881 |
| | | | Timmencherla. | | | |
| 16 | .. | .. | Goods siding to be connected with main line on the north side of the yard at Timmencherla. | 952 | 2,775 | 3,727 |
| | | | Adóni. | | | |
| 17 | .. | .. | Alterations and additions to sidings at Adóni. | 167 | 1,192 | 1,359 |
| | | | Raichur. | | | |
| 18 | .. | .. | House for inter-communication maistry and two train men. | 882 | 373 | 1,255 |
| | | | Miscellaneous. | | | |
| 19 | .. | .. | Two trial stations .. .. .. .. | 1,100 | .. | 1,100 |
| | | | Electric Telegraph. | | | |
| 20 | .. | .. | Fixing lightning-conductors to the buildings at Bangalore City. | 500 | 1,000 | 1,500 |
| | | | Total, Engineering Department, carried to Schedule B. | 32,153 | 17,084 | 49,237 |

LINES IN COURSE

Budget Estimate of the extension

| Item number. | Sanctions. Number. | Sanctions. Date. | Particulars. | Amount of estimate. Cash outlay in India. | Value of stores. | Total expenditure. |
|---|---|---|---|---|---|---|
| | | | | Rs. | Rs. | Rs. |
| 1 | Provisional sanction of Secretary of State communicated in Government of India, No. 1781 R.C. | 27th October 1897. | Calicut-Cannanore extension .. | .. | .. | 73,75,000 |
| | (Madras Government Order, No. 984 R.) | 15th November 1897. | | | | |
| 2 | Secretary of State, No. 118 Ry., communicated in Government of India. | 19th December 1897. | Arcot-Ranipet branch .. .. | .. | .. | 2,98,00 |
| | No. 32 R.C. | 8th January 1898. | | | | |
| | (Madras Government Order No. 115 R.) | 21st January 1898. | | | | |
| | | | Total .. | .. | .. | 76,73,000 |



Madras Railway for the official year 1898–99—*cont.*

| Actual expenditure up to close of official year 1896–97. Cash outlay in India. | Value of stores. | Total. | Probable expenditure during 1897–98. Cash outlay in India. | Value of stores. | Total. | Budget estimate of expenditure for official year 1898–99. Cash outlay in India. | Value of stores. | Total. | Estimated expenditure in future years. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | | |
| .. | .. | .. | .. | .. | .. | 630 | 407 | 1,037 | .. | |
| .. | .. | .. | .. | .. | .. | 1,112 | 959 | 2,071 | .. | |
| .. | .. | .. | .. | .. | .. | 503 | 525 | 1,028 | .. | |
| .. | .. | .. | .. | .. | .. | 3,052 | .. | 3,052 | .. | |
| .. | .. | .. | .. | .. | .. | 1,767 | 826 | 2,593 | .. | |
| .. | .. | .. | .. | .. | .. | 2,614 | 1,267 | 3,881 | .. | |
| .. | .. | .. | .. | .. | .. | 952 | 2,775 | 3,727 | .. | |
| .. | .. | .. | .. | .. | .. | 167 | 1,192 | 1,359 | .. | |
| .. | .. | .. | .. | .. | .. | 882 | 373 | 1,255 | .. | |
| .. | .. | .. | .. | .. | .. | 1,100 | .. | 1,100 | .. | |
| .. | .. | .. | .. | .. | .. | 500 | 1,000 | 1,500 | .. | |
| .. | .. | .. | .. | .. | .. | 32,153 | 17,084 | 49,237 | .. | |

OF CONSTRUCTION.

of the Madras Railway for the official year 1898–99.

| Actuals, 1896–97. Cash outlay in India. | Value of stores. | Total. | Revised estimate. Cash outlay in India. | Value of stores. | Total. | Budget estimate, 1898–99. Cash outlay in India. | Value of stores. | Total. |
|---|---|---|---|---|---|---|---|---|
| Rs. | Rs. | Rs. | Rs | Rs. | Rs. | Rs. | Rs. | Rs. |
| .. | .. | .. | 1,36,000 | 13,000 | 1,49,000 | 24,92,451 | 8,64,000 | 33,56,451 |
| .. | .. | .. | 14,000 | .. | 14,000 | 1,57,549 | 74,000 | 2,31,549 |
| .. | .. | .. | 1,50,000 | 13,000 | 1,63,000 | 26,50,000 | 9,38,000 | 35,88,000 |

SCHEDULE D OR CONSTRUCTION WORKS—PART IV.

BUDGET ESTIMATE of EMERGENT WORKS of the MADRAS RAILWAY for the official year 1898–99—*Nil.*

REVISED and BUDGET ESTIMATES of STORES TRANSACTIONS on the MADRAS RAILWAY for 1897–98 and 1898–99.

MEMORANDUM.

The budget estimates contemplates a total expenditure of Rs. 47,38,512 as under—

| | | |
|---|---|---|
| Cash outlay on stores ... ... ... ... ... | Rs. | 20,12,148 |
| Expenditure in England including exchange ... ... | „ | 27,26,364 |
| | „ | 47,38,512 |

And is provided for as follows:—

| | | |
|---|---|---|
| Credits for stores issues to Capital works ... | Rs. | 21,36,141 |
| Credits for stores issues to Revenue... ... } Transfers and sales ... ... ... ... } | „ | 25,00,000 |
| | „ | 46,36,141 |
| Balance being Net Capital Grant required ... | „ | 1,02,371 |

## MADRAS RAILWAY.

DETAILS OF THE ESTIMATED TRANSACTIONS UNDER THE HEAD "STORES."
Revised estimate for 1897–98 and Budget estimate 1898–99.

| *Particulars of Debits.* | | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|
| Balance at commencement of the year ... | Rs. | 26,94,077 | 21,96,034 |
| Debits during the year— | | | |
| Local purchases— | | | |
| Firewood ... ... ... ... ... | „ | 4,54,872 | 4,52,000 |
| Oil of sorts ... ... ... ... ... | „ | 1,38,000 | 1,32,600 |
| Cotton waste, &c. ... ... ... ... | „ | 6,840 | 7,000 |
| Coal, Indian ... ... ... ... | „ | 4,65,700 | 4,86,000 |
| Coke do. ... ... ... ... ... | „ | ... | 18,000 |
| Wooden sleepers ... ... ... ... | „ | 25,000 | 25,000 |
| Wooden keys ... ... ... ... | „ | 15,000 | 15,000 |
| Timber of all kinds ... ... ... | „ | 1,73,500 | 2,30,500 |
| Materials for tarpaulins ... ... ... | „ | 4,000 | 3,000 |
| Freight and landing charges ... ... | „ | 50,000 | 50,000 |
| Printing and stationery ... ... ... | „ | 70,000 | 70,000 |
| Hardware (iron, steel, files, screws, &c.) ... | „ | 25,000 | 25,000 |
| Miscellaneous stores ... ... ... | „ | 1,50,000 | 2,48,048 |
| Total ... | „ | 15,77,912 | 17,62,148 |
| London stores— | | | |
| (For Revenue and Capital)— | | | |
| Coke ... ... ... ... ... ... | „ | 15,000 | 12,000 |
| Tyre, engine and tender ... ... ... | „ | 13,890 | 15,000 |
| Axles, do. ... ... ... | „ | 14,800 | 7,000 |
| Wheels and axles, carriage ... ... | „ | ... | 95,200 |
| Machinery and tools ... ... ... | „ | 20,788 | 18,445 |
| Iron and steel ... ... ... ... | „ | 4,820 | 15,000 |
| Copper and brass ... ... ... ... | „ | 47,601 | 40,000 |
| Materials for construction and renewals of rolling stock ... ... ... ... | „ | 76,294 | 2,87,555 |
| Automatic vacuum brake gear ... ... | „ | 57,992 | 55,000 |
| Gas plant and fittings ... ... ... | „ | 40,302 | 46,000 |
| Locomotive engines ... ... ... | „ | ... | 2,06,000 |
| Bridge materials ... ... ... ... | „ | 5,200 | 1,98,796 |
| Permanent-way materials, &c. ... ... | „ | 3,52,800 | 13,89,204 |
| Materials for tarpaulins ... ... ... | „ | 2,000 | 7,000 |
| Telegraph stores ... ... ... ... | „ | 16,165 | 4,985 |
| Sundry stores ... ... ... ... | „ | 56,712 | 3,29,179 |
| Total ... | „ | 7,24,364 | 27,26,364 |



| *Particulars of Debits*—cont. | | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|
| Manufactures— | | | |
| Workshop manufactures— | | | |
| Works in progress ... ... ... ... } New works ... ... ... ... ... } | Rs. | 1,60,000 | 2,50,000 |
| Total debits during the year ... | „ | 24,62,276 | 47,38,512 |
| Grand Total ... | „ | 51,56,353 | 69,34,546 |

*Particulars of Credits.*

| | | | |
|---|---|---|---|
| Credits during the year— | | | |
| Issues to Capital Works— | | | |
| Preliminary expenses ... ... ... ... } Formation ... ... ... ... ... } Bridgework ... ... ... ... ... } Fencing ... ... ... ... ... } Ballast and permanent-way ... ... ... } Stations and buildings ... ... ... } Plant ... ... ... ... ... } Ferries, &c. ... ... ... ... ... } Rolling-stock ... ... ... ... ... } General charges ... ... ... ... } | Rs. | 4,60,319 | 21,36,141 |
| | „ | 4,60,319 | 21,36,141 |
| Issues to Revenue ... ... ... ... } Transfers and sales ... ... ... ... } | „ | 25,00,000 | 25,00,000 |
| Total credits during the year ... | „ | 29,60,319 | 46,36,141 |
| Balance expected at the close of the year ... | „ | 21,96,034 | 22,98,405 |
| Grand Total ... | „ | 51,56,353 | 69,34,546 |
| Net debit or credit to stores transactions being capital grant required ... ... ... | „ | **–4,98,043** | 1,02,371 |

APPENDIX A.

STATEMENT showing details of the sum set aside for expenditure in England on the Madras Railway during 1898–99.

| | | | |
|---|---|---|---|
| Probable amount of oustanding indents of the previous year. | (*a*) | Rs. | 7,93,121 |
| Probable amount of indents to be sent home for compliance during the year ... ... ... ... ... ... | (*b*) | „ | 39,78,307 |
| Establishment charges, etc., payable in England ... ... | | „ | 1,03,636 |
| | | | 48,75,064 |
| Deduct—Probable amount of outstanding at the close of the year ... ... ... ... ... ... ... ... | (*c*) | „ | 20,45,064 |
| Estimated net capital outlay in England ... | (*d*) | „ | 28,30,000 |

(*a*) Includes Rs. 57,095 on account of extensions.
(*b*) Do. „ 23,25,969 do.
(*c*) Do. „ 14,45,064 do.
(*d*) Do. „ 9,38,000 do.

## Schedule F.

### Estimate of Traffic Receipts of the Madras Railway, 1898–99.

| | |
|---|---|
| Number of miles open for traffic on 1st April 1897 ... ... ... ... | 840 |
| Expected to be opened during 1897–98 ... ... ... ... | ... |
| Total on 1st April 1898 ... | 840 |
| Expected to be opened during 1898–99 ... ... ... ... | ... |
| Total likely to be opened at end of 1898–99 ... ... ... ... | 840 |
| Average number of miles expected to be opened during the whole of 1898–99 ... ... ... ... ... ... ... ... | 840 |

| — | Actuals in 1896–97. | Sanctioned budget estimate, 1897–98. | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|---|
| | RS. | RS. | RS. | RS. |
| Coaching traffic ... ... ... | 45,46,792 | 46,00,000 | 46,00,000 | 46,00,000 |
| Goods do. ... ... ... | 62,66,154 | 61,20,000 | 66,00,000 | 62,00,000 |
| Electric Telegraph earnings... ... | 20,194 | 20,000 | 20,000 | 20,000 |
| Sundries ... ... ... ... | 1,92,687 | 1,60,000 | 1,80,000 | 1,80,000 |
| Total ... | 1,10,25,827 | 1,09,00,000 | 1,14,00,000 | 1,10,00,000 |
| Train mileage ... ... ... | 2,487,064 | 2,500,000 | 2,500,000 | 2,500,000 |



## Schedule G.

### Estimate of Revenue Expenditure on the Madras Railway for the official year 1898–99.

| — | Actuals in 1896–97. | Sanctioned budget estimate, 1897–98. | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|---|
| | RS. | RS. | RS. | RS. |
| *Maintenance of Way, Works and Stations.* | | | | |
| 1. General superintendence ... ... ... | 2,51,880 | 2,50,000 | 2,55,000 | 2,50,000 |
| 2. Maintenance and renewal of permanent-way ... ... ... ... ... | 5,33,835 | 5,00,000 | 5,10,000 | 5,00,000 |
| 3. Repairs of bridges, wages and materials ... | 1,14,988 | 2,00,000 | 1,80,000 | 1,95,000 |
| 3-A. Conservancy of rivers ... ... ... | ... | ... | ... | ... |
| 4. Repairs of stations and buildings, wages and materials ... ... ... ... ... | 1,59,571 | 1,70,000 | 1,60,000 | 1,60,000 |
| 5. Maintenance by contract ... ... ... | ... | ... | ... | ... |
| 6. New minor works ... ... ... ... | 15,557 | 25,000 | 20,000 | 20,000 |
| 7. Unclassified expenditure ... ... ... | 1,94,869 | 2,03,600 | 2,00,000 | 2,00,000 |
| Total ... | 12,70,700 | 13,48,600 | 13,25,000 | 13,25,000 |
| Cost of working Kolar Gold Fields Railway ... ... ... ... | 22,109 | 17,500 | 25,000 | 25,000 |
| Total ... | 12,48,591 | 13,31,100 | 13,00,000 | 13,00,000 |
| *Locomotive Expenses.* | | | | |
| 1. General superintendence ... ... ... | 1,37,705 | 1,41,500 | 1,36,120 | 1,39,000 |
| 2. Running expenses (wages connected with the working of locomotive engine) ... | 3,49,140 | 3,50,000 | 3,54,900 | 3,50,000 |
| 3. Fuel ... ... ... ... ... ... | 8,74,879 | 8,65,000 | 9,05,180 | 8,80,000 |
| 4. Water (including wages and stores) ... | 30,921 | 35,000 | 37,700 | 35,000 |
| 5. Oil, tallow and other stores, &c. (expended on engines in work) ... ... .. | 47,185 | 46,800 | 49,890 | 48,000 |
| 6. Maintenance and renewals of locomotive engines ... ... ... ... ... | 5,09,223 | 5,10,000 | 5,34,520 | 5,23,000 |
| 6-A. Maintenance and renewals of machinery, tools and plant ... ... .. | 15,175 | 14,000 | 15,360 | 15,000 |
| 7. New minor works ... ... ... ... | ... | 3,000 | 1,750 | 3,000 |
| 8. Payments to other lines ... ... ... | ... | ... | ... | ... |
| 9. Unclassified expenditure ... ... ... | 1,67,275 | 1,64,500 | 1,76,610 | 1,60,000 |
| Total ... | 21,31,503 | 21,29,800 | 22,12,030 | 21,53,000 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... | 31,206 | 30,300 | 38,570 | 40,000 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 11,880 | 12,100 | 13,460 | 13,000 |
| Total ... | 20,88,417 | 20,87,400 | 21,60,000 | 21,00,000 |

Estimate of Revenue Expenditure on the Madras Railway for the official year 1898–99—*cont.*

| — | Actuals in 1896–97. | Sanctioned budget estimate, 1897–98. | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|---|
| | RS. | RS. | RS. | RS. |
| *Carriage and Wagon Expenses.* | | | | |
| 1. General superintendence ... ... ... | 39,407 | 41,800 | 42,000 | 41,500 |
| 2. Repairs and renewals of vehicles ... ... | 4,91,187 | 4,74,260 | 4,48,500 | 4,12,000 |
| 2-A. Do. do. of machinery, tools and plant ... ... ... ... ... | 12,168 | 9,800 | 12,000 | 10,000 |
| 3. Cleaning carriages and wagons and oiling. | 63,262 | 64,000 | 68,500 | 58,000 |
| 4. New minor works ... ... ... | ... | ... | ... | ... |
| 5. Unclassified expenditure ... ... ... | 60,201 | 60,000 | 55,000 | 42,000 |
| Total ... | 6,66,225 | 6,49,860 | 6,26,000 | 5,63,500 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 599 | ... | ... | ... |
| | 6,65,626 | 6,49,860 | 6,26,000 | 5,63,500 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... | 9,118 | 8,570 | 12,000 | 10,000 |
| | 6,56,508 | 6,41,290 | 6,14,000 | 5,53,500 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 3,479 | 3,390 | 4,000 | 3,500 |
| Total ... | 6,53,029 | 6,37,900 | 6,10,000 | 5,50,000 |
| *Traffic Expenses.* | | | | |
| 1. Salaries and wages ... ... ... | 6,38,333 | 6,38,200 | 6,62,000 | 6,63,000 |
| 2. Fuel, lighting, water and general stores ... | 1,05,128 | 90,000 | 1,00,000 | 80,000 |
| 3. Clothing ... ... ... ... ... | 11,157 | 13,000 | 13,000 | 13,000 |
| 4. Printing, stationery and tickets ... ... | 70,453 | 72,000 | 76,000 | 72,000 |
| 5. Charges for delivery and collection of goods, &c. ... ... ... ... ... | 2,394 | 2,500 | 2,500 | 2,500 |
| 6. Miscellaneous expenses ... ... ... | 4,306 | 5,500 | 5,500 | 5,500 |
| 7. Payments to other lines ... ... ... | 23,210 | 15,000 | 21,000 | 15,000 |
| 8. Unclassified expenditure ... ... ... | 14,583 | 18,000 | 18,000 | 17,000 |
| Total ... | 8,69,564 | 8,54,200 | 8,98,000 | 8,68,000 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 239 | ... | 200 | 200 |
| | 8,69,325 | 8,54,200 | 8,97,800 | 8,67,800 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... | 12,284 | 11,920 | 13,000 | 13,000 |
| | 8,57,041 | 8,42,280 | 8,84,800 | 8,54,800 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 4,837 | 4,780 | 4,800 | 4,800 |
| Total ... | 8,52,204 | 8,37,500 | 8,80,000 | 8,50,000 |
| *General Charges.* | | | | |
| 1. Home expenditure .. ... ... | 72,226 | 75,000 | 80,500 | 75,000 |
| 2. Salaries of Indian management including offices ... ... ... ... ... | 2,83,494 | 2,88,000 | 3,14,380 | 2,90,000 |
| 3. Police ... ... ... ... ... | 38,368 | 38,000 | 39,000 | 38,500 |
| 4. Advertising (all advertisements of all departments) ... ... ... ... ... | 5,367 | 6,000 | 7,000 | 5,500 |
| 5. Electric telegraph ... ... ... ... | 1,44,377 | 1,64,700 | 1,69,060 | 1,60,000 |



Estimate of Revenue Expenditure on the Madras Railway for the official year 1898–99—*cont.*

| — | Actuals in 1896–97. | Sanctioned budget estimate, 1897–98. | Revised estimate, 1897–98. | Budget estimate, 1898–99. |
|---|---|---|---|---|
| | RS. | RS. | RS. | RS. |
| *General Charges*—cont. | | | | |
| 6. Clearing accounts with other lines ... ... | 54,724 | 55,000 | 60,000 | 54,500 |
| 7. Unclassified expenditure ... ... ... | ... | ... | ... | ... |
| Total ... | 5,98,556 | 6,26,700 | 6,69,940 | 6,23,500 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 7,930 | 6,000 | 6,500 | 5,000 |
| | 5,90,626 | 6,20,700 | 6,63,440 | 6,18,500 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... ... | 8,322 | 8,780 | 10,000 | 10,000 |
| | 5,82,304 | 6,11,920 | 6,53,440 | 6,08,500 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 3,286 | 3,520 | 3,440 | 3,500 |
| Total ... | 5,79,018 | 6,08,400 | 6,50,000 | 6,05,000 |
| *Special and Miscellaneous Expenditure.* | | | | |
| 1. Law charges ... ... ... ... ... | 1,579 | 3,000 | 3,000 | 3,000 |
| 2. Compensation ... ... ... ... ... | 2,079 | 2,500 | 3,500 | 2,000 |
| 3. Rates and taxes (including municipal water-rates) ... ... ... ... ... | 23,560 | 24,500 | 25,500 | 24,000 |
| 4. Payments to other lines ... ... ... | 657 | 6,700 | 7,000 | 6,000 |
| 5. Prizes for station gardens, &c. ... ... | 478 | 1,000 | 1,000 | 1,000 |
| 6. Contribution to Railway Provident Institution ... ... ... ... ... | 41,861 | 42,000 | 42,000 | 42,000 |
| 7. Miscellaneous ... ... ... ... | 18,084 | 20,000 | 20,000 | 19,000 |
| Total ... | 88,298 | 99,700 | 1,02,000 | 97,000 |
| Deduct sum chargeable to Fire Insurance Fund ... ... ... ... ... | 446 | ... | ... | ... |
| | 87,852 | 99,700 | 1,02,000 | 97,000 |
| Deduct cost of working Kolar Gold Fields Railway ... ... ... ... ... | 1,225 | 1,400 | 1,400 | 1,400 |
| | 86,627 | 98,300 | 1,00,600 | 95,600 |
| Deduct cost of working Madras-Ennur line ... ... ... ... ... | 488 | 600 | 600 | 600 |
| Total ... | 86,139 | 97,700 | 1,00,000 | 95,000 |

MADRAS,
2nd May 1898.

F. DUNSTERVILLE,
Chief Auditor.

L. S. MOSS,
Agent and Manager.

No. 721 Ry., 13th May 1898.

PUBLIC WORKS DEPARTMENT.

Railway.

Letter—from

Francis J. E. Spring, Esq., c.i.e.,
*Joint Secretary to the Government of Madras,*
*Public Works Department,*
*Railway Branch,*

To

The SECRETARY to the GOVERNMENT of INDIA,
Public Works Department.

Sir,

With reference to Government of India resolution, No. 8/B-O.-A.R., dated 22nd March 1898, I am directed to forward, herewith, the final issue of the revised and budget estimates of the Madras Railway (Capital and Revenue) for the years 1897–98 and 1898–99.

I have the honour to be,
Sir,
Your most obedient servant,

Francis J. E. Spring,
Joint Secretary.

Ootacamund,
13th May 1898.

Exd. C. Parthasarathy.

RAILWAY.

# Government {1898} of Madras.

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**MAY.**

**Budget Estimates**

Forwarding the final issue of the Revised and — of the Madras Railway (Capital and Revenue) for the years 1897–98 and 1898–99.

Form No. 1.

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RAILWAY BRANCH.

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S 28/5/98

Ordered that the final issue of the revised and budget estimates for the Rly (Capital & Revenue) for the years 1897-98 and 1898-99, be forwarded to the Govt of India

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2 Drafts

R.E.No: 721 Dtd 13th May/98

To

The Secretary
to the Govt of India
P.W.D.

Sir,

With reference to Govt of India resolution No: 8/B.O A-R & 22nd March 1898, I am directed to forward herewith the final issue of the revised and budget estimates of the Madras Rly (Capital & Revenue) for

for the years 1897-98 and 1898-99.

CMG

DR

Pfc dew 27/5/98