1899

# Public Works ~~(1900)~~ Department.

CONCERNS BOTH BRITISH INDIA
AND INDIAN STATES.

## RAILWAY BRANCH.

**G.O., No.** 1475 Ry

**DATED** 18 Decr/99

Includes G.O. No. 1132-33 Ry d/11/10/98.

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[Despatch Abstract.]

Establishment Estimates for the Pamban & Travancore branches. S. I. R.

Comg to the Agent, a letter from the Govt of India sanctioning with remarks the — for 1899-1900 and also the estimates relating to the surveys of the lines.

P. W. Ry.
000—7-2-00.

Indexed.

## BACK PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## FURTHER PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

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RAILWAY.

# Government {1899} of Madras.

## PUBLIC WORKS.

*Recd.* } 1899. *Enclosures*
*Regd.* *Spare copies*

### G.O., No. 534 Ry., 5th May 1899.

### MAY.

**Travancore Branch of the South Indian Railway**

Ordering that the South Indian Railway Company's estimate for the — be forwarded for sanction of the Government of India.

## GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

### Railway.

Read again the following paper :—

G.O., No. 263 Ry., dated 4th March 1899.

Read also the following papers :—

From—The Agent, South Indian Railway.
To—The Consulting Engineer for Railways, Madras.
Dated—Trichinopoly, 28th February 1899, No. 188.

In compliance with the request contained in your letter, No. 234, dated 21st January 1899, I have the honour to forward estimates for (1) the final survey and staking out of the ghât section of the Tinnevelly-Quilon Railway, and (2) for staking out and making minor alterations in the alignment of the first and third divisions of the line from mile 0 to 48 and from mile 72 to 103. The cost of the work in these two divisions has been shown separately and the whole survey expenditure for the line incorporated in one abstract. I also forward, for your information, a copy of letter No. T.Q. 1435/8 from the Engineer-in-Chief.

### Enclosures.

From—The Engineer-in-Chief, Madura-Pamban and Tinnevelly-Quilon Railways.
To—The Agent, South Indian Railway.
Dated—24th February 1899, No. T.Q. 1435/8.

[Your No. R. 343/6/232 of 24th January 1899, and No. 343/6/536 of 21st February 1899.]

*Tinnevelly-Quilon Railway Survey Estimates.*

As requested in your above, I have the honour to submit, herewith, separate estimates for the three divisions of the Tinnevelly-Quilon Railway.

The estimates for the first and third divisions are for staking out and minor alterations of alignment, if found necessary, prior to commencement of construction, and it is assumed that the survey will commence on each division on the 1st March. Owing to the more difficult nature of the ground in the eastern part of the third division, I have estimated the work will take four months to complete.

It will, in my opinion, be necessary to spend two seasons on the final survey and alignment of the 24 miles in the ghât division, and I have estimated accordingly. It will be preferable to devote the first season to surveying and determining the position for the best line over about half the length, then to plot and prepare drawings, estimates, &c., during the recess, so that in the following season construction can start on the length fixed and survey work on the remaining distance to be aligned. Having a knowledge of the locality and of the very difficult nature of the ground, I strongly recommend that my proposal be adopted.

I wish specially to point out that unless orders are received so that we can start the survey of the ghât section in June (at the latest), we shall lose a part of the coming season in field work.

I have charged the proportionate amounts for direction of the ghât division for the two years' survey work on the assumption that construction work will start early in the coming financial year.

Travancore Railway—Abstract Survey Estimate for the three divisions.

| Division number. | Particulars. | Cost per mile. | Amount. |
|---|---|---|---|
| | | RS. | RS. |
| 1 | Estimate for staking out and making minor alterations in the alignment of the 1st division from mile 0 to 48 = 48 miles .. .. .. .. .. | 304 | 14,597 |
| 2 | Estimate for staking out and making minor alterations in the alignment of the 2nd or ghât division from mile 48 to 72 = 24 miles .. .. .. .. .. | 5,500 | 1,32,046 |
| 3 | Estimate for staking out and making minor alterations in the alignment of the 3rd division from mile 72 to 103 = 31 miles .. .. .. .. .. | 694 | 21,505 |
| | | Total .. | 1,68,148 |

Note.—*Average cost per mile, for 103 miles, Rs. 1,632 per mile.*

Detailed Estimate for staking out and making minor alterations in the alignment of the 1st Division from mile 0 to mile 48.

| | RS. | RS. | RS. |
|---|---|---|---|
| *Survey Expenses—* | | | |
| (a) Centre line pegs, centre line stones and lockspitting at Rs. 60 × 48 miles. | 2,880 | .. | 2,880 |
| *Plant—* | | | |
| (a) Tents— | | | |
| One Swiss cottage tent .. .. | 500 | | |
| One do. .. .. | 430 | | |
| One Bechoba tent .. .. | 140 | | |
| Twelve servants' pals .. .. | 730 | | |
| Two necessary tents .. .. | 70 | | |
| Carriage .. .. .. | 100 | 1,970 | |
| (b) Instruments— | | | |
| Two theodolites at Rs. 600 .. | 1,200 | | |
| Two levels at Rs. 400 .. .. | 800 | | |
| Four levelling staves at Rs. 50 .. | 200 | | |
| Thirty-six ranging rods at Rs. 3 .. | 108 | | |
| Four measuring chains at Rs. 10 .. | 40 | | |
| Other items of plant .. .. | 1,000 | | |
| | 3,348 | | |
| *Deduct*—75 per cent. on value of stores returned. | 2,511 | 837 | 2,807 |
| Carried over .. | .. | .. | 5,687 |

| | RS. | RS. | RS. |
|---|---|---|---|
| Brought forward .. | .. | .. | 5,687 |
| *Establishment—* | | | |
| March to May 1899— | | | |
| Engineer-in-Chief .. .. .. | 5,430 | | |
| Personal Assistant .. .. .. | 2,400 | | |
| Six clerks .. .. .. | 630 | | |
| Two draftsmen .. .. .. | 240 | | |
| Two tracers .. .. .. | 113 | | |
| Eleven menials .. .. .. | 245 | | |
| Travelling allowances .. .. | 359 | | |
| Office expenses .. .. .. | 150 | | |
| | 9,567 | | |
| Half cost to Madura-Pamban .. | 4,784 | | |
| | 4,783 | | |
| Half cost to Tinnevelly-Quilon Railway for these three months, half of which debit to 1st division. | .. | 2,392 | |
| *Field Establishment—* | | | |
| One Engineer at Rs. 500 × 3 months .. | 1,500 | | |
| One Engineer at ,, 400 × 3 ,, .. | 1,200 | | |
| Two Surveyors at ,, 150 × 3 ,, .. | 900 | | |
| One clerk at ,, 40 × 3 ,, .. | 120 | | |
| One draftsman at ,, 40 × 3 ,, .. | 120 | | |
| One Apothecary at Rs. 50 × 3 months. | 150 | | |
| Thirty-two lascars at Rs. 8 × 32 × 3 months. | 768 | | |
| Travelling allowance at Rs. 320 × 3 months. | 960 | | |
| Contingencies .. .. .. | 800 | 6,518 | 8,910 |
| Total, 1st Division .. | .. | .. | 14,597 |

Detailed Estimate for staking out and making minor alterations in the alignment of the 3rd Division from mile 72 to 103.

| | RS. | RS. | RS. |
|---|---|---|---|
| *Survey Expenses—* | | | |
| (a) Centre line pegs, clearing jungle, pillars, lockspitting, at Rs. 100 × 48 miles. | 4,800 | .. | 4,800 |
| *Plant—* | | | |
| (a) Tents— | | | |
| One Swiss cottage tent .. .. | 500 | | |
| One do. .. .. | 430 | | |
| One Bechoba tent .. .. .. | 140 | | |
| Thirteen servants' pals .. .. | 740 | | |
| Two necessary tents .. .. | 70 | | |
| Carriage .. .. .. | 200 | 2,080 | |
| (b) Instruments— | | | |
| Two theodolites at Rs. 600 .. | 1,200 | | |
| Two levels at Rs. 400 .. .. | 800 | | |
| Four levelling staves at Rs. 50 .. | 200 | | |
| Thirty-six ranging rods at Rs. 3 .. | 108 | | |
| Four measuring chains at 10 .. | 40 | | |
| Other items of plant .. .. | 1,000 | | |
| | 3,348 | | |
| *Deduct*—75 per cent. on value of stores returned. | 2,511 | 837 | 2,917 |
| Carried over .. | .. | .. | 7,717 |

| | RS. | RS. | RS. |
|---|---|---|---|
| Brought forward .. | .. | .. | 7,717 |
| *Establishment—* | | | |
| Estimated for four months— | | | |
| Engineer-in-Chief (three months) .. | 5,430 | | |
| Personal Assistant .. .. .. | 2,400 | | |
| Six clerks .. .. .. .. | 630 | | |
| Two draftsmen .. .. .. | 240 | | |
| Two tracers .. .. .. | 113 | | |
| Eleven menials .. .. .. | 245 | | |
| Travelling allowances .. .. | 359 | | |
| Office expenses .. .. .. | 150 | | |
| Half debited to Madura-Pamban Railway .. .. .. RS. 4,784 | 9,567 | | |
| Amount debited to 1st division. 2,392 | 7,176 | | |
| Cost for three months .. .. | 2,391 | | |
| Proportionate for four months .. | .. | 3,188 | |
| *Field Establishment—* | | | |
| One Engineer at Rs. 700 × 4 months .. | 2,800 | | |
| One Engineer at Rs. 500 × 4 do. .. | 2,000 | | |
| Two Surveyors at Rs. 150 × 4 months .. | 1,200 | | |
| One clerk at Rs. 40 × 4 months .. | 160 | | |
| One draftsman at Rs. 45 × 4 months .. | 180 | | |
| One Apothecary at Rs. 50 × 4 months .. | 200 | | |
| Forty lascars at Rs. 8 × 40 × 4 months. | 1,280 | | |
| Travelling allowances, Rs. 320×4 months. | 1,280 | | |
| Contingencies .. .. .. | 1,500 | 10,600 | 13,788 |
| Total, 3rd Division .. | .. | .. | 21,505 |

**Detailed** Estimate for re-aligning and staking out the 2nd or Ghât Division, miles 48 to 72.

| | Rs. | Rs. | Rs. |
|---|---|---|---|
| *Survey Expenses—* | | | |
| Clearing jungle at Rs. 300 × 24 miles .. | 7,200 | | |
| Centre line pegs, centre line stones, bench marks, lockspitting, &c., Rs. 200 × 24 miles. | 4,800 | | |
| | | | 12,000 |
| *Plant—* | | | |
| Tents— | | | |
| One 14′ sq. Swiss cottage tent at Rs. 500. | 500 | | |
| Two 12′ sq. do. at Rs. 430. | 860 | | |
| One 12′ sq. Hill tent at Rs. 320 | 320 | | |
| Sixteen servants' pals.. .. .. | 935 | | |
| Three necessary tents at Rs. 40 .. | 120 | | |
| | | 2,735 | |
| Instruments— | | | |
| Two theodolites at Rs. 600 .. .. | 1,200 | | |
| Three levels at Rs. 400 .. .. | 1,200 | | |
| Six levelling staves at Rs. 50 .. .. | 300 | | |
| Sixty ranging rods at Rs. 3 .. .. | 180 | | |
| Four measuring chains at Rs. 10 .. | 40 | | |
| Other items of plant .. .. | 2,000 | | |
| | 4,920 | | |
| *Less*—60 per cent. on value of stores returned. | 2,952 | 1,968 | |
| | | | 4,703 |
| *Establishment—* | | | |
| Direction— | | | |
| One Engineer-in-Chief at 1,350 × ½ .. | 675 | | |
| One Personal Assistant at 800 × ½ .. | 400 | | |
| One Chief clerk at 200 × ½ .. . | 100 | | |
| Twelve clerks at 430 full .. .. | 430 | | |
| Two clerks at 60 × ½ .. .. | 30 | | |
| One attender at 15 × ½ .. .. | 7½ | | |
| One moochee at 10 × ½ .. .. | 5 | | |
| Seventeen menials at 128 × ½ .. | 64 | | |
| One draftsman at 100 × ½ .. | 50 | | |
| Two draftsmen at 50 × 2 .. | 100 | | |
| Four tracers at 70 full .. | 70 | | |
| Office expenses at 100 full .. | 100 | | |
| Travelling allowances at 100 full .. | 100 | | |
| Exchange compensation allowance at 100 × ½ | 50 | | |
| Pension and leave contribution at 364 × ½ | 182 | | |
| Total for one month .. | 2,363½ | | |
| For 12 months = 2,363½ × 12 . | 28,362 | | |
| Carried over .. | 28,362 | .. | 16,703 |

| | Rs. | Rs. | Rs. |
|---|---|---|---|
| Brought forward .. | 28,362 | .. | 16,703 |
| *Establishment*—cont. | | | |
| *Lump sum estimates—* | | | |
| Instruments .. .. | 700 | | |
| Office accommodation .. .. | 8.750 | | |
| Government Audit and Control .. | 8,240 | | |
| Total for one year .. | 46,052 | | |
| Proportionate charge for 24 miles— | | | |
| Ghât survey for 1st year $\frac{24}{103}$ × 46,100 = | 10,742 | | |
| ,, ,, 2nd year $\frac{12}{103}$ × 46,100 = | 5,371 | | |
| | | .. | 16,113 |
| Note.—In the second year only 12 miles will be under survey; the remaining portion will be under construction and debit for direction of that portion will be to Construction estimate. | | | |
| *Audit and Accounts—* | | | |
| Four clerks under Rs. 100 at Rs. 90 for two years. | 2,160 | .. | 2,160 |
| *Field Establishment—* | | | |
| 1 Executive Engineer 18 months at 1,000 .. | 18,000 | | |
| 6 ,, at 800 .. | 4,800 | | |
| 2 Assistant Engineers 18 ,, at 625 × 2. | 22,500 | | |
| 6 ,, at 500 × 2. | 6,000 | | |
| 1 Surveyor .. 18 ,, at 250 .. | 4,500 | | |
| 1 Do. .. 18 ,, at 200 .. | 3,600 | | |
| 1 Apothecary. 18 ,, at 75 .. | 1,350 | | |
| 1 clerk 18 ,, at 75 .. | 1,350 | | |
| 6 ,, at 50 .. | 300 | | |
| 1 draftsman. 18 ,, at 75 .. | 1,350 | | |
| 6 ,, at 60 .. | 360 | | |
| 60 lascars .. 18 ,, at 10 .. | 10,800 | | |
| 20 Do. .. 6 ,, at 8 .. | 960 | | |
| Travelling allowance, Rs. 900 × 18 months. | 16,200 | | |
| Contingencies .. .. .. | 5,000 | .. | 97,070 |
| Total, 2nd Division .. | | | 1,32,046 |

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## *Note on the Tinnevelly-Quilon Survey Estimate, by Mr. A. Bewley, Deputy Consulting Engineer for Railways, Madras, dated 14th March 1899.*

From the abstract of this estimate it is seen that the average rate of cost per mile in the three divisions under estimate is as follows:—

| | |
|---|---|
| Division No. 1, average cost per mile ... ... ... | Rs. 304 |
| ,, 2, ,, ,, ... ... ... | ,, 5,500 |
| ,, 3, ,, ,, ... ... ... | ,, 694 |

and that the average mileage cost of the whole is Rs. 1,632.

*No. I Division.*—As regards the cost per mile Rs. 304, it may be passed by without remark, as it calls for none.

*No. II Division.*—On the other hand, this figure Rs. 5,500 requires explanation. It appears that the two chief causes of this very high average cost are to be found in—

(*a*) The unusual length of time that the survey and location of the 24 miles of ghât will require. This is fixed in the estimate at two years, or a mile per month.

(*b*) The salaries that it has been decided to offer — are somewhat high for this class of work under ordinary circumstances in India and wisely so if it will ensure the utmost that can be done to obtain the best line.

To turn to details—

*A. Survey expenses*—amount to Rs. 12,000. Under this head the item "Clearing jungle" is naturally a large one on ghât work: and Rs. 300 per mile is probably not an exaggerated estimate.

*B. Field establishment*—amounts to Rs. 97,070, *i.e.*, 73 per cent. of the whole ghât estimate. This is mainly made up of the salaries of one Executive Engineer at Rs. 1,000 and of two Assistant Engineers at Rs. 625 and Rs. 500 for the first 18 months. Apparently, with a view to a saving, the above salaries are to be reduced to Rs. 800 and Rs. 500, respectively. This arrangement seems ill-judged and impracticable.

*C. Establishment*—amounts to Rs. 16,113. The chief charges swelling the cost of this item are the salaries of the Engineer-in-Chief and his Personal Assistant at Rs. 1,350 and Rs. 800, respectively. These salaries are divided in mileage proportions between the survey work and the construction for the last year's work on the quite arbitrary assumption that "in the second year only 12 miles will be under survey; the remaining will be under construction." It may be so; but it is equally possible that it may not. The other items call for no remark.

*No. III division*—amounts to Rs. 694 per mile. This figure, though high, is not under the circumstances sufficiently so to call for detailed explanation, beyond the statement that here again the item "field establishment" is large, being 50 per cent. of the whole survey cost of the division. The length of time provided for is four months.

In general, the estimate has been quite carefully framed, and all reasonable credits made.

The actual cost of Mr. Shadbolt's survey and location, as ascertained from the Examiner, Public Works Accounts, was 701·2 rupees per mile. In the present estimate Mr. Michell estimates the cost of finally locating a line suitable for the commencement of construction work at Rs. 1,632 per mile.

Mr. Shadbolt's line was laid down in 1895. It is therefore almost a matter of certainty that little of the work then done now remains; and that the location will have to be done afresh. On this assumption it will be seen that the provision for re-locating the line in the present estimate made for the I and III divisions, viz., Rs. 304 and Rs. 694, respectively, does not call for further remark.

As regards the II or ghât division, it must be remembered that the survey of Mr. Shadbolt was limited in its object to finding a possible and financially practicable route across the ghât. It consisted merely of a string of straight lines marked on the ground by pegs at every 100 feet, daghbeled, and with but three pillars per mile. Benchmarks, also, were but three per mile, which would not be liberal for even a line in the plains. Mr. Shadbolt's estimate for this part of the location was Rs. 115 per mile; and since the total of his estimate and his total outlay only differed by a few rupees (Rs. 75), his estimate-figures and his actuals may, in this instance, be assumed to be identical.

From Mr. Shadbolt's description of his method of locating, it would appear that he did not lay down any curves on the ground; and that consequently the least possible quantity of jungle clearing was done.

Mr. Michell's estimate now under notice provides for very much more than this, in fact for a line "fit for the commencement of construction."

He anticipates that more or less important alterations of Mr. Shadbolt's line will be necessary involving the running of trial lines; and speaks of the first season being devoted to "determining the position of the best line," which is then to be laid down completely on the ground, and extensive clearing of jungle made. Mr. Michell's provision under this head is equivalent to the cost of a force of 800 coolies (at 6 annas each) for a day per mile over the whole line; and the cost of putting his line down on the ground would in the ghât division be naturally greater than the average for the whole line which is Rs. 200 per mile.

It will thus be seen that the two surveys under notice differ widely in character. Mr. Shadbolt's estimate (and actual outlay) represents the minimum cost requisite to ascertain the bare possibility of a financially practicable line, while that of Mr. Michell, now submitted for sanction, provides for the expense of getting the best possible line either by minor alterations of that of Mr. Shadbolt, or if necessary in places by breaking entirely new ground.

Order—No. 534 Ry., dated 5th May 1899.

The Government of India will be addressed.

[Here enter No. 535 Ry., dated 5th May 1899.]

(True Extract.)

Francis J. E. Spring,
Joint Secretary.

To the Agent, South Indian Railway.
,, the Consulting Engineer for Railways.

Exd. Shaik Karim.

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## 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 correspondence ending with your letter, No. 0102 A.R., dated the 16th February 1899, I am directed to forward a copy of this Government's Proceedings, No. 534 Ry., dated the 5th May 1899, containing, on page 2, a letter No. 188, dated the 28th February 1899, from the Agent, South Indian Railway, giving cover to an estimate, amounting to Rs. 1,68,148, for finally staking out the Travancore Branch, fit for the commencement of construction. The estimate which is an unusually high one, but which it does not seem possible to materially reduce, has been reviewed in a note prepared in the office of the Consulting Engineer for Railways, Madras, which will be found in the accompanying Proceedings.

2. As sanction has now been received for the commencement of work upon the branch the outlay will be met from the construction grant and the cost of much of the staff will doubtless be transferred to construction, – for example the Engineer supervising the summit tunnel will be able to direct his assistant on the survey, — and so the survey estimate will be reduced. Meanwhile, the estimate being necessary for audit purposes, I am instructed to recommend that it be sanctioned as it stands.

I have the honour to be,
Sir,
Your most obedient servant,
Francis J. E. Spring,
Joint Secretary.

Ootacamund,
5th May 1899.

*Documents accompanying.*
Proceedings referred to.

Exd. Shaik Karim.

RAILWAY.

# Government {1899} of Madras.

## PUBLIC WORKS.

| | | |
|---|---|---|
| *Recd.* | 1899. | *Enclosures* |
| *Regd.* | | *Spare copies* |

## Letter, No. 535 Ry., 5th May 1899.

## MAY.

**Travancore Branch of the South Indian Railway**

Forwarding, for sanction, copy of Proceedings embodying the South Indian Railway Company's estimate for the —.

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Form No. (2).

10 Abstract

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

G. O. No. 386 Ry., dated 7th April 1899.

G. O. No. 277-78 Ry., dated 9th March 1899.

G. O. No. 293 Ry. dated 15th March 1899.

Letter from the Agent, South Indian Railway No. 353, dated 17th April 1899, to the Consulting Engineer for Railways, Madras.

Madura-Pamban Railway.

With reference to my letters No. 184 of 27th February 1898 and No. 284 of 30th March 1899, I have the honour to inform you that the re-surveying and re-staking out of this line are far advanced. The field work of section No. 2 Paramakudi to Toni Torai has been completed and the preparation of the land plans is in progress. On section No. 1 from Madura to Paramakudi the field work is complete and the survey of the branch to Sivaganga is now being undertaken. The plan and section and the land plans will all be ready by about the middle of May for submission to Government.

The sanction for survey work on No. 1 section expires in May and and for No. 2 section at the end of this month, so that unless funds are allotted for construction purposes, the staff I have been at so much trouble to collect will have to be dispensed with. It is impossible by the end of May to make the working drawings or the bridges, etc., and to submit the revised detailed estimate for the construction of the line, these must follow, but if funds are allotted for construction ~~next~~ work the staff now employed can be retained and arrangements made to start collection of materials, to carry out preliminary work necessary to construction, and to start earthwork on waste lands. I have therefore to request that you will urge as far as you can that I may be put in funds for the commencement of work.

Order thereon:-No. 452 Ry., dated 21st April 1899.

The Government of India will be addressed.

Letter to the Secretary to the Government of India, Public Works Department, No. 453 Ry., dated the 21st April 1899.

In continuation of my letter No. 293 Ry., dated 15th March 1899, I am directed to forward, herewith copy of a letter No. 353, dated 17th April 1899 from the Agent, South Indian Railway, requesting to be put in funds for the commencement of work on the Madura-Pamban Railway.

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Read also:-

Telegram from the Government of India, Public Works Department, No740 R.C., dated 24th April 1899.

My letter numbered and dated as follows:-650 R.C., 14th instant Secretary of State wires 21st instant begins your telegram of 14th instant, Madura-Paumban and Tinnevelly-Quilon Railways you may commence work at once ends grants of 10 lacs Madura-Pamban and 7 lacs Tinnevelly-Quilon Railways are given.

Telegram to the Agent, South Indian Railway, No. 2/C, dated 25th April 1899.

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Letter from the Government of India, Public Works Department, No. 96 A.R., dated 3rd May 1899.

With reference to your letter No. 453 Railway, dated 21st April 1899 and in confirmation of Government of India, Public Works Department, telegram No. 740 R.C., dated 24th idem, I am directed to convey the sanction of the Government of India to the following allotments to meet Capital outlay on the Madura-Pamban and Tinnevelly Quilon Railways during the current financial year.

| | |
|---|---|
| Madura-Pamban Railway ... | ₨. 10,00,000 |
| Tinnevelly-Quilon Railway ... | " 7,00,000 |

2. I am to add that the grant of ₨. 11,000 given in Budget orders No. $\frac{10\text{ A.R.}}{\text{B.O.}}$ dated the 21st March 1899 for the Madura-Pamban Railway Survey is hereby withdrawn Any outlay incurred on this account should be charged against the allotment now made for the construction of the line.

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Order thereon:-No. 580 Ry., dated 15th May 1899.

Communicated to the Agent, South Indian Railway and the Examiner, Guaranteed Railway Accounts for information and guidance.

(True Extract)

(Signed) Francis J.E. Spring,

Joint Secretary.

To,

The Agent, South Indian Railway.
" Examiner, Guaranteed Railway Accounts.
" Consulting Engineer for Railways.

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URGENT. E R's C No called for on 31/5

No. 500

South Indian Railway Co., Ld.,
AGENT'S OFFICE,
TRICHINOPOLY, 29th May 1899.

From
The Ag AGENT,
SOUTH INDIAN RAILWAY,

2829
2.6.99

To
The CONSULTING ENGINEER FOR RAILWAYS,
~~MADRAS~~.
Ootacamund

[illegible] H

Sir,

With reference to Government Order No. 580 Ry, dated 15th May 1899, I have the honor to forward the Budget Estimates of the Travancore Branch for the years 1898-99 and 1899-1900, accompanied by the Capital, Establishment Rolls.

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

M.H. Spalding.
Ag: Agent.

Enclosure by book post

11 [illegible]

**URGENT.** Wd. C. No called for on 31/5

No. 501

South Indian Railway Co., Ld.,
AGENT'S OFFICE,
TRICHINOPOLY, 29th May 1899.

From
The Ag AGENT,
SOUTH INDIAN RAILWAY,

2828
2.6.99

To
The CONSULTING ENGINEER FOR RAILWAYS,
~~MADRAS.~~
Ootacamund

Sir,

Flag H

With reference to Government Order No. 580 Ry dated 15th May 1899, I have the honor to forward the Budget Estimates of the Pamban Branch for the years 1898-99 and 1899-1900, accompanied by the Capital Establishment Rolls.

I have the honor to be,
Sir,
Your most obedient Servant
M H Spalding
Ag: Agent.

Enclosure by book post }

12 Quote

Met

From
The Agent,
South Indian Railway,
Trichinopoly.
To
The Consulting Engineer for
Railways,
Madras.
Dated } No. 18
Received
Enclosure.

URGENT.

No. 514

**South Indian Railway Co., Ld.,**
AGENT'S OFFICE,
TRICHINOPOLY, 31st May 1899.

284b
3-6-99

*From*
The Ag: AGENT,
SOUTH INDIAN RAILWAY,

*To*
**The CONSULTING ENGINEER FOR RAILWAYS,**
~~MADRAS.~~
Ootacamund

**Sir,**

Referring to the Budget Estimate of the Pamban Branch forwarded with my letter No. 501 of 29th Instant I have the honor to inform you that although the Office Copy was duly scrutinized by the Officiating Chief Auditor and the Deputy Examiner of Railway Accounts, here, the fair copy was, by an oversight, forwarded to you without the requisite signatures being affixed thereto. Should it be necessary for the signatures to be added, will you kindly return the Budget for that purpose.

I have the honor to be
Sir
Your most obedient servant
W H Spalding
Ag: Agent

[illegible]

The Budget estimates were sent to Madras (C.R.) yesterday. Send these letters to D2 for necessary action.

D1

13 [illegible]

---

From
THE AGENT,
South Indian Railway,
*Trichinopoly,*
To
THE CONSULTING ENGINEER FOR
RAILWAYS,
*Madras.*
Dated }
Received } 18
No.
ENCLOSURE.

No. 575

URGENT.

South Indian Railway Co., Ld.,
AGENT'S OFFICE,

TRICHINOPOLY, 31st May 1899.

From

The Ag AGENT,
SOUTH INDIAN RAILWAY,

2848
3-6-99.

To

The CONSULTING ENGINEER FOR RAILWAYS,
~~MADRAS.~~
Ootacamund

Sir,

Referring to the Budget Estimate of the Travancore Branch forwarded with my letter No. 500 of 29th Instant, I have the honor to inform you that although the Office copy was duly scrutinised by the Offg: Chief Auditor and the Deputy Examiner of Railway Accounts, here the fair copy was by an oversight, forwarded to you without the requisite signatures being affixed thereto. Should it be necessary for the signatures to be added, will you kindly return the Budget for that purpose.

I have the honor to be
Sir
Your most obedient servant
W H Spalding
Ag: Agent

Prest

14 Quale

From
The Agent,
South Indian Railway,
Trichinopoly.
To
The Consulting Engineer for
Railways,
Madras.
Dated }
Received } 18
No.
Enclosure.

From
The Agent,
South Indian Railway,
Trichinopoly.

To
The Consulting Engineer for Railways,
Madras.

Dated
Received } 18

No.
Enclosure.

---

Form No. 21.
500—7-1-97.

2/6

Office of the Consulting Engineer for Railways,
*Madras*, 2nd June 1899.

Examiner, Railway Accounts, Madras
Regr. No. 311
2 JUN 1899
Enclosures............

No. 1731

OFFICE NOTE.

Letter from the Agent, South Indian Railway, No. 500 dated 29th May 1899, forwarded to the Examiner of Railway Accounts, for remarks.

for E. R.
31.5.99.

To E.R. for approval.
12.6.99.

6.6.99

(Get it signed)
7/6

Approve
15/6/99

EXAMINER'S REPLY.

Budget estimates are not required to be submitted to the Govt. of India in connection with grants sanctioned subsequent to the issue of budget orders.

The estimates submitted by A, showing the proposed distribution of the sanctioned grants, may be approved by E.R. and retained locally for information.

The scale of establishment will require the sanction of the Govt. of India, there being no sanctioned project estimate for the line, & may be forwarded for sanction, if the provision made is approved.

I understand that construction will only be commenced in the 1st division of the Travancore branch during the current year; and that the medical establishment for the 2nd and 3rd divisions referred to in A's No 471 dt. 18.5.99 will not all be required this year.

I cannot quite follow the scale under "Direction"; apparently items working up to a total of Rs 25,962 x 2, or Rs 51,924, represent charges common to both the Travancore and the Pamban branches, and other items are special to each branch: it would I

think

Forward for sanction [illegible] of it as is necessary, with explanation

FMS
15/6

D2 get whatever information C.R. requires from Mr Mitchell direct

FMS
15/6

x

+ Papers being dealt with - will follow
[illegible]
17/6

Ask Mr Mitchell D.O.

FMS
15/6

18

D2
Instruct Engr-in-Chief in any respect that may be necessary but do it all D.O. in intimate consultation with C.R.

FMS
16/6

think be more convenient to show the scale for the whole office and one estimate, say that for the Travancore branch, with a note against each item showing the proportions in which it was chargeable, deducting the whole amount chargeable to the Pamban branch at foot.

FGW
5/6/99

C.R

DO Sent to Mr [illegible] 17/6

D2

Deal with all these S.I.R. extension establishment matters direct, in consultation with C.R. on the following understanding.

(a) Survey establishment as already approved.

(b) Construction establishment. Ditto. or as may be reasonably modified by A. as [illegible] by actuals at which he has been able to engage men in the open market.

I am quite satisfied that Mr Mitchell is doing the best that can be done, and I want to interfere with him as little as possible, and merely to make things regular.

FMS
15/6/99

FORM No. 21.
500—7-1-97.

JBW 2/6/99

EXAMINER
Regr. No. 312
2 JUN 1899
Enclosures.........
RAILWAY ACCOUNTS, MADRAS

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,

~~Madras~~, 2nd June 1899.

No. 1730.

OFFICE NOTE.

Letter from the Agent, South Indian Railway, No. 501 dated 29th May 1899, forwarded to the Examiner of Railway Accounts, for remarks.

JHA
for E. R.
31.5.99

EXAMINER'S REPLY.

To E.R. – for disposal with the ~~budget~~ budget estimates of the Travancore Branch.

AC
12-6.99.

Please see reply to o. n. No 1731 of 2.6.99

JBW
5/6/99

CK

D – See notes on Travancore branch budget and treat this similarly.

FHS
15/6/99

Form No. 1.

No. 1983

*Madras,* 25 June 1899.

From

THE CONSULTING ENGINEER FOR RAILWAYS,
MADRAS,

To

THE ~~AGENT AND MANAGER, M. RY.~~
~~" " S. I. RY.~~
~~" " H. H. THE N. G. S. RY.~~
~~" " S. M. RY.~~
~~" ENGR.-IN-CHIEF, B. M. RY.~~
~~" MANAGER, E. C. RY.~~
" Engineer-in-chief
Pamban & Travancore ~~P. T.~~ Branches of the S I R

Jude

*Reminders.*

*Reply No.* P 17/484
*dated* 29.6.99

SIR,

I have the honor to return herewith two budget estimates of the Pamban and Travancore branches of the S. I. R received with [illegible] letters from Agent S. I. Ry No. 500 & 501 of 29th May 1899.

W
22.6.99.

*Despatched on* 23/6/99

15 Jude

Ad
27/6/99

16 P

Form No. 3.

No. P17/1184

**SOUTH INDIAN RAILWAY CO., LD.**
**PAMBAN & TRAVANCORE BRANCHES,**
ENGINEER-IN-CHIEF'S OFFICE,
*Trichinopoly* 29th June 1899.

In your reply please quote the number and date of this letter.

1899

Despd 2th

3181
17.7.99

*From,*
THE ENGINEER-IN-CHIEF,
**Pamban & Travancore Branches.**

*To,*
The Consulting Engineer for Railways
Madras.

Budget Estimates - 1899 - 1900.
Pamban and Travancore Branches.

Sir,

Adverting to your letter of the 23rd Instant I have the honor to submit the above Estimates duly revised.

I have the honor to be,
Sir,
Your Most Obedient Servant
Engineer - in - Chief.

2 enclosures
by Book post
H.P.

Form No. 33.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,

*Madras*, 3rd July 1899.

JGW 4/7/99

No. 390
4 - JUL 1899
...WAY ACCOUNTS, M...

No. 2089

OFFICE NOTE.

Letter from the ~~Agent~~, Engr-in-chg P and T Branches ~~Railway~~, No. P 17/1184, dated 29th June 1899, forwarded to the Examiner of Railway Accounts, for remarks.

HL
3/7/99
*for* E. R.

EXAMINER'S REPLY.

The two Estimates
have been back to Mr Mitchell
for recasting
FWM

E R Please see my note of 5.6.99 on your O. N. No 1731, and your marginal orders thereon.

Flag W

The establishment rates for the two branches are now in order, and may be forwarded for the sanction of the Govt. of India.

JGW
10/7/99
C. R.

[500—1-12-98.]

Form No. (2).

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Letter from the Government of India, Public Works Department, No.1234 R.C., dated 29th June 1899.

S101 K I am directed to acknowledge the receipt of your letter No.535 dated the 5th May 1899, forwarding for sanction, an estimate amounting to Rs.1,68,148 for finally staking out the Tinnevelly-Quilon Railway to make it fit for the commencement of construction.

2. In reply, I am to say that as the expenditure is to be charged to "construction" the Government of India consider that the best way to dispose of the matter will be for the Government of Madras to submit for sanction an establishment estimate for the current year under Public Works Department Code Volume III, Chapter VIII, paragraph 5, which will cover the greater part of the outlay; the remainder of the expenditure involved can be dealt with by the Government of Madras.

3. At the same time, however, I am to remark that the estimate submitted for the relocation and pegging out of this railway, which has already been surveyed, appears to the Government of India to be very excessive in proportion to the work to be done, and I am to express the hope that the Consulting Engineer will find himself able to reduce very materially both the staff which it seems proposed to employ and the time which it seems proposed to allow them to spend over the work.

---

Order thereon:-No. 795/A Railway, dated 20th July 1899.

The Consulting Engineer will do what is necessary.

(True Extract)

Joint Secretary.

Form No. 3. Care Staff SIR

L.O.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,

*Madras,* 20° July 1899

No. 2237 188

From

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS,

To

THE AGENT,

SOUTH INDIAN RAILWAY,

SIR,

When at Trichinopoly on the 19th I personally handed back to Mr. Michell his budget estimates for the Travancore and Pamban branches, with the following instructions.

Enclosures.

(a) "Direction." Make one estimate for "direction," and in the estimate show the total outlay as divided fairly between the several projects. Then, in the Budget Estimate for each separate project show a lump sum only for its Direction, referring to the general estimate.

(b) Allow in each budget for the debit to the present year's capital grant of all previous survey charges, showing the source of previous expenditure. The necessary information can be obtained from the Government Examiner.

(c) Make one budget for the Government and Native grant, total 14 lakhs, for the Travancore Branch.

(d) Submit for sanction an establishment estimate for the current year only, for each extension or project, as per Public Works Department Code Volume III Chapter VIII Paragraph 5. The

sanction

sanction of the Government of India will then be obtained for items beyond my power or that of the local Government.

(e) You need not expect the Government of India's sanction to the survey estimate contained in Madras Government Proceedings No.534 Railway, dated the 5th May 1899. The establishment estimate asked for at (d) will serve in lieu of it.

2. I must inform you that the Government of India have expressed the opinion that the cost of the relocation of the hill section of the Travancore branch and of its resurvey throughout appears to be very excessive and they hope that it may be found possible to reduce very materially both the staff proposed to be entertained and the time proposed to be spent. As construction is now sanctioned, this will doubtless be found possible.

3. The present seems a suitable occasion to suggest to you the great advantage of amalgamating under one "Engineer-in-Chief for construction," as has been done on the Madras Railway, all construction of extensions and all surveys which the South Indian Railway Company have undertaken or are likely soon to undertake. The economy in labour, in organisation, in plant, and the advantage of being able to freely utilise a large staff whenever wanted, seem to me to be too obvious to need explanation. I think it very unlikely that Mr. Michell will object to undertake the additional duty, for which he is quite as competent as he is for doing the work at present in his charge. This, if agreed to, will affect the Direction estimate, see (a) above. It scarcely seems to me to be a thing for which your Boards' prior sanction is needed, if you and I agree about it, and if Mr. Michell does not object.

I have the honour to be,

Sir,

Your most Obedient Servant.

upd 20.7.99

(Sd) Francis T. E. Spring.

Consulting Engineer.

---

~~Final Issue~~

Capital Budget Estimate – Works

Public Works Department

Capital Expenditure on Public Works not charged against Revenue

48. State Railways – Construction

Revised and Budget Estimates

of

Construction Works

on the

Pamban Branch of the South Indian Ry

for

1898-99 and 1899-1900

## Memorandum

| | Rs |
|---|---|
| Grant Sanctioned in Public Works Department Resolution No. 96 A.R. dated 3rd May 1899 . . . . | 9,58000 |
| Programme ~~approved~~ proposed | |
| Cash Outlay | 9,41,000 |
| Value of Stores to be drawn from Stock . . | 17,000 |
| Total | 9,58,000 |

Enc. No. 1 [illegible] 46 42 1899
Letter No. 897 of 4.9.99
From Agent S. I. Ry

## South Indian Railway

## Capital Revised and Budget Estimates of Construction Works on the Pamban Branch for 1898-99 and 1899-1900

### General Abstract.

| | 1 | 2 | 3 | | | 4 | | | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Main heads of Expenditure | Actuals to end of 1897-98 | Budget Grant 1898-99 | Revised Estimate 1898-99 | | | Budget Estimate 1899-1900 | | | Total probable outlay to end of 1899-1900 (Column 1 3 and 4) | Required for Lines under Construction only | |
| | | | Cash | Stores | Total | Cash | Stores | Total | | Remaining to be spent in future years | Sanctioned Estimate |
| | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs ✕ | | |
| Works and Services | | | | | | | | | | | |
| I Preliminary Expenses | 92,793 ~~[illegible]~~ ~~71,136~~ | | | | | 18784 | " | 18,784 | 1,17,577 | Estimate not prepared | do |
| II Land | | | | | | 1,60,000 | " | 1,60,000 | 1,60,000 | | |
| III Formation | | | | | | 2,50,000 | " | 2,50,000 | 2,50,000 | | |
| IV Bridge Work | | | | | | 2,60564 | 2,000 | 262,564 | 262564 | | |
| V Fencing | | | | | | 22000 | " | 22,000 | 22,000 | | |
| VI Electric Telegraph | | | | | | " | " | " | " | | |
| VII Ballast & Permanent Way | | | | | | " | " | " | " | | |
| VIII Stations and Buildings | | | | | | 50,000 | 5,000 | 55,000 | 55,000 | | |
| Total Construction Accounts | ~~71,136~~ 92,793 | | | | | 7,61,348 | 7,000 | 768,348 | 8.61,141 | | |
| IX Plant | | | | | | - | 10,000 | 10,000 | 10,000 | | |
| X Ferries &c | | | | | | " | " | " | " | | |
| XI Rolling Stock | | | | | | " | " | " | " | | |
| XII General Charges | | | | | | 1,79,652 | " | 1,79,652 | 1,79,652 | | |
| Total Expenditure on Final Heads | ~~71,136~~ 92,793 | | | | | 9,41,000 | 17000 | 9,58,000 | 1050793 | | |
| Miscellaneous advances | | | | | | " | " | " | " | | |
| Total | ~~71,136~~ 92,793 | | | | | 9.41,000 | 17,000 | 9,58000 | 1050793 | | |
| Deduct - Receipts on Capital Account | " | | | | | " | " | " | " | | |
| Grand Total Works and Services | ~~71,136~~ 92,793 | | | | | 9,41,000 | 17000 | 9,58000 | 1050793 | | |

Engineer in Chiefs Office
Trichinopoly
Dated 16th August 1899

Chas. E. Stallard
Deputy Examr. Ry. Acs 2657

~~✕ Includes Rs 92,793 past outlay incurred during 1898-99~~

T. J. Anns[illegible]
for Chief Auditor

Theo Michell
Engineer in Chief

for Ag Agent

7
~~Trial Issue~~

# Public Works Department

Capital Expenditure on Public works not
Charged against Revenue

## Capital account of Indian Railway Companies

Revised and Budget Estimates of
Stores transactions
on the
Pambau Branch,
of the South Indian State Railway
for 1898-1899 and 1899-1900

---

## Memorandum

| | Rs | |
|---|---|---|
| Grant sanctioned in Public Works Department Resolution No. 96 A.R dated 3rd May 1899 - - | 42,000 | ✓ |
| The Budget Estimate contemplates a total expenditure of Rs 59,000 as under:— | | ✓ |
| Cash outlay on Stores . . . . . . . | 49313 | ✓ |
| Expenditure in England including ex-change . . . | 9687 | ✓ |
| | 59,000 | ✓ |
| and is provided for as follows:— | | |
| Credits for stores Issues to Capital works . . . . . . . . . . . . | Rs 17,000 | ✓ |
| Credits for stores Issues to Revenue — Transfers and Sales . . . . . . " | 17,000 | ✓ |
| Balance being net Capital Grant required as above | 42000 | ✓ |

# South Indian State Railway. Details of the estimated transactions under the head "Stores" Pamban Branch.

## Revised Estimate for 1898-1899 and Budget Estimate for 1899-1900

| Particulars of debits | Revised Estimate 1898-1899 | Budget Estimate 1899-1900 |
|---|---|---|
| | Rs | Rs |
| Balance at Commencement of the year | .. | .. |
| Debits during the year - - - - | .. | |
| Local purchases— | .. | .. |
| Firewood | .. | .. |
| Oil | .. | .. |
| Coal | .. | .. |
| Timber | .. | 5000 |
| ~~Burning~~ + Miscellaneous Stores | .. | 44000 |
| Total | .. | 49,000 |
| London Stores— | | |
| For Capital works | | .. |
| Plant and Machinery | .. | .. |
| Bridgework | .. | 10000 |
| Rolling stock | .. | .. |
| Permanent way materials | .. | .. |
| Miscellaneous Stores | | .. |
| Total | .. | 10000 |
| Manufactures— | | |
| Quarrying | | |
| Brick-manufacture | .. | .. |
| Lime-manufacture | .. | .. |
| Ballast | | |
| Total | | |
| Workshop Manufactures— | | |
| Works in progress - - } | | |
| New works - - - } | .. | |
| Total debits during the year | .. | 59,000 |
| Grand total - - | .. | 59,000 |

Engineer in Chief Office }
Trichinopoly }
16 Aug 99 }

Chas E Stubbard.
Deputy Examr. Ry acct.

| Particulars of credits | Revised Estimate 1898-1899 | Budget Estimate 1899-1900 |
|---|---|---|
| | Rs | Rs |
| Credits during the year | .. | .. |
| Issues to Capital works— | | |
| Preliminary Expenses | .. | |
| Land | | |
| Formation | .. | |
| Bridge work | .. | 2000 |
| Fencing | .. | |
| Electric Telegraph | .. | .. |
| Ballast and Permanent Way | .. | .. |
| Stations and Buildings | .. | 5000 |
| Plant<br>Ferries &c | .. | 10000 |
| Rolling stock | .. | .. |
| General Charges | .. | .. |
| Total — | .. | 17,000 |
| Issues to Revenue— | .. | .. |
| Transfers and Sales — | .. | .. |
| Total Credits during the year | | 17,000 |
| Balance expected at the close of the year — | .. | 42,000 |
| Grand Total — | | 59,000 |
| Net debit or Credit to Stores transactions being Capital Grant required | | 42,000 |

Chief Auditor

W. de Mercy [illegible]
for Ag Agent

Thos. Walker
Engineer-in-Chief

# Appendix A

Statement showing details of the sums set aside for expenditure in England on the Pamban Branch of South Indian State Railway during 1899-1900

| | Rs |
|---|---|
| Probable amount of outstanding indents of the previous year | " |
| Probable amount of indents to be sent home for compliance during the year | 9467 |
| Establishment Charges payable in England | 220 |
| | 9687 |
| Deduct — Probable amount of out standing indents at the close of the year | " |
| Estimated Net Capital outlay in England | 9687 |

Trichinopoly }
16th August 1899 }

Theo. Wimbush
Engineer in Chief

R.B.

Chas E Hubbard.

Deputy Examiner Accounts

N.O.B.

J Anderson
for Chief Auditor

Pamban Branch.

Estimate of General Charges
for
1899-1900.

# Capital and Revenue.

## Estimate of General Charges of the Pamban Branch for the year 1899-1900.

| No. | Detail | Monthly Salary of Office<br>Rs | Per Mensem<br>Rs | Per Annum<br>Rs | Distribution of Charges<br>Capital<br>Rs | Revenue<br>Rs | Total<br>Rs | Proportions debitable to<br>Pamban Branch<br>Rs | Travancore Branch<br>Rs | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | Direction or General. | | | | | | | | | |
| 1 | Engineer-in-Chief ..... | 1350 | 1350 | 13500 | 13500 | | 13500 | 6750 | 6750 | For 10 months |
| 1. | Executive Engineer .... | 800 | 800 | 6400 | 6400 | „ | 6400 | 3200 | 3200 | For 8 months |
| 1. | Chief Clerk .......... | 250 | 250 | 2427 | 2427 | „ | 2427 | 1213½ | 1213½ | For 10 months nearly. |
| 1. | Clerk | 100 | 100 | 800 | 800 | „ | 800 | 800 | | For 8 months |
| 27. | Clerks, attenders Moochees . | Under Rs 100 | 785 | 6407 | 6407 | „ | 6407 | 3814 | 2593 | For 10 months nearly. |
| 1. | Draftsman ..... | 100 | 100 | 700 | 700 | „ | 700 | 350 | 350 | For 7 months |
| 4. | Draftsmen ...... | Under Rs 100 | 200 | 1800 | 1800 | „ | 1800 | 900 | 900 | For 9 months |
| 6. | Tracers ........ | do | 110 | 1066 | 1066 | „ | 1066 | 668 | 398 | For 10 months nearly. |
| 17. | Peons, Punkahmen, Sweepers, Watchmen and Water Carriers. | do | 128 | 1179 | 1179 | | 1179 | 589½ | 589½ | For 10 months nearly. |
| | Office Expenses ..... | „ | 200 | 2000 | 2000 | „ | 2000 | 1000 | 1000 | |
| | Travelling allowances ... | „ | „ | 2000 | 2000 | „ | 2000 | 1000 | 1000 | |
| | Exchange Compensation allowances | „ | 100 | 1000 | 1000 | „ | 1000 | 500 | 500 | |
| | Pension and Leave Contributions | „ | 364 | 3640 | 3640 | | 3640 | 1820 | 1820 | |
| | Office accommodation - | „ | „ | 19500 | 19500 | „ | 19500 | 9750 | 9750 | |
| | Instruments ...... | „ | „ | 1240 | 1240 | „ | 1240 | 620 | 620 | |
| | Government audit and Control | „ | „ | 16390 | 16390 | „ | 16390 | 8240 | 8150 | |
| | Provident fund Bonus ..... | „ | „ | 200 | 200 | | 200 | 100 | 100 | |
| | Total | | | 80249 | 80249 | „ | 80249 | 41315 | 38934 | |
| | Proportion debitable to Travancore Branch. | | | 38934 | 38934 | „ | 38934 | „ | 38934 | |
| | Total Direction | | | 41315 | 41315 | „ | 41315 | 41315 | ~~38934~~ | |

| No. | Detail | Monthly Salary of Office Rs | Per Mensem Rs | Per Annum Rs | Distribution of Charges Capital Rs | Revenue Rs | Total Rs. |  |
|---|---|---|---|---|---|---|---|---|
|  | Engineering |  |  |  |  |  |  |  |
|  | Engineers. |  |  |  |  |  |  |  |
| 2. | Executive Engineers | 700 | 1400 | 10010 | 10010 | - | 10010 | 1 for 8 months + 9 days + 1 for 6 months. + 6 days |
| 2. | Assistant Engineers | 500 | 1000 | 7000 | 7000 | - | 7000 |  |
|  | Upper Subordinates |  |  | 10355 | 10355 |  | 10355 |  |
| 2. | Inspectors 1st Grade | 250 | 500 | 3500 | 3500 | - | 3500 |  |
| 1 | do. | 200 | 200 | 1200 | 1200 | - | 1200 |  |
| 2 | do. 2nd Grade | 175 | 350 | 2450 | 2450 | - | 2450 | The Branch is divided into two Divisions. The Establishment for the first division is provided for 6 months and the second Division for 8 months. |
| 2 | do. | 150 | 300 | 2100 | 2100 | - | 2100 |  |
| 4 | do. 3rd Grade | 100 | 400 | 2800 | 2800 | - | 2800 |  |
|  | Lower Subordinates |  |  | 11528 | 11528 |  | 11528 |  |
| 5 | Sub Inspectors | under Rs 100 | 250 | 1700 | 1700 | - | 1700 |  |
|  | Office Establishment |  |  |  |  |  |  |  |
| 2 | Accountants | 200 | 400 | 2800 | 2800 |  | 2800 |  |
| 24 | Clerks | Under Rs 100 | 905 | 6320 | 6320 | - | 6320 |  |
| 6 | Draftsmen | do | 240 | 1680 | 1680 |  | 1680 |  |
|  | Petty Establishment. |  |  |  |  |  |  |  |
| 2 | Cashkeepers | do | 100 | 700 | 700 |  | 700 |  |
| 110 | Peons, Sweepers, Punkahmen, Water Carriers, Watchmen, Dak runners, Lascars + Cash Peons | do | 770 | 5390 | 5390 | - | 5390 |  |
| 2. | Police Guards | do | 100 | 700 | 700 |  | 700 |  |
|  | Travelling allowances |  | 1800 | 12600 | 12600 | - | 12600 |  |
|  | Office Expenses |  | 550 | 3850 | 3850 |  | 3850 |  |
|  | Exchange Compensation allowances |  | 120 | 840 | 840 | - | 840 |  |
|  | Pension + Leave Contributions |  | 37½ | 244 | 244 | - | 244 |  |
|  | Provident Fund Bonus |  | 100 | 700 | 700 | - | 700 |  |
|  | Quarters |  | " | 24200 | 24200 | - | 24200 |  |
|  | Instruments |  | " | 11258 | 11258 | - | 11258 |  |
|  | Office accommodation |  | " | 4755 | 4755 | - | 4755 |  |
|  | Electric Telegraph Rent + maintenance |  | " | 525 | 525 | - | 525 |  |
|  | Total Engineering |  |  | 107322 | 107322 | - | 107322 |  |

|  | Detail | Monthly Salary of Office | Per mensem | Per annum | Distribution of Charges |  |  | Proportion debitable to |  | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | Capital | Revenue | Total | Pamban Branch | Travancore Branch |  |
|  |  | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs |  |
|  | Stores |  |  |  |  |  |  |  |  |  |
|  | Chief Storekeeper | 350 | 350 | 2450 | 2450 | " | 2450 | 1225 | 1225 | For 7 months |
| 1 | Depot Store Keeper | 100 | 100 | 700 | 700 | " | 700 | 350 | 350 | —do— |
| 5. | Divisional Storekeepers | 35 | 175 | 1260 | 1260 | " | 1260 | 490 | 770 | For 7+9 months |
| 4. | Sub Divisional Storekeepers | 30 | 120 | 840 | 840 | " | 840 | 420 | 420 | For 7 months |
|  | Office Establishment. |  |  |  |  |  |  |  |  |  |
| 1 | Accountant | 200 | 200 | 1400 | 1400 |  | 1400 | 700 | 700 | For 7 months |
| 8. | Clerks and Checkers | under Rs 100 | 385 | 2695 | 2695 | " | 2695 | 1347 | 1348 | For 7 months |
|  | Petty Establishment |  |  |  |  |  |  |  |  |  |
| 34 | Peons, Punkahwallahs, Water Carriers ~~watchmen and sweepers~~ | do | 588 | 4624 | 4624 | " | 4624 | 2639 | 1985 | For 7+9 months. |
|  | Traveling allowances | " | 182 | 1595 | 1595 | " | 1595 | 640 | 955 |  |
|  | Hill allowances | " | 30 | 210 | 210 | " | 210 | " | 210 |  |
|  | Office Expenses | " | 140 | 1180 | 1180 | " | 1180 | 450 | 730 |  |
|  | Quarters | " | " | 3800 | 3800 | " | 3800 | 1400 | 2400 |  |
|  | Office accommodation | " | " | 3500 | 3500 | " | 3500 | 1300 | 2200 |  |
|  | Total |  |  | 24254 | 24254 | " | 24254 | 10961 | 13293 |  |
|  | Deduct proportion debitable to the Travancore Branch. |  |  | 13293 | 13293 | " | 13293 | " | 13293 |  |
|  | Total stores |  |  | 10961 | 10961 | " | 10961 | 10961 | ~~13293~~ |  |
|  | Audit and accounts. |  |  |  |  |  |  |  |  |  |
| 1. | Supervising Accountant | 400 | 400 | 2800 | 2800 | " | 2800 | 1400 | 1400 |  |
| 1. | Head Accountant | 330 | 330 | 2310 | 2310 | " | 2310 | 1155 | 1155 |  |
| 1 | Accountant | 220 | 220 | 1540 | 1540 | " | 1540 | 770 | 770 |  |
| 2 | Accounts Clerks | 125 | 250 | 2000 | 2000 | " | 2000 | 1000 | 1000 |  |
| 30 | Clerks | under Rs 100 | 857 | 7715 | 7715 | " | 7715 | 3857 | 3858 |  |
| 4. | Peons & Punkah Pullers | do | 43 | 300 | 300 | " | 300 | 150 | 150 |  |
|  | ~~Local + other allowances~~ ~~Travelling~~ allowances |  | 60 | 540 | 540 | " | 540 | 270 | 270 |  |
|  | Office Expenses |  | 100 | 900 | 900 | " | 900 | 450 | 450 |  |
|  | Pension Contribution |  | 118 5/7 | 831 | 831 | " | 831 | 416 | 415 |  |
|  | Office accommodation |  |  | 1914 | 1914 | " | 1914 | 957 | 957 |  |
|  | Provident Fund Bonus |  |  | 150 | 150 | " | 150 | 75 | 75 |  |
|  | Total |  |  | 21,000 | 21,000 | " | 21,000 | 10500 | 10500 |  |
|  | Deduct proportion debitable to Travancore Branch |  |  | 10500 | 10,500 | " | 10500 | " | 10,500 |  |
|  | Total audit and accounts |  |  | 10500 | 10500 | " | 10500 | 10500 | ~~10500~~ |  |

| No. | Details | Monthly Salary of Office Rs | Per Mensem Rs | Per Annum Rs | Distribution of Charges |  |  | Remarks |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | Capital Rs | Revenue Rs | Total Rs |  |
|  | Medical and Sanitation |  |  |  |  |  |  |  |
| 1 | Medical Officer | under Rs100 | 50 | 400 | 400 | " | 400 | For 8 months. Payment to District Medical officer. Madura. |
| 4 | Apothecaries | do | 200 | 1400 | 1400 | " | 1400 |  |
| 4 | Compounders | do | 60 | 420 | 420 | " | 420 |  |
| 16 | Peons, watchmen, watermen and sweepers | do | 112 | 784 | 784 | " | 784 | The Divisional establishment is provided for 6 and 8 months respectively. |
|  | Traveling allowances | " | 80 | 560 | 560 | " | 560 |  |
|  | Office Expenses | " | 20 | 140 | 140 | " | 140 |  |
|  | Quarters |  | " | 1000 | 1000 | " | 1000 |  |
|  | Office accommadation | " | " | 2350 | 2350 | " | 2350 |  |
|  | Instruments |  |  | 800 | 800 | " | 800 |  |
|  | ~~Medicines~~ |  |  | 1700 | 1700 | " | 1700 |  |
|  | Total Medical + Sanitation |  |  | 9554 | 9554 | " | 9554 |  |
|  | Total General Charges |  |  | 179652 | 179652 | " | 179652 |  |

Engineer-in-Chief's Office
Trichinopoly.
16th August 1899

Thos [illegible]
Sd Engineer-in-Chief.

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Not to be sent

Pamban Branch

Schedule A

Budget Estimate of General Charges
for
1899 - 1900

# Capital and Revenue

## Schedule A. Budget Estimate of General Charges of the Pamban Branch for the year 1899-1900

| Number 1898-99 | Number 1899-1900 | Detail | Monthly Salary of Office | Revised Estimate 1898-1899 Per Mensem | Revised Estimate 1898-1899 Per Annum | Distribution of Charges Capital | Distribution of Charges Revenue | Distribution of Charges Total | Budget Estimate 1899-1900 Per Mensem | Budget Estimate 1899-1900 Per Annum | Distribution of Charges Capital | Distribution of Charges Revenue | Distribution of Charges Total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | |
| | | Direction or General | | | | | | | | | | | | |
| | | Proportion debitable to Pamban Branch | | | | | | | | 41,315 | 41315 | . | 41,315 | For details see General Estimate |
| | | Engineering | | | | | | | | | | | | |
| | | Engineers | | | | | | | | | | | | |
| | 2 | Executive Engineers | 700 | | | | | | 1400 | 10010 | 10010 | " | 10010 | 1 for 8 months & 9 days and 1 for 6 months & 6 days |
| | 2 | Assistant Engineers | 500 | | | | | | 1000 | 7000 | 7000 | - | 7000 | |
| | | Upper Subordinates | | | | | | | | | | | | |
| | 2 | Inspectors 1st Grade | 250 | | | | | | 500 | 3500 | 3500 | . | 3500 | |
| | 1 | – do – | 200 | | | | | | 200 | 1200 | 1200 | . | 1200 | |
| | 2 | do 2nd grade | 175 | | | | | | 350 | 2450 | 2450 | | 2450 | This branch is divided into two Divisions. The Establishment for the first Division is provided for 6 months and the second Division for 8 months |
| | 2 | — ditto — | 150 | | | | | | 300 | 2100 | 2100 | | 2100 | |
| | 4 | do 3rd Grade | 100 | | | | | | 400 | 2800 | 2800 | | 2800 | |
| | | Lower Subordinates | | | | | | | | | | | | |
| | 5 | Sub Inspectors | Under Rs 100 | | | | | | 250 | 1700 | 1700 | | 1700 | |
| | | Office Establishment | | | | | | | | | | | | |
| | 2 | Accountants | 200 | | | | | | 400 | 2800 | 2800 | . | 2800 | |
| | 27 | Clerks | Under Rs 100 | | | | | | 905 | 6320 | 6320 | | 6320 | |
| | 6 | Draftsmen | ditto | | | | | | 240 | 1680 | 1680 | - | 1680 | |
| | | Petty Establishment | | | | | | | | | | | | |
| | 2 | Cashiers | Under Rs 100 | | | | | | 100 | 700 | 700 | . | 700 | |
| | 110 | Peons, Sweepers, Punkahmen, Water-Carrier, watchmen, Dakrunners Lascars, and Cash peons. | do | | | | | | 770 | 5390 | 5390 | . | 5390 | |
| | 2 | Police guards | do | | | | | | 100 | 700 | 700 | . | 700 | |
| | | Travelling allowances | | | | | | | 1800 | 12600 | 12600 | . | 12600 | |
| | | Office Expenses | | | | | | | 550 | 3850 | 3850 | . | 3850 | |
| | | Exchange Compensation allowances | | | | | | | 120 | 840 | 840 | | 840 | |
| | | Pension and Leave contributions | | | | | | | 37½ | 244 | 244 | . | 244 | |
| | | Provident Fund Bonus | | | | | | | 100 | 700 | 700 | . | 700 | |
| | | Quarters | | | | | | | | 24,200 | 24200 | . | 24200 | |
| | | Instruments | | | | | | | | 11258 | 11258 | . | 11258 | |
| | | Office Accommodation | | | | | | | | 4755 | 4755 | . | 4755 | |
| | | Electric Telegraph rent & maintenance | | | | | | | | 525 | 525 | . | 525 | |
| | | Total Engineering | | | | | | | | 107,322 | 107322 | - | 107322 | |
| | | Stores proportion debitable to Pamban Branch | | | | | | | | 10961 | 10961 | - | 10961 | For details see General Estimate |
| | | Audit and Accounts | | | | | | | | | | | | |
| | | Proportion debitable to Pamban Branch | | | | | | | | 10500 | 10500 | - | 10500 | For details see General Estimate |

| Number |  | Details | Monthly salary of Office | Revised Estimate 1898-1899 |  |  |  |  | Budget Estimate 1899-1900 |  |  |  |  | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | Per Mensem | Per Annum | Distribution of Charges |  |  | Per Mensem | Per Annum | Distribution of Charges |  |  |  |
| 1898-1899 | 1899-1900 |  |  |  |  | Capital | Revenue | Total |  |  | Capital | Revenue | Total |  |
|  |  |  | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs |  |
|  |  | Medical and Sanitation |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 | Medical Officer | Under Rs 100 |  |  |  |  |  | 50 | 400 | 400 | - | 400 | For 8 months Payment to District Medical Officer Madura |
|  | 4 | Apothecaries | do |  |  |  |  |  | 200 | 1400 | 1400 | - | 1400 |  |
|  | 4 | Compounders | do |  |  |  |  |  | 60 | 420 | 420 | - | 420 |  |
|  | 16 | Peons, Watchmen, Watermen, & Sweepers | do |  |  |  |  |  | 112 | 784 | 784 |  | 784 |  |
|  | 1 | Travelling Allowances |  |  |  |  |  |  | 80 | 560 | 560 | - | 560 | The Divisional |
|  |  | Office Expenses |  |  |  |  |  |  | 20 | 140 | 140 | - | 140 | Establishment is |
|  |  | Quarters |  |  |  |  |  |  |  | 1000 | 1000 | - | 1000 | provided for 6 and |
|  | 6 | Office accommodation |  |  |  |  |  |  |  | 2350 | 2350 | - | 2350 | 8 months respectively |
|  | 2 | Instruments |  |  |  |  |  |  |  | 800 | 800 | - | 800 |  |
|  | 4 | Medicines |  |  |  |  |  |  |  | 1700 | 1700 | - | 1700 |  |
|  |  | Total Medical and Sanitation |  |  |  |  |  |  |  | 9554 | 9554 | - | 9554 |  |
|  |  | Total General Charges |  |  |  |  |  |  |  | 179,652 | 179,652 |  | 179,652 |  |

Engr.-in-Chief's Office
Trichinopoly
16th August 99

Engineer-in-Chief

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**URGENT.**

No. 897

South Indian Railway Co., Ld.,
AGENT'S OFFICE,
TRICHINOPOLY, 4th September 1899.

CONSULTING ENGINEER FOR RAILWAYS
RECEIVED
-5 SEP. 1899
MADRAS.

From
The Ag. AGENT,
SOUTH INDIAN RAILWAY,

To
The CONSULTING ENGINEER FOR RAILWAYS,
MADRAS.

Sir,

In compliance with the instructions contained in your letter No. 2237 of 20th July 1899 and in substitution of the accompaniments to my letter No. 501 of 29th May 1899 I have the honor to forward the Budget Estimate of the Pamban Branch for the year 1899-1900 and shall be glad to receive early sanction thereto:-

Accompanying the Budget are the following:-

(1) Details of Survey Establishment.
(2) Schedule A—, Budget Estimate of General charges.
(3) Estimate of General Charges common to both the Pamban and Travancore Branches.

I have the honor to be,
Sir,
Your most obedient servant.

for Acting Agent.

5 Enclosures by book post

19

467
5-9-99

From
The Agent,
South Indian Railway,
*Trichinopoly.*

To
The Consulting Engineer for
Railways,
*Madras.*

Dated } 18
Received }

No.
Enclosure.

1899-1900

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A +

Pamban Branch

Schedule A

Budget Estimate of General Charges

for

1899 - 1900

23

## Capital and Revenue

## Schedule A Budget Estimate of General charges of the Pamban Branch for the year 1899-1900

| m- 1899-1900 | Detail. | Monthly salary of Office | Revised Estimate 1898-99 |  |  |  |  | Budget Estimate 1899-1900 |  |  |  |  | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | Per mensem | Per annum | Distribution of charges |  |  | Per mensem | Per annum | Distribution of charges |  |  |  |
|  |  |  |  |  | Capital | Revenue | Total |  |  | Capital | Revenue | Total |  |
|  |  | R | R | R | R | R | R | R | R | R | R | R |  |
|  | Direction or General |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Proportion debitable to Pamban Bch. |  |  |  |  |  |  |  | 41,315 | 41,315 | " | 41,315 | For details see Genl. Estᵃ. |
|  | Engineering Department |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Executive Engineers | 700 |  |  |  |  |  | 1,400 | 10,010 | 10,010 | " | 10,010 | 1 for 8 months + 9 days + 1 for 6 months + 6 days. |
| 2 | Asstt: Engineers | 500 |  |  |  |  |  | 1,000 | 7,000 | 7,000 | " | 7,000 |  |
|  | Total Engineers |  |  |  |  |  |  |  | 17,010 | 17,010 |  | 17,010 |  |
|  | Subordinates |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Inspectors 1st grade | 250 |  |  |  |  |  | 500 | 3,500 | 3,500 | " | 3,500 |  |
| 1 | do | 200 |  |  |  |  |  | 200 | 1,200 | 1,200 | " | 1,200 |  |
| 2 | do 2d grade | 175 |  |  |  |  |  | 350 | 2,450 | 2,450 | " | 2,450 | The branch is divided into two divisions. The establishment for the first division is provided for 6 months and the second division for 8 months. |
| 2 | do do | 150 |  |  |  |  |  | 300 | 2,100 | 2,100 | " | 2,100 |  |
| 4 | do 3d grade | 100 |  |  |  |  |  | 400 | 2,800 | 2,800 | " | 2,800 |  |
| 5 | Sub Inspectors Under Rs | 100 |  |  |  |  |  | 250 | 1,700 | 1,700 | " | 1,700 |  |
|  | Total Subordinates |  |  |  |  |  |  |  | 13,750 | 13,750 | " | 13,750 | #17 |
|  | 18 # | 6 |  |  |  |  |  |  |  |  |  |  |  |
|  | Office Establishment |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Accountants | 200 | . | . | . | . | . | 400 | 2,800 | 2,800 | " | 2,800 |  |
| 27 | Clerks | Under Rs 100 |  |  |  |  |  | 905 | 6,320 | 6,320 | " | 6,320 |  |
| 6 | Draftsmen | do |  |  |  |  |  | 240 | 1,680 | 1,680 | " | 1,680 |  |
| 2 | Cashiers | do |  |  |  |  |  | 100 | 700 | 700 | " | 700 |  |
| 110 | Peons, Sweepers, punkahmen, water-carriers, watchmen, dâk runners, Lascars and cash peons | do |  |  |  |  |  | 770 | 5,390 | 5,390 | " | 5,390 |  |
| 2 | Police guards | do |  |  |  |  |  | 100 | 700 | 700 | " | 700 |  |
|  | Total |  |  |  |  |  |  |  | 17,590 | 17,590 | " | 17,590 |  |
|  | Exchange compensation allowances. |  |  |  |  |  |  | 120 | 840 | 840 | " | 840 |  |
|  | Pension and leave contributions |  |  |  |  |  |  | 37½ | 244 | 244 | " | 244 |  |
|  | Provident Fund bonus |  |  |  |  |  |  | 100 | 700 | 700 | " | 700 |  |
|  | Travelling allowances |  |  |  |  |  |  | 1,800 | 12,600 | 12,600 | " | 12,600 |  |
|  | Quarters |  |  |  |  |  |  |  | 24,200 | 24,200 | " | 24,200 |  |
|  | Office accommodation |  |  |  |  |  |  |  | 4,755 | 4,755 | " | 4,755 |  |
|  | Instruments |  |  |  |  |  |  |  | 11,258 | 11,258 | " | 11,258 |  |
|  | Office expenses |  |  |  |  |  |  | 560 | 3,850 | 3,850 | " | 3,850 |  |
|  | Electric telegraph, rent + maintenance |  |  |  |  |  |  |  | 525 | 525 | " | 525 |  |
|  | Total Engineering |  |  |  |  |  |  |  | 107,322 | 107,322 | " | 107,322 |  |
|  | Stores |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Stores proportion debitable to Pamban Branch |  |  |  |  |  |  |  | 10,961 | 10,961 | " | 10,961 | For details see general estimate |
|  | Audit and Accounts. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Proportion debitable to Pamban Branch |  |  |  |  |  |  |  | 10,500 | 10,500 | " | 10,500 | For details see general estimate |
|  | Total carried over. |  |  |  |  |  |  |  | 170,098 | 170,098 | " | 170,098 |  |

24

| Number 1898-99 | Number 1899-1900 | Details | Monthly salary of Office | Revised Estimate 1898-99 | | | | | Budget Estimate 1899-~~[illegible]~~ | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Per mensem | Per annum | Distribution of charges | | | Per mensem | Per annum | Distribution of charges | | | |
| | | | | | | Capital | Revenue | Total | | | Capital | Revenue | Total | |
| | | | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | |
| | | Total Brought forward | | | | | | | | 1,70,098 | 1,70,098 | „ | 1,70,098 | For 8 months, payment to District Medical Officer Madura. |
| | | Medical and Sanitation | | | | | | | | | | | | |
| | 1 | Medical officer | Under Rs 100. | | | | | | 50 | 400 | 400 | „ | 400 | |
| | 4 | Apothecaries | do | | | | | | 200 | 1,400 | 1,400 | „ | 1,400 | |
| | 4 | Compounders | do | | | | | | 60 | 420 | 420 | „ | 420 | |
| | 16 | Peons, watchmen, watermen & sweepers | do | | | | | | 112 | 784 | 784 | „ | 784 | |
| | | Travelling allowances. | | | | | | | 80 | 560 | 560 | „ | 560 | The Divisional establishment is provided for 6 and 8 months respectively. |
| | | Instruments | | | | | | | „ | 800 | 800 | „ | 800 | |
| | | Office expenses. | | | | | | | 20 | 140 | 140 | „ | 140 | |
| | | Medicines | | | | | | | „ | 1,700 | 1,700 | „ | 1,700 | |
| | | Quarters | | | | | | | „ | 1,000 | 1,000 | „ | 1,000 | |
| | | Office accommodation | | | | | | | „ | 2,350 | 2,350 | „ | 2,350 | |
| | | Total | | | | | | | | 9,554 | 9,554 | „ | 9,554 | |
| | | Total General charges. | | | | | | | | 1,79,652 | 1,79,652 | „ | 1,79,652 | |

Engineer-in-Chief's Office }
Trichinopoly 16th August 1899 }

(Sd.) F. Michell
Engineer-in-Chief.

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# Pamban Branch

## Details of Survey Establishment
## for
## 1899-1900.

Capital and Revenue

Estimate of Survey Establishment of the Paumbaw Branch for the year 1899–1900.

| Number | Details | Monthly salary of Office | Per Mensem | Per Annum | Distribution of charges |  |  | Remarks. |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | Capital | Revenue | Total |  |
|  |  | Rs | Rs | Rs | Rs | Rs | Rs |  |
|  | I Preliminary Expenses (c) Establishment |  |  |  |  |  |  |  |
| 1 | Engineer-in-Chief | 1,350 | 1,350 | 2700 | 2700 | " | 2700 | For 2 months. |
| 2 | Assistant Engineers | 500 | 1,000 | 5,500 | 5,500 | " | 5,500 | 1 for 6 months + 1 for 5 months |
| 1 | Assistant Engineer | 400 | 400 | 1,267 | 1,267 | " | 1,267 | For 3 months and 5 days |
| 2 | Surveyors | 150 | 300 | 939 | 939 | " | 939 | 1 for 4 months + 8 days and 1 for 2 months |
| 1 | Surveyor | 125 | 125 | 250 | 250 | " | 250 | For 2 months |
| 8 | Clerks | Under Rs 100 | 265 | 705 | 705 | " | 705 | For varying periods |
| 4 | Draftsmen | do | 123 | 294 | 294 | " | 294 | do |
| 19 | Tracers | do | 173 | 495 | 495 | " | 495 | Varying numbers + varying periods |
| 58 | Peons, Lascars, Punkahpullers + Sweepers | do | 401 | 1,044 | 1,044 | " | 1,044 | do |
|  | Leave and Pension contribution | " | " | 713 | 713 | " | 713 | For 2 months. |
|  | Exchange Compensation allowances | " | " | 163 | 163 | " | 163 |  |
|  | Travelling allowances | " | " | 1,300 | 1,300 | " | 1300 |  |
|  | Office Expenses | " | " | 300 | 300 | " | 300 |  |
|  | Contingencies | " | " | 100 | 100 | " | 100 |  |
|  | Total Survey Establishment | " | " | 15,770 | 15,770 | " | 15770 |  |

Engineer-in-Chief's Office
Trichinopoly
16th August 1899.

Sd/
Engineer-in-Chief.

Travancore Branch

Schedule A

Budget Estimate of General Charges

for

1899-1900

Capital and Revenue

Schedule A. Budget Estimate of General Charges of the Travancore Branch for the year 1899-1900

| Number 1899-1900 | Detail | Monthly Salary of office | Revised Estimate 1898-99 |  |  |  |  | Budget Estimate 1899-1900 |  |  |  |  | Travancore Branch proportion debitable to |  | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | Per Mensem | Per ~~mensem~~ annum | Distribution of Charges |  |  | Per Mensem | Per ~~mensem~~ annum | Distribution of Charges |  |  | British Section "48" | Travancore Section "Deposits" |  |
|  |  |  |  |  | Capital | Revenue | Total |  |  | Capital | Revenue | Total |  |  |  |
|  |  | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs. |  |
|  | Direction or General |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Proportion debitable to Travancore Branch |  |  |  |  |  |  |  | 38,934 | 38,934 |  | 38934 | 17388 | 21546 | For details see General Estimate |
|  | Engineering Department |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Executive Engineer | 900 |  |  |  |  |  | 900 | 7,200 | 7,200 |  | 7,200 | 7,200 |  | For 8 months |
| 1 | do | 800 |  |  |  |  |  | 800 | 3200 | 3200 | . | 3200 | . | 3200 | For 4 months |
| 1 | do | 700 |  |  |  |  |  | 700 | 4900 | 4900 | . | 4900 | . | 4900 | For 7 months |
| 3 | Assistant Engineers | 500 |  |  |  |  |  | 1,500 | 11,000 | 11,000 | . | 11,000 | 4,000 | 7,000 | 1 for 8 months & 2 for 7 months. |
|  | Total Engineers |  |  |  |  |  |  |  | 26300 | 26300 | . | 26300 | 11200 | 15100 |  |
|  | Subordinates |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Inspectors 1st Grade | 250 |  |  |  |  |  | 750 | 5250 | 5250 | . | 5250 | 1750 | 3500 | For 7 months |
| 2 | do 2nd do | 150 |  |  |  |  |  | 300 | 2250 | 2250 | . | 2250 | 1200 | 1050 | 1 for 8 months and 1 for 7 months |
| 3 | Sub inspectors | Under Rs100/ |  |  |  |  |  | 150 | 1050 | 1050 | . | 1050 | 350 | 700 | For 7 months |
|  | Total Subordinates |  |  |  |  |  |  |  | 8550 | 8550 | . | 8550 | 3300 | 5250 |  |
|  | Office Establishment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Accountants | 200 |  |  |  |  |  | 600 | 4200 | 4200 | - | 4200 | 1400 | 2,800 | For 7 months. |
| 23 | Clerks | under Rs100/ |  |  |  |  |  | 1010 | 7110 | 7110 | . | 7110 | 2840 | 4270 | 1 for 8 months remainder for 7 months |
|  | Draftsmen | - do - |  |  |  |  |  | 330 | 2310 | 2310 | . | 2310 | 840 | 1470 | For 7 months |
| 3 | Cashiers | - do - |  |  |  |  |  | 150 | 1050 | 1050 | - | 1050 | 350 | 700 | — do — |
| 111 | Peons, Sweepers, watermen Punkahmen |  |  |  |  |  |  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 1 4 |
| 1 √ | watermen, dak runners, l[illegible] and Cash peons *16 | 5<br>- do - | 3 | 3 | 3 | 3 | 3 | 773½ | 5499 | 5499 | . | 5499 | 2363 | 3136 | 12 for 8 months, Remainder for 7 months |
| 3 | Police guards | - do - |  |  |  |  |  | 150 | 1050 | 1050 | . | 1050 | 350 | 700 | For 7 months |
|  | Total |  |  |  |  |  |  |  | 21219 | 21219 | . | 21219 | 8143 | 13076 |  |
|  | Exchange Compensation allowance |  |  |  |  |  |  | 120 | 960 | 960 | - | 960 | 960 | - |  |
|  | Pension & Leave Contributions |  |  |  |  |  |  | 56 | 392 | 392 | . | 392 | 133 | 259 |  |
|  | Provident fund bonus |  |  |  |  |  |  | 100 | 800 | 800 | . | 800 | 800 | . |  |
|  | Hill allowances |  |  |  |  |  |  | 570 | 3990 | 3990 | . | 3990 |  | 3990 |  |
|  | Travelling allowances |  |  |  |  |  |  | 1263 | 9041 | 9041 | . | 9041 | 3161 | 5880 |  |
|  | Quarters |  |  |  |  |  |  |  | 34,250 | 34250 | . | 34250 | 8500 | 25750 |  |
|  | Office accommodation |  |  |  |  |  |  | . | 8340 | 8340 | . | 8340 | 2890 | 5450 |  |
|  | Instruments |  |  |  |  |  |  | . | 14810 | 14810 | . | 14810 | 6030 | 8780 |  |
|  | Office Expenses |  |  |  |  |  |  | 900 | 6,600 | 6,600 | . | 6,600 | 2,400 | 4,200 |  |
|  | Electric Telegraph rent & maintenance |  |  |  |  |  |  | ~~900~~ | 360 | 360 |  | 360 | 120 | 240 |  |
|  | Total Engineering |  |  |  |  |  |  | . | 1,35,612 | 1,35,612 | . | 1,35,612 | 47,637 | 87,975 |  |
|  | Stores |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Stores proportion debitable to Travancore Branch |  |  |  |  |  |  |  | 13,293 | 13,293 | - | 13,293 | 3,565 | 9,728 | For details see General Estimate |
|  | Audit & Accounts |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | proportion debitable to Travancore Branch |  |  |  |  |  |  |  | 10500 | 10500 | - | 10500 | 4,690 | 5810 | For details see General Estimate |
|  | Total Carried over. |  |  |  |  |  |  |  | 1,98,339 | 1,98,339 | - | 1,98,339 | 73280 | 1,25,059 |  |

2 2 16 # 5 3 3 3 3 3 5 5 5 5 5 5 5 14

| Number of 1898-99 | Number of 1899-1900 | Detail | Monthly salary of office | Revised Estimate 1898-99 Permanent | Revised Estimate 1898-99 Temporary | Revised Estimate 1898-99 Distribution of charges Capital | Revised Estimate 1898-99 Distribution of charges Revenue | Revised Estimate 1898-99 Distribution of charges Total | Budget Estimate 1899-1900 Permanent | Budget Estimate 1899-1900 Temporary | Budget Estimate 1899-1900 Distribution of charges. Capital | Budget Estimate 1899-1900 Distribution of charges. Revenue | Budget Estimate 1899-1900 Distribution of charges. Total | Travancore Branch Proportion debitable to British section "48" | Travancore Branch Proportion debitable to Travancore section "Deposits" | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs |  |
|  |  | Total brought forward |  |  |  |  |  |  |  | 198,339 | 1,98,339 | " | 198,339 | 73,280 | 1,25,059 |  |
|  |  | Medical and Sanitation |  |  |  |  |  |  |  |  |  |  |  |  |  | Payment to District Medical officers |
|  | 2 | Medical officers | Under Rs 100 |  |  |  |  |  | 100 | 700 | 700 | " | 700 | 350 | 350 | at Tinnevelly & Quilon for 7 months. |
|  | 1 | Assistant Surgeon | 400 |  |  |  |  |  | 400 | 2,800 | 2,800 | " | 2,800 | " | 2,800 | For Chief Division 7 months. |
|  | 4 | Apothecaries | Under Rs 100 |  |  |  |  |  | 200 | 1,400 | 1,400 | " | 1,400 | 350 | 1,050 | For 7 months. |
|  | 4 | Compounders | —do— |  |  |  |  |  | 60 | 420 | 420 | " | 420 | 105 | 315 | —do— |
|  | 20 | Peons, watchmen, watermen & sweepers | —do— |  |  |  |  |  | 140 | 980 | 980 | " | 980 | 196 | 784 | —do— |
|  |  | Travelling allowances |  |  |  |  |  |  | 190 | 1,330 | 1,330 | " | 1,330 | 210 | 1,120 |  |
|  |  | Instruments |  |  |  |  |  |  | - | 1,000 | 1,000 | " | 1,000 | 200 | 800 |  |
|  |  | Office expenses |  |  |  |  |  |  | 40 | 280 | 280 | " | 280 | 70 | 210 |  |
|  |  | Medicines |  |  |  |  |  |  | " | 1,500 | 1,500 | " | 1,500 | 400 | 1,100 |  |
|  |  | Hill allowances |  |  |  |  |  |  | 150 | 1,050 | 1,050 | " | 1,050 | " | 1,050 |  |
|  |  | Quarters. |  |  |  |  |  |  | " | 4,150 | 4,150 | " | 4,150 | " | 4,150 |  |
|  |  | Office accommodation |  |  |  |  |  |  | " | 2,450 | 2,450 | " | 2,450 | 600 | 1,850 |  |
|  |  | Total |  |  |  |  |  |  |  | 18,060 | 18,060 | " | 18,060 | 2,481 | 15,579 |  |
|  |  | Total [illegible] |  |  |  |  |  |  |  | 216399 | 216,399 | " | 216,399 | 75,761 | 1,40,638 |  |

Engineer-in-Chief's Office }
Trichinopoly 16th August 1899 }

/Sd/ T. V. Annasami
for Chief Auditor

/Sd/ J. Michell
Engineer-in-Chief.

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General Estimate
to accompany
Schedules A
Budget Estimate of General Charges
for
1899 - 1900
Pamban and Travancore Branches.

## Capital and Revenue

## General Estimate to accompany Schedules A - Budget Estimates of General Charges for 1899-1900 - Pamban and Travancore Branches.

| umber | Detail | Monthly | Per | Per | Distribution of Charges | | | Proportion debitable to | | Travancore branch. Proportion debitable to | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Salary of office | mensem | annum | Capital | Revenue | Total | Travancore branch | Pamban branch | British section "48" | Travancore section "deposits" | |
| 3 | Direction or General 2/2 | Rs<br>7 | Rs<br>5 | Rs<br>5 | Rs<br>5 | Rs<br>5 | Rs<br>5 | Rs<br>5 | Rs<br>5 | Rs<br>5 | Rs.<br>5 | 15 |
| 1. | Engineer-in-Chief. | 1.350 | 1.350 | 13.500 | 13.500 | .. | 13.500 | 6.750 | 6.750 | 3.014 | 3.736 | For 10 months. |
| 1. | Executive Engineer | 800 | 800 | 6,400 | 6,400 | .. | 6400 | 3,200 | 3,200 | 1,429 | 1,771 | " 8 -do- |
| 1. | Chief Clerk | 250 | 250 | 2,427 | 2,427 | .. | 2,427 | 1,213½ | 1,213½ | 542 | 671½ | " 10- do-nearly |
| 1. | Clerk | 100 | 100 | 800 | 800 | .. | 800 | .. | 800 | .. | .. | " 8 - do- |
| 27 | Clerks, Attenders and Moochie | under Rs 100/- | 785 | 6,407 | 6,407 | .. | 6,407 | 2,593 | 3,814 | 1158 | 1,435 | " 10 - do- nearly |
| 1 | Draftsman | 100 | 100 | 700 | 700 | " | 700 | 350 | 350 | 156 | 194 | " 7- do- |
| 4 | Draftsmen | under Rs 100/- | 200 | 1,800 | 1,800 | " | 1,800 | 900 | 900 | 402 | 498 | " 9- do- |
| 6 | Tracers | -do- | 110 | 1,066 | 1066 | " | 1,066 | 398 | 668 | 178 | 220 | " 10- do- nearly |
| 17 | Peons, punkahmen, sweepers, watchmen and watercarriers | -do- | 128 | 1,179 | 1,179 | " | 1,179 | 589½ | 589½ | 263 | 326½ | " 10-do- do- |
| | Travelling allowances. | - | - | 2,000 | 2,000 | " | 2,000 | 1,000 | 1,000 | 447 | 553 | |
| | Exchange Compensation allowances | .. | 100 | 1,000 | 1,000 | " | 1,000 | 500 | 500 | 223 | 277 | |
| | Pension and leave Contributions | " | 364 | 3,640 | 3,640 | " | 3,640 | 1,820 | 1,820 | 813 | 1,007 | The proportions between |
| | Government audit and Control | " | " | 16,390 | 16,390 | " | 16,390 | 8,150 | 8,240 | 3,640 | 4,510 | the British & Travancore |
| | Provident Fund bonus | " | .. | 200 | 200 | " | 200 | 100 | 100 | 45 | 55 | Sections are worked in |
| | Office accomodation | " | " | 19,500 | 19,500 | " | 19,500 | 9,750 | 9,750 | 4,354 | 5,396 | the ratio of 46 to 57 |
| | Instruments | " | " | 1,240 | 1,240 | " | 1,240 | 620 | 620 | 277 | 343 | |
| | office Expenses | " | 200 | 2000 | 2000 | " | 2000 | 1000 | 1000 | ~~1000~~ 447 | 553 | |
| | Total - | | | 80249 | 80249 | " | 80249 | 38,934 | 41,315 | 17,388 | 21,544 | |
| | **Stores** | | | | | | | | | | | |
| 1 | Chief Storekeeper. | 350 | 350 | 2,450 | 2,450 | " | 2,450 | 1,225 | 1,225 | [illegible]47 | 678 | For 7 months |
| 1 | Depot Storekeeper | 100 | 100 | 700 | 700 | " | 700 | 350 | 350 | 156 | 194 | — do — |
| 5 | Divisional Storekeepers | 35 | 175 | 1260 | 1260 | " | 1260 | 770 | 490 | 280 | 490 | For 7 and 9 months |
| 4 | Sub-divisional Storekeepers | 30 | 120 | 840 | 840 | " | 840 | 420 | 420 | " | 420 | For 7 months. |
| 1 | Accountant | 200 | 200 | 1400 | 1400 | " | 1400 | 700 | 700 | 313 | 387 | For 7 months |
| 8 | Clerks and Checkers | under Rs 100/- | 385 | 2,695 | 2,695 | " | 2,695 | 1,348 | 1,347 | 602 | 746 | — do — |
| 84 | Peons, punkahmen, water carriers watchmen and Sweepers. | -do- | 588 | 4,624 | 4,624 | " | 4,624 | 1,925 | 2639 | 671 | 1,314 | For 7 & 9 months |
| | Travelling allowances | | 182 | 1,595 | 1,595 | .. | 1,595 | 955 | 640 | 348 | 607 | The proportions between |
| | Hill allowances | | 30 | 210 | 210 | .. | 210 | 210 | .. | .. | 210 | the British & Travancore |
| | Quarters | | | 3800 | 3800 | " | 3800 | 2400 | 1,400 | " | 2400 | sections are worked in |
| | Office accomodation | | | 3500 | 3500 | .. | 3500 | 2,200 | 1,300 | 447 | 1,753 | the ratio of 46 to 57 with |
| | Office expenses | | 140 | 1,180 | 1,180 | " | 1,180 | 730 | 450 | 201 | 529 | the addition in some |
| | Total Stores. | | | 24,254 | 24254 | " | 24254 | 13,293 | 10,961 | 3,565 | 9,728 | cases of actual requirements. |
| | **Audit and Accounts.** | | | | | | | | | | | |
| 1. | Supervising Accountant | 400 | 400 | 2800 | 2800 | " | 2800 | 1,400 | 1,400 | 625 | 775 | |
| 1 | Head Accountant | 330 | 330 | 2,310 | 2,310 | " | 2,310 | 1,155 | 1,155 | 516 | 639 | |
| 1 | Accountant | 220 | 220 | 1,540 | 1,540 | . | 1,540 | 770 | 770 | 344 | 426 | |
| 2 | Accounts Clerks | 125 | 250 | 2000 | 2,000 | , | 2000 | 1000 | 1000 | 447 | 553 | The proportions between |
| 30 | Clerks | under Rs 100/- | 857 | 7,715 | 7,715 | " | 7,715 | 3858 | 3857 | 1,723 | 2135 | the British & Travancore |
| 7 | Peons and punkah pullers. | -do- | 43 | 300 | 300 | " | 300 | 150 | 150 | 67 | 83 | sections are worked in |
| | Travelling allowances | | 60 | 540 | 540 | " | 540 | 270 | 270 | 121 | 149 | the ratio of 46 to 57. |
| | Pension Contributions | | $118\frac{5}{7}$ | 831 | 831 | " | 831 | 415 | 416 | 185 | 230 | |
| | Provident Fund bonus | | | 150 | 150 | " | 150 | 75 | 75 | 34 | 41 | |
| | office accomodation | | | 1,914 | 1,914 | " | 1,914 | 957 | 957 | 427 | 530 | |
| | office expenses | | 100 | 900 | 900 | " | 900 | 450 | 450 | 201 | 249 | |
| | Total | " | .. | 21000 | 21000 | " | 21000 | 10,500 | 10,500 | 4690 | 5,810 | |

Engineer-in-Chief's office }
Trichinopoly 16th August 1899 }.

(Signed) F. Michell
Engineer-in-Chief.

Travancore Branch

Details of Survey Establishment for 1899-1900

# Capital and Revenue

## Estimate of Survey Establishment of the Travancore Branch for the year 1899 - 1900

| Number | Detail | Monthly salary of Office | Per mensem | Per annum | Distribution of charges | | | Travancore Branch proportions debitable to | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capital | Revenue | Total | British Section "48" | Travancore section "Deposits" | |
| | | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | |
| | I Preliminary Expenses (c) Establisht. | | | | | | | | | |
| 1 | Executive Engineer | 800 | 800 | 2,865 | 2865 | " | 2865 | " | 2865 | for 3 months & 18 days |
| 1 | - do - | 700 | 700 | 2,800 | 2,800 | " | 2,800 | " | 2,800 | For 4 months |
| 3 | Assistant Engineers | 500 | 1,500 | 6000 | 6000 | " | 6000 | 500 | 5,500 | 1 for 7 months 1 for 4 months & 1 for 1 month |
| 3 | - do - | 400 | 1,200 | 6463 | 6,463 | " | 6,463 | 4063 | 2,400 | 1 for 11 months & 10 days 1 for 2 months & 2 days 1 for 2 months & 23 days |
| 2 | Surveyors | 200 | 400 | 2974 | 2974 | " | 2974 | " | 2974 | 1 for 7 months & 27 days & 1 for 7 months |
| 4 | - do - | 150 | 600 | 1521 | 1,521 | " | 1,521 | 321 | 1,200 | 1 for 11 days 1 for 1 month & 24 days & 2 for 4 months |
| 1 | - do - | 125 | 125 | 270 | 270 | " | 270 | 270 | " | for 2 months & 5 days |
| 1 | - do - | 80 | 80 | 268 | 268 | " | 268 | 268 | " | for 3 months & 11 days |
| 3 | Clerks | [illegible] 100 | 120 | 623 | 623 | " | 623 | 179 | 444 | 1 for 4 months & 14 days 1 for 7 months & 3 days & 1 for 4 months |
| 2 | Draftsmen | do | 95 | 530 | 630 | " | 530 | " | 530 | 1 for 7 months & 1 for 4 months |
| 19 | Tracers | do | 153 | 918 | 918 | " | 918 | 410 | 508 | for 6 months |
| 2 | Apothecaries | do | 100 | 576 | 576 | " | 576 | " | 576 | 1 for 7 months & 16 days & 1 for 4 months |
| 132 | Lascars | do | 1116 | 6510 | 6510 | " | 6510 | 1180 | 5,330 | Varying number and varying periods |
| | Travelling Allowances | . | . | 6230 | 6230 | " | 6230 | 1350 | 4880 | The proportions between |
| | Hill Allowances | . | . | 2616 | 2616 | " | 2616 | " | 2616 | the British and Travancore Sections |
| | Office Expenses | . | . | 500 | 500 | " | 500 | 100 | 400 | are worked to requirements and not |
| | Contingencies | | | 4,600 | 4,600 | " | 4600 | 100 | 4,500 | in the ratio of 46 and 57. |
| | Total Survey Estt. | | | 46,264 | 46,264 | " | 46,264 | 8741 | 37,523 | |

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## Capital Budget Estimate - Works.

# Public Works Department.

## Capital Expenditure on Public Works not charged against Revenue

## 48 - State Railways Construction.

Revised and Budget Estimates
of
Construction Works
on the
Travancore Branch of the S. I. Railway
for
1898-99 and 1899-1900

---

British Section. Memorandum.

| | Rs. |
|---|---|
| Grant sanctioned in G. O. I. No. 96. A.R. dated 3rd May 1899 | 4,25,800 |
| Programme proposed. | |
| Cash Outlay | 4,25,800 |
| Value of Stores to be drawn from stock | " |
| Total | 4,25,800 |

Travancore Section.

| | Rs. |
|---|---|
| Advance sanctioned by the Travancore Durbar. | 4,80,800 |
| Programme proposed. | |
| Cash Outlay | 4,42,800 |
| Value of Stores to be drawn from stock | 38,000 |
| Total | 4,80,800 |

Grand Total 9,06,600

# Capital Revised and Budget Estimates of Construction Works on the Travancore Branch for 1898-99 and 1899-1900.

## General Abstract.

| | 1 | 2 | 3 | | | 4 | | | | | | 5 | | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Main heads of Expenditure | Actuals to end of ~~1897-98~~ 1898-99 | Budget grant 1898-99 | Revised Estimate 1898-1899 | | | Budget Estimate 1899-1900 | | | | | | Total probable outlay to end of 1899-1900 (Columns 1, 3 + 4) | | Required for lines under construction | |
| | | | | | | British Section "48" | | | Travancore Section "Deposits" | | | British Section "48" | Travancore Section Deposits | Remaining to be spent in future years | Sanctioned Estimate |
| | | | Cash | Stores | Total | Cash | Stores | Total | Cash | Stores | Total | | | | |
| Works and Services. | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs |
| I Preliminary Expenses. | ~~4254~~ 5,194 | | | | | Jm ~~48,246~~ 43052 | 〃 | ~~48,246~~ 43052 | 88,904 | 10,000 | 98,904 | 48,246 * | 98,904 | Estimate not prepared | Do. |
| II Land. | | | | | | 120,000 | 〃 | 120,000 | 48,000 | 〃 | 48,000 | 120,000 | 48,000 | | |
| III Formation | | | | | | 95,000 | 〃 | 95,000 | 1,30,950 | 〃 | 1,30,950 | 95,000 | 1,30,950 | | |
| IV Bridgework. | | | | | | Jm ~~62,793~~ 67987 | 〃 | ~~62,793~~ 67987 | 25,308 | 〃 | 25,308 | ~~62,793~~ 67987 | 25,308 | | |
| V Fencing | | | | | | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | | |
| VI Electric Telegraph. | | | | | | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | | |
| VII Ballast and Permanent way. | | | | | | 2,000 | 〃 | 2,000 | 2,000 | . | 2,000 | 2,000 | 2,000 | | |
| VIII. Stations and Buildings. | | | | | | 22,000 | 〃 | 22,000 | 7,000 | . | 7,000 | 22,000 | 7,000 | | |
| Total Construction Accounts | ~~4254~~ 5194 | | | | | 3,50,039 | 〃 | 3,50,039 | 3,02,162 | 10,000 | 3,12,162 | ~~3,50,039~~ 355233 | 3,12,162 | | |
| IX Plant | | | | | | 〃 | 〃 | . | . | 28,000 | 28,000 | . | 28,000 | | |
| X Ferries &c. | | | | | | 〃 | 〃 | . | 〃 | 〃 | 〃 | . | 〃 | | |
| XI Rolling Stock | | | | | | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | | |
| XII General charges as per Schedule A. | | | | | | 75,761 | 〃 | 75,761 | 1,40,638 | 〃 | 1,40,638 | 75,761 | 1,40,638 | | |
| Total Expenditure on Final Heads | ~~4254~~ 5,194 | | | | | 4,25,800 | 〃 | 4,25,800 | 4,42,800 | 38,000 | 4,80,800 | ~~4,25,800~~ 430994 | 4,80,800 | | |
| Miscellaneous Advances | | | | | | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | | |
| Total | ~~4254~~ 5,194 | | | | | 4,25,800 | 〃 | 4,25,800 | 4,42,800 | 38,000 | 4,80,800 | ~~4,25,800~~ 430994 | 4,80,800 | | |
| Deduct Receipts on Capital Account | | | | | | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | | |
| Grand Total Works and Services | ~~4254~~ 5,194 | | | | | 4,25,800 | 〃 | 4,25,800 | 4,42,800 | 38,000 | 4,80,800 | ~~4,25,800~~ 430994 Jm | 4,80,800 | | |

* ~~Includes Rs 940 incurred in 1898-99.~~

Engineer-in-Chief's Office.
Trichinopoly.
16th August 1899.

Chas E Stubbard.
Deputy Examr. Ry Accts
Trichinopoly

T. J. Anderson
for Chief Auditor

Theo Michell
Engineer-in-Chief.

W. L. Messurier
for Ag. Agent
14.9.99

~~Final Issue~~

# Public Works Department.

## Capital Expenditure on Public Works.
## not charged against Revenue.

## Capital Account of Indian Railway Companies
## Revised and Budget Estimates of
## Stores Transactions
## on the
## Travancore Branch of the S. I. Ry
## for 1898-99 and 1899-1900.

---

British Section. Memorandum. ✓ Rs. ✓

| | | |
|---|---|---|
| Grant sanctioned in G.O.I. No. 96 A.R of 3rd May 1899. | | 2,74,200 |
| The Budget Estimate contemplates a total Expenditure of Rs 2,74,200 as under:— ✓ | Rs | |
| Cash Outlay on Stores | 1,76,110 | |
| Expenditure in England including exchange | 98,090 | 2,74,200<br>2,74,200 |
| and is provided for as follows:— | Rs | |
| Credits for Stores issues to Capital Works | " | |
| Credits for Stores issues to Revenue | " | |
| Transfers and Sales | " | " |
| Balance being net Capital Grant required as above | | 2,74,200 |

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Travancore Section. Rs. ✓

| | | |
|---|---|---|
| Advance ~~made~~ Sanctioned by the Travancore Durbar | | 2,19,200 |
| The Budget Estimate contemplates a total Expenditure of Rs 2,57,200 as under:— | Rs | |
| Cash Outlay on Stores | 1,35,309 ✓ | |
| Expenditure in England including Exchange | 1,21,891 ✓ | 2,57,200 ✓<br>2,57,200 |
| and is provided for as follows:— | Rs ✓ | |
| Credits for Stores issues to Capital Works | 38,000 | |
| Credits for Stores issues to Revenue. | " | |
| Transfers and Sales | " | 38,000 ✓ |
| Balance being Net Capital Grant required as above | | 2,19,200 |

Grand Total 4,93,400

# Travancore Branch.

## Details of the Estimated transactions under the head "Stores".

## Revised Estimate for 1898-99 and Budget Estimate for 1899-1900.

| Particulars of Debits | British Section "48" Revised Estimate 1898-99 | British Section "48" Budget Estimate 1899-1900 | Travancore Section "Deposits" Revised Estimate 1898-99 | Travancore Section "Deposits" Budget Estimate 1899-1900 |
|---|---|---|---|---|
| Balance at commencement of year | " | " | " | " |
| Debits during the Year | | | | |
| Local Purchases | | | | |
| Timber | " | 6864 | " | 2400 |
| Sleepers. | " | 96,000 | " | 96,000 |
| Miscellaneous. | " | 61,897 | " | 27,500 |
| Total... | " | 164761 | " | 125,900 |
| London Stores. | | | | |
| For Capital Works. | | | | |
| Plant for Tunnel | " | " | " | 28,000 |
| Bridgework | " | 11739 | " | " |
| Rolling Stock | " | " | " | " |
| Permanent Way. | " | 94,700 | " | 94,700 |
| Miscellaneous Stores. | " | 3,000 | " | 8,600 |
| Total. | " | 109,439 | " | 131,300 |
| Manufactures. | | | | |
| Quarrying. | " | " | " | " |
| Brick Manufactures | " | " | " | " |
| Lime Manufactures | " | " | " | " |
| Ballast | " | " | " | " |
| Total. | | | | |
| Workshop Manufactures. | | | | |
| Works in Progress | " | " | " | " |
| New Works | " | " | " | " |
| Total | " | " | " | " |
| Total Debits during the year | " | 274,200 | " | 257,200 |
| Grand Total | " | 274,200 | " | 257,200 |

| Particulars of Credits | British Section "48" Revised Estimate 1898-99 | British Section "48" Budget Estimate 1899-1900 | Travancore Section "Deposits" Revised Estimate 1898-99 | Travancore Section "Deposits" Budget Estimate 1899-1900 |
|---|---|---|---|---|
| Credits during the year. | | | | |
| Issues to Capital Works. | | | | |
| Preliminary Expenses | " | " | " | 10,000 |
| Land | " | " | " | " |
| Formation. | " | " | " | " |
| Bridgework | " | " | " | " |
| Fencing | " | " | " | " |
| Electric Telegraph | " | " | " | " |
| Ballast and Permanent Way | " | " | " | " |
| Stations and Buildings | " | " | " | " |
| Plant | " | " | " | 28,000 |
| Rolling Stock. | " | " | " | " |
| General Charges | " | " | " | " |
| Total | " | " | " | 38,000 |
| Issues to Revenue | " | " | " | " |
| Transfers and Sales | " | " | " | " |
| Total Credits during the Year | " | " | " | 38,000 |
| Balance Expected at close of the Year. | " | 274,200 | " | 219,200 |
| Grand Total | " | 274,200 | " | 257,200 |
| Net Debit or Credit to Stores Transactions being Capital Grant required | " | 274,200 | " | 219,200 |

Engineer-in-Chief's Office
Trichinopoly
16th August 1899

Chas E Stebbard.
Deputy Exam^r Ry acts
Trichinopoly.

Chief Auditor
23/8

Engineer-in-Chief

for Ag. Agent
14.9.99

## Appendix A.

Statement showing the details of the sum set aside for Expenditure in England on the Travancore Branch during 1899-1900

| | British Section "48" Rs. | Travancore Section Deposits Rs |
|---|---|---|
| Probable amount of outstanding indents of the previous year | " | " |
| Probable amount of indents to be sent home for compliance during the year | 95,860 | 1,18,854 |
| Establishment charges &c payable in England | 2,230 | 3,037 |
| | 98,090 | 121,891 |
| Deduct probable amount of outstanding indents at the close of the year | " | " |
| Estimated Net Capital Outlay in England | 98,090 | 121,891 |

Engineer-in-Chief's Office
Trichinopoly
16 August 1899

Engineer-in-Chief.

Deputy Examr. Ry accts
Trichinopoly.

for Chief Auditor
23/8

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8

# Travancore Branch

## Schedule A

## Budget Estimate of General Charges

for

1899-1900.

# Capital and Revenue

## Schedule A. Budget Estimate of General Charges of the Travancore Branch for the year 1899-1900.

| Number 1898-99 | Number 1899-1900 | Detail | Monthly Salary of Office Rs | Revised Estimate 1898-99 Per mensem Rs | Revised Estimate 1898-99 Per annum Rs | Revised Estimate 1898-99 Distribution of Charges Capital | Revised Estimate 1898-99 Distribution of Charges Revenue | Revised Estimate 1898-99 Distribution of Charges Total | Budget Estimate 1899-1900 Per mensem Rs | Budget Estimate 1899-1900 Per annum Rs | Budget Estimate 1899-1900 Distribution of Charges Capital Rs | Budget Estimate 1899-1900 Distribution of Charges Revenue Rs | Budget Estimate 1899-1900 Distribution of Charges Total Rs | Travancore Branch proportion debitable to,— British Section "48" Rs | Travancore Branch proportion debitable to,— Travancore Section "Deposit" Rs | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Direction & General** | | | | | | | | | | | | | | |
| | | Proportion debitable to Travancore Branch | . | . | . | . | . | . | . | 38934 | 38934 | „ | 38934 | 17388 | 21546 | For details see General Estimate |
| | | **Engineering** | | | | | | | | | | | | | | |
| | | Engineers | | | | | | | | | | | | | | |
| | 1 | Executive Engineer | 900 | . | . | . | . | . | 900 | 7200 | 7200 | „ | 7200 | 7200 | „ | For 8 months |
| | 1 | d° | 800 | . | . | . | . | . | 800 | 3200 | 3200 | „ | 3200 | „ | 3200 | For 4 months |
| | 1 | d° | 700 | . | . | . | . | . | 700 | 4900 | 4900 | „ | 4900 | „ | 4900 | For 7 months |
| | 3 | Assistant Engineers | 500 | . | . | . | . | . | 1500 | 11000 | 11000 | „ | 11000 | 4000 | 7000 | 1 at 8 months + 2 at 7 months |
| | | **Upper Subordinates** | | | | | | | | | | | | | | |
| | 3 | Inspectors 1st grade | 250 | . | . | . | . | . | 750 | 5250 | 5250 | „ | 5250 | 1750 | 3500 | For 7 months |
| | 2 | d° 2nd grade | 150 | . | . | . | . | . | 300 | 2250 | 2250 | „ | 2250 | 1200 | 1050 | 1 at 8 months + 1 at 7 months |
| | | **Lower Subordinates** | | | | | | | | | | | | | | |
| | 3 | Sub Inspectors | Under Rs 100 | . | . | . | . | . | 150 | 1050 | 1050 | „ | 1050 | 350 | 700 | For 7 months |
| | | **Office Establishment** | | | | | | | | | | | | | | |
| | 3 | Accountants | 200 | . | . | . | . | . | 600 | 4200 | 4200 | „ | 4200 | 1400 | 2800 | For 7 months |
| | 23 | Clerks | Under Rs 100 | | | | | | 1010 | 7110 | 7110 | „ | 7110 | 2840 | 4270 | 1 at 8 months remainder at 7 months |
| | 8 | Draftsmen | d° | | | | | | 330 | 2310 | 2310 | „ | 2310 | 840 | 1470 | For 7 months |
| | | **Petty Establishment** | | | | | | | | | | | | | | |
| | 3 | Cashiers | Under Rs 100 | | | | | | 150 | 1050 | 1050 | „ | 1050 | 350 | 700 | For 7 months |
| | 111 | Peons, Sweepers, Watchmen Punkah and Watermen Dak runners Lascars and Cash peons | d° | | | | | | 773 | 5499 | 5499 | „ | 5499 | 2363 | 3136 | 12 at 8 months remainder at 7 months |
| | 3 | Police Guards | d° | | | | | | 150 | 1050 | 1050 | „ | 1050 | 350 | 700 | For 7 months |
| | | Travelling Allowances | | . | . | . | . | . | 1263 | 9041 | 9041 | „ | 9041 | 3161 | 5880 | |
| | | Hill Allowances | | . | . | . | . | . | 570 | 3990 | 3990 | „ | 3990 | „ | 3990 | |
| | | Office Expenses | | . | . | . | . | . | 900 | 6600 | 6600 | „ | 6600 | 2400 | 4200 | |
| | | Exchange Compensation Allowances | | . | . | . | . | . | 120 | 960 | 960 | „ | 960 | 960 | „ | |
| | | Pension & Leave Contributions | | . | . | . | . | . | 56 | 392 | 392 | „ | 392 | 133 | 259 | |
| | | Provident Fund Bonus | | . | . | . | . | . | 100 | 800 | 800 | „ | 800 | 800 | „ | |
| | | Quarters | | . | . | . | . | . | . | 34250 | 34250 | „ | 34250 | 8500 | 25750 | |
| | | Instruments | | . | . | . | . | . | . | 14810 | 14810 | „ | 14810 | 6030 | 8780 | |
| | | Office Accommodation | | . | . | . | . | . | . | 8340 | 8340 | „ | 8340 | 2890 | 5450 | |
| | | Electric Telegraph (Rent & Maintenance) | | . | . | . | . | . | | 360 | 360 | „ | 360 | 120 | 240 | |
| | | Total Engineering | | . | . | . | . | . | . | 135612 | 135612 | „ | 135612 | 47637 | 89975 | |
| | | **Stores** | | | | | | | | | | | | | | |
| | | Proportion debitable to Travancore Branch | | . | . | . | . | . | . | 13293 | 13293 | „ | 13293 | 3565 | 9728 | For details see General Estimate |
| | | **Audit and Accounts** | | | | | | | | | | | | | | |
| | | Proportion debitable to Travancore Branch | | . | . | . | . | . | . | 10500 | 10500 | „ | 10500 | 4690 | 5810 | For details see General Estimate |

| Number 1898-99 | Number 1899-1900 | Detail | Monthly Salary of Office | Revised Estimate 1898-99 Per mensem | Revised Estimate 1898-99 Per annum | Revised Estimate 1898-99 Distribution of Charges Capital | Revised Estimate 1898-99 Distribution of Charges Revenue | Revised Estimate 1898-99 Distribution of Charges Total | Budget Estimate 1899-1900 Per mensem | Budget Estimate 1899-1900 Per annum | Budget Estimate 1899-1900 Distribution of Charges Capital | Budget Estimate 1899-1900 Distribution of Charges Revenue | Budget Estimate 1899-1900 Distribution of Charges Total | Travancore Branch proportion debitable to, British Section "48" | Travancore Branch proportion debitable to, Travancore Section "Deposits" | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs | |
| | | Medical and Sanitation | | | | | | | | | | | | | | Payment to District Medical officers at Tinnevelly & Quilon for 7 months |
| | 2 | Medical Officers | Under Rs 100 | . | . | | | | 100 | 700 | 700 | " | 700 | 350 | 350 | |
| | 1 | Assistant Surgeon | 400 | | | | | | 400 | 2800 | 2800 | " | 2800 | " | 2800 | For Ghat Division 7 months |
| | 4 | Apothecaries | Under Rs 100 | | | | | | 200 | 1400 | 1400 | " | 1400 | 350 | 1050 | For 7 months |
| | 4 | Compounders | do | | | | | | 60 | 420 | 420 | " | 420 | 105 | 315 | do |
| | 20 | Peons, Watchmen, Watermen & Sweepers | do | | | | | | 140 | 980 | 980 | " | 980 | 196 | 784 | do |
| | | Travelling Allowances | | . | . | | | | 190 | 1330 | 1330 | " | 1330 | 210 | 1120 | |
| | | Hill Allowances | | . | . | | | | 150 | 1050 | 1050 | " | 1050 | " | 1050 | |
| | | Office Expenses | | . | . | | | | 40 | 280 | 280 | " | 280 | 70 | 210 | |
| | | Quarters | | . | . | | | | - | 4150 | 4150 | " | 4150 | " | 4150 | |
| | | Office Accommodation | | . | . | | | | - | 2450 | 2450 | " | 2450 | 600 | 1850 | |
| | | Instruments | | . | . | | | | - | 1000 | 1000 | " | 1000 | 200 | 800 | |
| | | Medicines | | . | . | | | | - | 1500 | 1500 | " | 1500 | 400 | 1100 | |
| | | Total Medical & Sanitation | | | | | | | | 18060 | 18060 | " | 18060 | 2481 | 15579 | |
| | | Total General Charges | | | | | | | | 216399 | 216399 | " | 216399 | 75761 | 140638 | |

Engineer-in-Chief's Office
Trichinopoly
16th August 1899

T. V. Arangaswami
for Chief Auditor
23/8
AB

Thos. [illegible]
Engineer-in-Chief

AB for Engineer-in-Chief

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Travancore Branch.
Estimate of General Charges
for
1899-1900.

## Capital and Revenue.

## Estimate of General Charges of the Travancore Branch for the year 1899-1900.

| Number. | Detail | Monthly Salary of Office | Per mensem | Per annum | Distribution of charges |  |  | Proportions debitable to |  | Travancore Branch proportion debitable to |  | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | Capital | Revenue | Total | Travancore Branch | Pamban Branch | British Section "48" | Travancore Section Deposits |  |
|  |  | Rs | Rs | Rs | Rs | Rs | Rs | Rs | Rs |  |  |  |
| 1. | Direction or General.<br>Engineer-in-Chief | 1,350 | 1,350 | 13,500 | 13,500 | " | 13,500 | 6,750 | 6,750 | 3,014 | 3736 | For 10 months. |
| 1. | Executive Engineer | 800 | 800 | 6400 | 6,400 | " | 6,400 | 3,200 | 3,200 | 1429 | 1771 | For 8 months |
| 1 | Chief Clerk | 250 | 250 | 2,427 | 2,427 | " | 2,427 | 1,213½ | 1,213½ | 542 | 671½ | For 10 months nearly. |
| 1 | Clerk | 100 | 100 | 800 | 800 | " | 800 | " | 800 | " | " | For 8 months |
| 27 | Clerks Attenders and Moochis. | under Rs 100 | 785 | 6,407 | 6,407 | " | 6,407 | 2593 | 3,814 | 1,158 | 1,435 | For 10 months nearly. |
| 1 | Draftsman | 100 | 100 | 700 | 700 | " | 700 | 350 | 350 | 156 | 194 | For 7 months |
| 4 | Draftsmen | under Rs 100 | 200 | 1,800 | 1,800 | " | 1,800 | 900 | 900 | 402 | 498 | For 9 months |
| 6 | Tracers | do | 110 | 1,066 | 1066 | " | 1,066 | 398 | 668 | 178 | 220 | For 10 months nearly |
| 17 | Peons, Punkahmen, Sweepers, Watchmen and water carriers | do | 128 | 1179 | 1179 | " | 1179 | 589½ | 589½ | 263 | 326½ | For 10 months nearly. |
| 4 | Office Expenses | " | 200 | 2,000 | 2,000 | " | 2,000 | 1,000 | 1,000 | 447 | 553 |  |
| 1 | Travelling Allowances | " | " | 2,000 | 2,000 | " | 2,000 | 1,000 | 1,000 | 447 | 553 |  |
|  | Exchange Compensation allowances | " | 100 | 1,000 | 1,000 | " | 1,000 | 500 | 500 | 223 | 277 | The proportions |
|  | Pension and leave Contributions | " | 364 | 3,640 | 3,640 | " | 3,640 | 1,820 | 1,820 | 813 | 1,007 | between the British |
| 2 | Office Accommodation | " |  | 19,500 | 19,500 | " | 19,500 | 9,750 | 9,750 | 4354 | 5,396 | and Travancore |
| 3 | Instruments | " |  | 1,240 | 1,240 | " | 1,240 | 620 | 620 | 277 | 343 | Sections are worked |
|  | Government audit and Control | " |  | 16,390 | 16,390 | " | 16,390 | 8,150 | 8,240 | 3640 | 4510 | in the rates of 46 & 57 |
|  | Povident Fund Bonus | " |  | 200 | 200 | " | 200 | 100 | 100 | 45 | 55 |  |
|  | Total |  |  | 80,249 | 80,249 | " | 80,249 | 38,934 | 41,315 | 17,388 | 21546 |  |
|  | Proportion debitable to Pamban Branch. |  |  | 41,315 | 41,315 | " | 41,315 | " | 41315 | " | " |  |
|  | Total Direction |  |  | 38,934 | 38,934 | " | 38,934 | 38,934 | ~~41,315~~ | 17,388 | 21,546 |  |

| No. | Detail | Monthly Salary of Office Rs. | Per mensem Rs | Per Annum. Rs | Distribution of charges. Capital Rs | Revenue Rs | Total Rs | Travancore Branch Proportion debitable to British Section "48" | Travancore Section "Deposits" | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Engineering. | | | | | | | | | |
| | Engineers. | | | | | | | | | |
| 1 | Executive Engineer | 900 | 900 | 7,200 | 7,200 | ″ | 7,200 | 7,200 | ″ | For 8 months. |
| 1 | do | 800 | 800 | 3,200 | 3,200 | ″ | 3,200 | ″ | 3,200 | For 4 months. |
| 1 | do | 700 | 700 | 4,900 | 4,900 | ″ | 4,900 | ″ | 4,900 | For 7 months. |
| 3 | Assistant Engineers | 500 | 1,500 | 11,000 | 11,000 | ″ | 11,000 | 4,000 | 7,000 | 1 at 8 months & 2 at 7 months. |
| | Upper Subordinates. | | | | | | | | | |
| 3 | Inspectors 1st Grade | 250 | 750 | 5,250 | 5,250 | ″ | 5,250 | 1,750 | 3,500 | For 7 months |
| 2 | Do 2nd Grade | 150 | 300 | 2,250 | 2,250 | ″ | 2,250 | 1,200 | 1,050 | 1 at 8 months & 1 at 7 months. |
| | Lower Subordinates. | | | | | | | | | |
| 3 | Sub Inspectors | Rs under 100 | 150 | 1,050 | 1,050 | ″ | 1,050 | 350 | 700 | For 7 months. |
| | Office Establishment. | | | | | | | | | |
| 3 | Accountants | 200 | 600 | 4,200 | 4,200 | ″ | 4,200 | 1,400 | 2800 | For 7 months. |
| 23 | Clerks | Rs under 100 | 1,010 | 7,110 | 7,110 | ″ | 7,110 | 2,840 | 4,270 | 1 at 8 months remainder at 7 months |
| 8 | Draftsmen | do | 330 | 2,310 | 2,310 | ″ | 2,310 | 840 | 1,470 | For 7 months. |
| | Petty Establishment. | | | | | | | | | |
| 3 | Cashiers | Rs under 100 | 150 | 1,050 | 1,050 | ″ | 1,050 | 350 | 700 | For 7 months |
| 111 | Peons Sweepers, Watchmen Punkahmen Waterman, Dak Runners, Lascars and Cash peons | -do- | 773½ | 5,499 | 5,499 | ″ | 5,499 | 2,363 | 3,1[illegible] | 12 at 8 months remainder at 7 months |
| 3. | Police Guards | -do- | 150 | 1,050 | 1,050 | ″ | 1,050 | 350 | 700 | For 7 months. |
| | Travelling Allowances | | 1,263 | 9,041 | 9,041 | ″ | 9,041 | 3,161 | 5,880 | |
| | Hill Allowances | | 570 | 3,990 | 3,990 | ″ | 3,990 | ″ | 3,990 | |
| | Office Expenses | | 900 | 6,600 | 6,600 | ″ | 6,600 | 2,400 | 4,200 | |
| | Exchange Compensation Allowances | | 120 | 960 | 960 | ″ | 960 | 960 | ″ | |
| | Pension and leave Contributions | | 56 | 392 | 392 | ″ | 392 | 133 | 259 | The proportions between |
| | Provident Fund Bonus | | 100 | 800 | 800 | ″ | 800 | 800 | ″ | the British and |
| | Quarters | | | 34,250 | 34,250 | ″ | 34,250 | 8,500 | 25,750 | Travancore Sections are |
| | Instruments | | | 14,810 | 14,810 | ″ | 14,810 | 6,030 | 8,780 | worked to requirements |
| | Office Accommodation | | | 8,340 | 8,340 | ″ | 8,340 | 2,890 | 5,450 | and not in the rate |
| | Electric Telegraph (Rent and Maintenance) | | | 360 | 360 | ″ | 360 | 120 | 240 | of 46 and 57. |
| | Total Engineering | | | 135,612 | 135,612 | ″ | 135,612 | 47,637 | 87,975 | |

| Detail | Monthly Salary of Office | Per | Per | Distribution of charges. | | | Proportion debitable to | | Travancore Branch proportions debitable to | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rs. | mensem Rs | annum. Rs | Capital Rs | Revenue Rs | Total Rs | Travancore Branch Rs | Pamban Branch Rs | British Section "48" | Travancore Section "Deposits" | |
| Stores. | | | | | | | | | | | |
| Chief Storekeeper | 350 | 350 | 2450 | 2,450 | " | 2,450 | 1,225 | 1,225 | 547 | 678 | For 7 months. |
| Deputy Storekeeper | 100 | 100 | 700 | 700 | " | 700 | 350 | 350 | 156 | 194 | —— do —— |
| Divisional Storekeepers | 35 | 175 | 1,260 | 1,260 | " | 1,260 | 770 | 490 | 280 | 490 | For 7 & 9 months. |
| Sub Divisional Storekeepers | 30 | 120 | 840 | 840 | " | 840 | 420 | 420 | " | 420 | For 7 months. |
| Office Establishment. | | | | | | | | | | | |
| Accountant | 200 | 200 | 1,400 | 1,400 | " | 1,400 | 700 | 700 | 313 | 387 | For 7 months. |
| Clerks and Checkers | under Rs 100 | 385 | 2,695 | 2,695 | " | 2,695 | 1,348 | 1,347 | 602 | 746 | For 7 months. |
| Petty Establishment. | | | | | | | | | | | |
| Peons, Punkahmen, Water carriers | | | | | | | | | | | |
| Watchmen and Sweepers | do | 588 | 4624 | 4624 | " | 4624 | 1,985 | 2,639 | 671 | 1314 | For 7 & 9 months. |
| Travelling Allowances | | 182 | 1,595 | 1,595 | " | 1,595 | 955 | 640 | 348 | 607 | The proportion between |
| Hill Allowances | | 30 | 210 | 210 | " | 210 | 210 | " | " | 210 | British & Travancore |
| Office Expenses | | 140 | 1180 | 1180 | " | 1,180 | 730 | 450 | 201 | 529 | Sections are worked |
| Quarters | | | 3,800 | 3,800 | " | 3800 | 2,400 | 1,400 | " | 2,400 | to the rates of 46 and |
| Office Accommodation | | | 3,500 | 3,500 | " | 3,500 | 2,200 | 1,300 | 447 | 1,753 | 57 with the addition in some cases of actual requirements |
| Total | | | 24,254 | 24,254 | " | 24,254 | 13,293 | 10,961 | 3,565 | 9,728 | |
| Deduct proportion debitable to the Pamban Branch | | | 10,961 | 10,961 | " | 10,961 | " | 10,961 | | " | |
| Total Stores | | | 13,293 | 13293 | " | 13,293 | 13,293 | ~~10,961~~ | 3,565 | 9,728 | |
| Audit and Accounts. | | | | | | | | | | | |
| 1 Supervising Accountant | 400 | 400 | 2,800 | 2,800 | " | 2,800 | 1,400 | 1,400 | 625 | 775 | |
| 1 Head Accountant | 330 | 330 | 2,310 | 2,310 | " | 2,310 | 1,155 | 1,155 | 516 | 639 | |
| 1 Accountant | 220 | 220 | 1,540 | 1540 | " | 1,540 | 770 | 770 | 344 | 426 | |
| 2 Accounts Clerks | 125 | 250 | 2,000 | 2,000 | " | 2,000 | 1,000 | 1,000 | 447 | 553 | The proportions |
| 30 Clerks | under Rs 100 | 857 | 7,715 | 7,715 | " | 7,715 | 3,858 | 3,857 | 1723 | 2135 | between British |
| 7 Peons and Punkah pullers | do | 43 | 300 | 300 | " | 300 | 150 | 150 | 67 | 83 | and Travancore |
| ~~Local and staff~~ Travelling allowances | | 60 | 540 | 540 | " | 540 | 270 | 270 | 121 | 149 | Sections are |
| Office Expenses | | 100 | 900 | 900 | " | 900 | 450 | 450 | 201 | 249 | worked to the |
| Pension Contributions | | 118 $\frac{5}{7}$ | 831 | 831 | " | 831 | 415 | 416 | 185 | 230 | rates of 46 and |
| Office Accommodation | | | 1,914 | 1,914 | " | 1,914 | 957 | 957 | 427 | 530 | 57. |
| Provident Fund Bonus | | | 150 | 150 | " | 150 | 75 | 75 | 34 | 41 | |
| Total | | | 21,000 | 21,000 | " | 21,000 | 10,500 | 10,500 | 4,690 | 5810 | |
| Deduct proportion debitable to Pamban Branch | | | 10,500 | 10,500 | " | 10,500 | — | 10,500 | | | |
| Total Audit & Accounts. | | | 10,500 | 10,500 | " | 10,500 | 10,500 | ~~10,500~~ | 4,690 | 5,810 | |

| No. | Detail | Monthly Salary of Office. Rs. | Per mensem Rs | Per annum Rs | Distribution of charges. |  |  | Travancore Branch proportion debitable to |  | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | Capital Rs | Revenue Rs | Total Rs | British Section "48" | Travancore Section "Deposits." |  |
|  | Medical and Sanitation |  |  |  |  |  |  |  |  |  |
| 2. | Medical Officers | Under Rs 100 | 100 | 700 | 700 | " | 700 | 350 | 350 | Payment to District Medical Officers at Tinnevelly and Quilon for 7 months. |
| 1 | Assistant Surgeon | 400 | 400 | 2,800 | 2,800 | " | 2800 | " | 2,800 | For that Division 7 months |
| 4 | Apothecaries | Under Rs 100 | 200 | 1400 | 1400 | " | 1400 | 350 | 1,050 | For 7 months |
| 4 | Compounders | do | 60 | 420 | 420 | " | 420 | 105 | 315 | do |
| 20 | Peons Watchmen Watermen & Sweepers. | do | 140 | 980 | 980 | " | 980 | 196 | 784 | do. |
|  | Travelling Allowances |  | 190 | 1,330 | 1,330 | " | 1330 | 210 | 1,120 |  |
|  | Hill Allowances |  | 150 | 1,050 | 1,050 | " | 1050 | " | 1,050 | The proportions between |
|  | Office Expenses |  | 40 | 280 | 280 | " | 280 | 70 | 210 | British and Travancore |
|  | Quarters |  |  | 4,150 | 4,150 | " | 4,150 | " | 4,150 | Sections, are worked out |
|  | Office Accommodation |  |  | 2,450 | 2,450 | " | 2,450 | 600 | 1,850 | to requirements and not |
|  | Instruments |  |  | 1,000 | 1,000 | " | 1000 | 200 | 800 | in the rates of 46 and 57. |
|  | Medicines |  |  | 1,500 | 1,500 | " | 1,500 | 400 | 1,100 |  |
|  | Total Medical and Sanitation |  |  | 18,060 | 18,060 | " | 18,060 | 2,481 | 15,579 |  |
|  | Total General charges. |  |  | 2,16,399 | 2,16,399 | " | 2,16,399 | 75,761 | 1,40,638 |  |

Engineer-in-Chief's Office
Trichinopoly—
16th August 1899.

Engineer-in-Chief.

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URGENT.

No. 931

South Indian Railway Co., Ld.,
AGENT'S OFFICE,
TRICHINOPOLY, 14th September 1899.

Consulting Engineer ... Received 15 SEP 1899 ... Madras

G. No. 4827

208

From

Ag.
The AGENT,
SOUTH INDIAN RAILWAY,

To

The CONSULTING ENGINEER FOR RAILWAYS,
MADRAS.

Two currents.

Sir,

In compliance with the instructions contained in your letter No. Ry. 0 2237 of 20th July 1899, and in substitution of the accompaniments to my letter No. 500 of 29th May 1899, I have the honor to forward the Budget Estimate of the Travancore Branch for the year 1899–1900, and shall be glad to receive early sanction thereto.

Accompanying the Budget are the following:—

(1) Schedule A— Budget Estimate of General charges
(2) Estimate of General charges common to both the Travancore and Pamban Branches.
(3) Details of Survey Establishment.

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

W. LeMesurier
for Ag: Agent

5 Enclosures by Book Post

[500—5-2-99.]

JLK
22.9.99.
P.T.O.

19-9-99

Engineer-in-Chief

From
THE AGENT,
South Indian Railway,
Trichinopoly,
To
THE CONSULTING ENGINEER FOR
RAILWAYS,
Madras.
Dated } 18
Received }
No.
ENCLOSURE.

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Form No. 33.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,
Madras, 16th September 1899.

EXAMINER OF RAILWAY ACCOUNTS, MADRAS
Regr. No. 556
16 SEP. 1899
Enclosures..........

No. 2904.

OFFICE NOTE.

Letter from the Agent, South Indian Railway, No. 931, dated 14th September 1899, forwarded to the Examiner of Railway Accounts. for remarks.

16.9.99.
for E. R.

To E.R. for submission to India
19.9.99.

approved
FKs
21/9

J.G.K. 25/9

D. will attend to this seeing that the proper routine is gone through.
FKs
21/9/99

I shall be glad if C.R will draft a letter to India & put up the enclosures which should accompany it
22.9.99.

[500—5-9-99.]

P.T.O.

EXAMINER'S REPLY.

The estimates have been prepared in accordance with the wishes of E.R. as contained in his letter No. 2237 (Flag O) dated 20th July 99 to Agent and may be approved by E.R. and retained locally for information.

The establishment Scales for the two branches and the Surveys require as already pointed out the Sanction of the Govt. of India.

for C.R.
19-9-99

R.
Draft herewith put up.
The establishment scales,
hich have been recast by
is office, accompany the
raft; and these are the
nly enclosures to go to India

JGW 27/9/99

CR

# Travancore Branch

## Abstract Survey Estimate for the Three Divisions

| Division No. | Particulars | Cost per mile<br>Rs | Amount<br>Rs |
|---|---|---|---|
| 1 | Estimate for Staking out and making Minor alterations in the alignment of the 1st Division from Mile 0 to 48 = 48 miles | 286.77 | 13765 |
| 2 | Estimate for Staking out and making Minor alterations in the alignment of the 2nd or Ghat Division from Miles 48 to 72 = 24 miles | 1775.62 | 42615 |
| 3 | Estimate for Staking out and making Minor alterations in the alignment of the 3rd Division from Miles 72 to 103 = 31 miles | 635.16 | 19690 |
| | Total Rs | | 76,070 |

British Section Rs 13765
Travancore Section " 62305
76070

Engineer in Chief's Office
Trichinopoly
27th September 1899

E. S. Alexander.
for Engineer in Chief
JH Le Mesurier
for Ag Agent

3 Pm

# Travancore Branch

Detailed Estimate for Staking out and making minor alterations in the alignment of the First Division from Mile 0 to Mile 48

| | Rs | Rs | Rs |
|---|---|---|---|
| **Survey Expenses** | | | |
| Centre line pegs, Centre line stones and lockspitting at Rs 60 x 48 miles | 2880 | .. | 2880 |
| **Plant** | | | |
| (a) **Tents** | | | |
| One Swiss Cottage Tent 12 x 12 | 403 | | |
| One Hill Tent 12 x 12 | 304 | | |
| One Bechoba tent | 140 | | |
| Six Servants Pals | 360 | | |
| Carriage | 100 | 1307 | |
| (b) **Instruments** | | | |
| Two Theodolites at Rs 600/- | 1200 | | |
| Two Levels at Rs 400/ | 800 | | |
| Four Levelling staves at Rs 50/- | 200 | | |
| Thirty Six Ranging Rods at Rs 3/- | 108 | | |
| Four measuring Chains at Rs 10/- | 40 | | |
| Other Items of Plant | 1000 | | |
| | 3348 | | |
| Deduct 75 per Cent on Value of Stores returned | 2511 | 837 | 2144 |
| **Establishment** | | | |
| 1 Assistant Engineer for one month | 500 | | |
| 3 Assistant Engineers at Rs 400 per mensem for Varying periods | 4063 | | |
| Carried over | 4563 | | 5024 |

Deta-
-in

4 Br

|  | Rs | Rs | Rs |
|---|---|---|---|
| Brought forward | 4563 |  | 5024 |
| 2 Surveyors at Rs 150/- per mensem for Varying periods | 321 |  |  |
| 1 Surveyor at Rs 125/- per mensem for 2 months & 5 days | 270 |  |  |
| 1 Surveyor at Rs 80/- per mensem for 3 months & 11 days | 268 |  |  |
| 1 Clerk at Rs 40/- per mensem for 4 months & 11 days | 179 |  |  |
| Proportionate Salary of tracers at Head Quarters | 410 |  |  |
| 30 Lascars at Rs 8/- per mensem for Varying periods | 1180 |  |  |
| Travelling allowances | 1350 |  |  |
| Office Expenses | 100 |  |  |
| Contingencies | 100 |  | 8741 |
| Total Rs |  |  | 13765 |

Engineer in Chief's Office
Trichinopoly
27th September 1899

E. S. Alexander.
for Engineer in Chief

APG

ENG. No E.B.C. No 5476 of 1892
LETTER No. 983 2/10/99
4.
FROM

Prob

# Travancore Branch.

Detailed Estimate for realigning and staking out the 2nd or Ghat Division. Miles 48 to 72.

| | Rs. | Rs. | Rs. |
|---|---|---|---|
| Survey Expenses. | | | 5/Pr |
| Clearing jungle Rs 300 x 24 miles | 7,200. | | |
| Centre line pegs, centre line stones, bench marks, locks-pitting &c Rs 200 x 24 miles --- | 4,800 | | 12,000. |
| Plant. | | | |
| (a) Tents. | | | |
| 1 Swiss Cottage tent 13 x 13 --- | 442. | | |
| 2 ______ do ______ 12 x 12 at Rs 403 | 806. | | |
| 2 Hill Tents 12 x 12 at Rs 304/- -- | 608. | | |
| 16 Servants Pals at Rs 60/- --- | 960. | | |
| 1 Necessary tent at Rs 40/- --- | 40 | 2,856 | |
| (b). Instruments. | | | |
| Two Theodolites at Rs 600/- -- | 1,200. | | |
| Three Levels at Rs 400/- ---- | 1,200. | | |
| Six Levelling Staves at Rs 50/- | 300. | | |
| Sixty Ranging rods at Rs 3/- | 180. | | |
| Five measuring chains at Rs 10/- | 50. | | |
| Other Items of Plant ---- | 2,000. | | |
| | 4,930 | | |
| Deduct 75 per cent on value of Stores returned -- | 3698 | 1232 | 4,088 |
| Establishment. | | | |
| 1. Executive Engineer at Rs 800/- per mensem for 3 months and 18 days | 2,865 | | |
| 1 Assistant Engineer at Rs 500/- per mensem for 7 months | 3,500. | | |
| 1 Assistant Engineer at Rs 400/- per mensem for 6 months | 2,400 | | |
| Carried over. | 8,765 | | 16,088. |

| Detls | Rs | Rs | Rs. |
|---|---|---|---|
| Brought forward | 8,765 | | 16,088 |
| 2 Surveyors at Rs 200/- per mensem 1 for 7 months & 3 days & 1 for 7 months. | 2,974 | ✓ | |
| 1 Clerk at Rs 40/- per mensem for 7 months and 3 days. | 284. | ✓ | |
| 1 Draftsman at Rs 50/- per mensem for 7 months | 350. | ✓ | |
| Proportionate salary of 19 Tracers at Head Quarters | 232. | | |
| 1 Apothecary at Rs 50/- for 7 months and 16 days. | 376. | ✓ | |
| 60 Lascars at Rs 9/- per mensem for 7½ months | 4,050 | | |
| Travelling Allowances - - | 3,600 | | |
| Hill Allowances - - - - - | 2,616 | | |
| Office Expenses - - - - - - | 280. | | |
| Contingencies - - - - - - | 3000 | | 26527 |
| | Total | Rs. | 42,615. |

Engineer-in-Chief's Office,
Trichinopoly.
27th September 1899.

E. S. Alexander
for Engineer-in-Chief.

Enc. No. 2 5176 1899
Letter No. 983 3/10/99
From A

Print

## Travancore Branch.

## Detailed Estimate for staking out and making minor alterations in the alignment of the 3rd Division from Miles 72 to 103.

| | | | |
|---|---|---|---|
| | | | 31<br>7/Pr |
| **Survey Expenses.** | | | |
| (a) Centre line pegs, clearing jungle, pillars, lockspitting at Rs 155 × ~~48~~ 31 miles - - - - - | 4,800 | - | 4,800. |
| **Plant.** | | | |
| (a) Tents. | | | |
| One Swiss Cottage tent 14×14 - - | 472. | | |
| One ——— do ——— 12×12 - - | 403. | | |
| Three Hill Tents 12×12 - - - - - | 912. | | |
| 13 Servants Pals - - - - - | 780. | | |
| One necessary tent - - - - | 40 | | |
| Carriage - - - - - - - | 200. | 2,807 | |
| (b) Instruments. | | | |
| Three Theodolites at Rs 600/- - - | 1,800. | | |
| Three Levels at Rs 400/- - - - | 1,200. | | |
| Four Levelling Staves at Rs 50/- | 200. | | |
| Thirty six ranging rods at Rs 3/- | 108. | | |
| 4 Measuring chains at Rs 10/- | 40. | | |
| Other items of Plant - - - - | 1,000. | | |
| | 4,348. | | |
| Deduct 75 per cent on value of Stores returned - - - | 3,261. | 1,087. | 3,894. |
| **Establishment.** | | | |
| 1 Executive Engineer at Rs 700/- per mensem for 4 months | 2,800 ✓ | | |
| 1 Assistant Engineer at Rs 500/- per mensem for 4 months | 2,000 | | |
| 2 Surveyors at Rs 150/- per mensem for 4 months | 1200 | | |
| Carried over - - | 6,000 | | 8,694

| | Rs | Rs | Rs |
|---|---|---|---|
| Brought forward. | 6,000 | . | 8,694. |
| Del<br>clerk on Rs 40/- per mensem for 4 months - - | 160 | ✓ | |
| 1 Draftsman at Rs 45/- per mensem for 4 months . . | 180 | ✓ | |
| Proportionate salary of 19 Tracers at Head Quarters | 276. | | |
| 1 Apothecary at Rs 50/- per mensem for 4 months - - | 200 | ✓ | |
| 40 Lascars at Rs 8/- per mensem for 4 months | 1,280. | | |
| Travelling Allowances - - - | 1,280. | | |
| Office Expenses - - - - - - - | 120. | | |
| Contingencies - - - - - - - | 1,500. | | ✓<br>10,996. |
| Total Rs. | | | 19,690 |

Engineer-in-Chief's Office
Trichinopoly
27th September 1899

E. S. Alexander.
for Engineer-in-Chief

Eng. No. 3 5176 of 1899
Letter No. 983 | 3/10/99
From

---

URGENT.

No. 983

**South Indian Railway Co., Ld.,**
AGENT'S OFFICE,
TRICHINOPOLY, 3rd October 1899.

1 P

From
Ag:
The AGENT,
SOUTH INDIAN RAILWAY,

Print

C. No. 5176
Recd. 5/10/99
En 3.

To
The CONSULTING ENGINEER FOR RAILWAYS,
MADRAS.

Sir,

Pending the submission of the Project Estimate for the Travancore Branch, I have the honor to request that, to regularise expenditure, sanction may be accorded to the accompanying amended Estimate amounting to Rs 76,070 for the Survey of the Branch.

2. The Estimate now sent is in substitution of that embodied in Madras Government Order No 534 Ry: of 5th May 1899. x S. 101

D

I have the honor to be
Sir
Your most obedient servant
M. de Mesnier
for Ag: Agent

1 Enclosure, in 7 Sheets

From
The Agent,
South Indian Railway,
Trichinopoly.

To
The Consulting Engineer for
Railways,
Madras.

Dated } 18
Received }

No.

Enclosure.

---

G.O. No. 1132 Ry 11 Oct 1899

Fo
F ...rm No. 1.

PUBLIC WORKS DEPARTMENT,

RAILWAY BRANCH.

Papers to be read in Proceedings:—

G.O. No. 534.5 Ry d. 5th May 1899 abstract
" 580 Ry . 15 " " abstract
A's No. 500 . . . . . . . 29 " " Quote
" 501 . . . . . . . 29 " " do
" 574 . . . . . . . 31 " " do
" 515 . . . . . . . 31 " " do
Letter to ENC Paumban & Travancore Branch No. 1983 d. 23.6.99 do
" " $\frac{P.17}{1184}$ " 29.6.99
" G.O. from No. $\frac{795}{A}$ Ry d. 20.7.99 Print
Letter to A. No. 2237 d. 20.7.99 Print
A's No. 897 & 931 d. 4th & 14th Septr. 1899 Print letters only not enclos.
~~[illegible] 931 of 14th Septr 1899~~

ORDER.

21 B

The Government of India will be addressed

FORM No. 34. [500 / 1-11-98.] Examiner, Railway Accounts, Madras.
File No.

Issue General Number.
W. R. E.R.
A.G. P. C.R.T. C.
A.M. A. C.A., M.Ry. C.A., S.I.Ry.
S.A., N.Ry. M.
(Misc.)
Enclos.
Dated Despatched
Reminders Issued.
No. 1, dated No. 3, dated
No. 2, dated No. 4, dated
Reply received No. , dated

File No.
Receipt General Number.
W. R. E.R.
A.G. P. C.R.T. C.
A.M. A. C.A., M.Ry. C.A., S.I.Ry.
S.A., N.Ry.
(Misc.)
From
Enclos.
No. dated
Reminders Received.
No. 1, dated No. 3, dated
No. 2, dated No. 4, dated
Reply issued No. , dated

No. 1133 Ry dated 11/10/99.

Proposed draft to the G of I from the Local Govt.

228

Sir,

I am directed to forward for the sanction of the Govt of India Capital establishment rolls for 1899/1900 in connection with the construction of the Pamban & Travancore Branches & also those relating to the surveys of these lines. As the whole of the expenditure, including that on surveys, is debitable to construction a/c, and as no project estimates have, as yet, been sanctioned, this Govt is unable to approve of any portion of the outlay provided for in the several rolls.

I am to add that this communication disposes of the matter dealt with

Flag C

M

in your letter No 1234 R.C d/29. 6. 99. The amalgamation of construction work with Survey will tend to materially reduce the cost of the latter.

SB
26/9/99

FWS
10/10/99 9.10.99

Enclo: Papers below marked A in blue chalk.

---

Form No. 1/E

No 3215/3216

Madras, 23d October 1899

From

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS,

22½ ~~22 P~~ ~~33 P~~

Reminders.

To

~~THE ENGR. IN CHIEF, B. M. Ry.~~

The Agent
S. I. Ry

Reply No.
dated

Vide Flag A

Sir,

With reference to your letters Nos. S/897 and K/931 dated 4th and 14th Septr 1899, I have the honour to approve ~~Sir~~ of the Capital Budget Estimates of the Pamban and Travancore branches for the year 1899-1900 received therewith and to state that the scales of establishment for the construction of the two branches and the surveys have been forwarded to the Government of India for sanction.

AA
20.10.99
for C.E.

23/10/99

Copy to CR ~~with copies of the Budget Estimates~~.

20/10/99

Form No. 33.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,
*Madras*, 23rd October 1899.

No. 3235

Exr. Regn. No. 641
24 OCT. 1889
Enclosures...
RAILWAY ACCOUNTS, MAD

OFFICE NOTE.

Letter from the Agent, South Indian Railway, No. 983, dated 3rd October 1899, forwarded to the Examiner of Railway Accounts. for remarks.

JLd
for E. R.
24.10.99.

24.10.99

EXAMINER'S REPLY.

Please see serial No 108(a)
The Govt of India consider it unnecessary to sanction a survey estimate, now that construction has commenced and expenditure is chargeable to capital a/c, and leave it to the Local Govt to deal with outlay other than that on establishment.
This Govt might approve of the estimate furnished, excluding establishment charges, but this appears unnecessary.
The whole outlay on construction is objectionable for want of a project

estimate and when this is submitted & sanctioned, all expenditure, including that on the survey, will be regularised.

N.B.
for
C.R.
24/10/99

---

Form No. 7.

TELEGRAM ~~URGENT~~ ~~ORDINARY~~ DEFERRED

FROM 33 R. ~~36~~ P

TO Works. Simla

52 B x To aid you in replying my 1133-Pz. dated eleventh October I mention, with reference to last sentence thereof, that revised survey estimate Tavernau Branch which will go into head Preliminary of project estimate, is only ~~Rs. [illegible]~~ 7.6 thousand rupees.

F.K.S.

25/10/99

Despd
28/10

Form No. 1/B.

No. 3266

Madras, 25th october 1899.

From

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS,

Reminders.

To

THE AGENT, S. I. RY.

35

34

Reply No.

dated

SIR,

There is no need at present to sanction the Travancore Branch Survey Estimate which accompanied your No. 983. dated 3rd Oct. 99. That Estimate will doubtless form part of the Project Estimate of the line which Mr. Mitchell is now preparing.

When the Govt. of India's sanction has been received to the Capital Establishment & Rolls which reached me with your No. 931. dated 14th Sept. 99, you shall in due course be formally authorised to work to the Survey Estimate now referred to.

I have &

F.W.S

25/10/99

Despatched on 25/10/99

# Public Works (1899) Department.

RAILWAY BRANCH.

**CURRENT No.** 1326

2 currents

*From* The Govt. of India

*Order*

Telegram No. 2066 RC

*Dated* 26 - 10 - 99

*Received*
*Registered* } 27 - 10. 99

*Enclosures*

*Spare copies.*

SUBJECT.

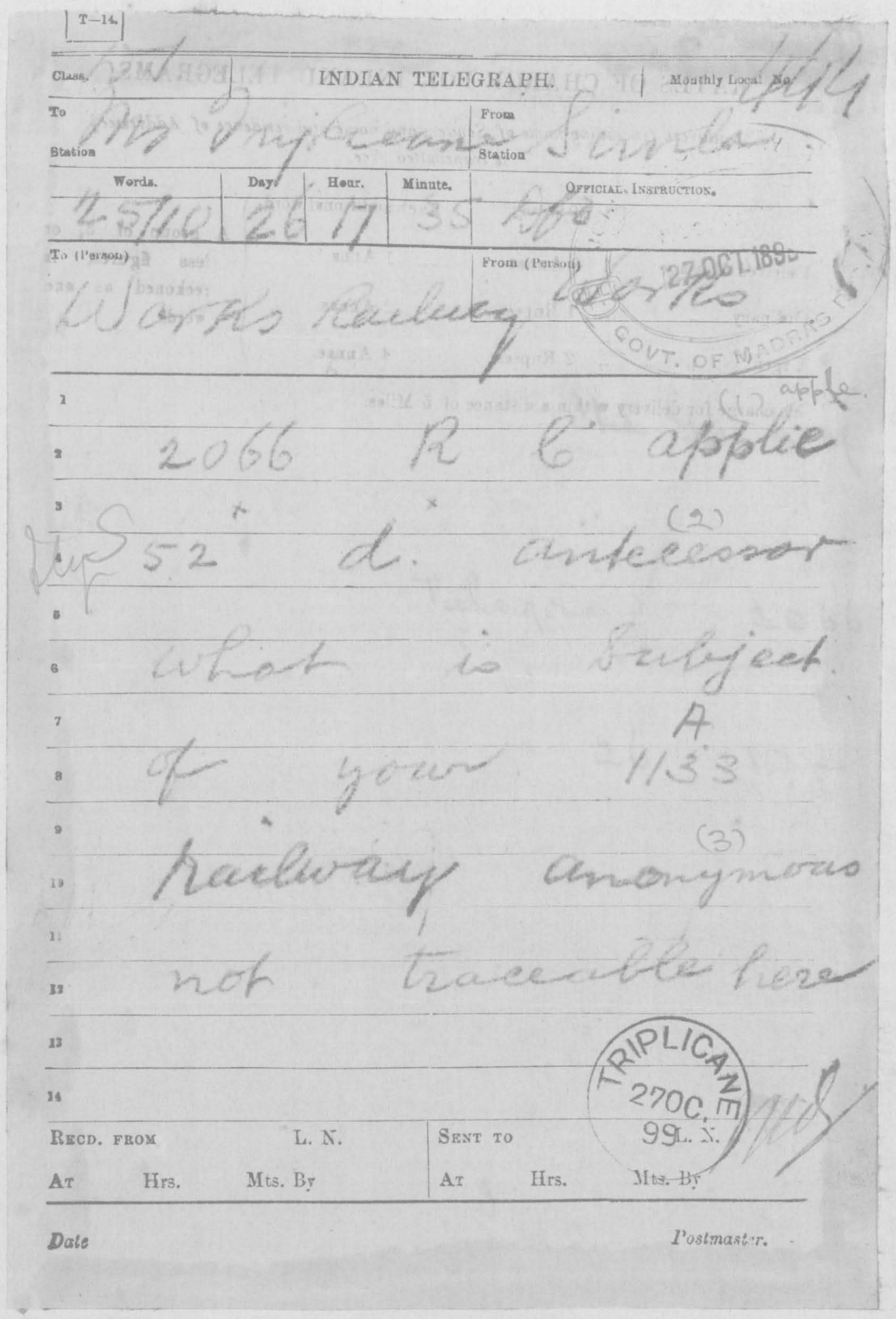
Inquiring the subject of No. 1133 Ry dd. 11th instant

BACK PAPERS.

| No. | Date. |
|---|---|

FURTHER PAPERS.

| No. | Date. |
|---|---|



T—14.

| | | | | |
|---|---|---|---|---|
| Class. | INDIAN TELEGRAPH. | | | Monthly Local No. 14/14 |
| To Station Triplicane | | | From Station Simla | |
| Words. | Day. | Hour. | Minute. | Official Instruction. |
| 25/10 | 26 | 17 | 35 | Affo |
| To (Person) Works Railway | | | From (Person) Works | |

27 OCT 1899
GOVT. OF MADRAS

2066 R C applie (1) apple

52 d. antecessor (2)

what is subject A

of your 1133

railway anonymous (3)

not traceable here

TRIPLICANE
27 OC
99

| | | | |
|---|---|---|---|
| Recd. from | L. N. | Sent to | L. N. |
| At Hrs. | Mts. By | At Hrs. | Mts. By |

Date

Postmaster.

(2) 25th instant
(3) 11th Instant

(1) Your telegram numbered + dated as follows

Form No. 7.

TELEGRAM ~~URGENT~~ ~~ORDINARY~~ DEFERRED

FROM R.

TO Works
Simla

54B + Apple (Referring to your telegram numbered and dated as follows) ~~[illegible]~~ 2066. R. E. C. ~~[illegible]~~ Antedate A (26th instant) Subject of my 1133 Rg anonymous (11th instant) submitting for sanction capital establishment rolls of the Pamban & Travancore branches for current year despatched to Simla on Answerer (16th instant)

27.10.99.

Despd: on 27/10/99.

# Public Works (1899) Department.

RAILWAY BRANCH.

1475k p.e. fr 21/12

**CURRENT No.** 1549

**From** Govt of India

*Order*

No. 2329 R.E.

*Dated* 4 – 12 – 99
*Received*
*Registered* 11 – 12 – 99
*Enclosures*
*Spare copies.*

SUBJECT.

Pamban & Travancore Branches

Sanctioning the Capital Establishment Estimates for the Construction of the ———; and also the Estimates relating to the Surveys of the lines except the amounts provided under Medical.

.I.    Documents accompanying:-
Nil.

## BACK PAPERS.

| No. | Date. |
|---|---|
| | |

## FURTHER PAPERS.

| No. | Date. |
|---|---|
| | |

---

35

36 P

*All communications should be addressed to the Secretary.*

No. 2329 ~~G~~.R.E.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

~~GENERAL~~

RAILWAY ESTABLISHMENTS

SECRETARY TO GOVT. OF MADRAS RYS.
RECEIVED
11 DEC. 1899
C. NO. 1549

To

The Secretary to the Government of Madras,
Public Works Department, Railway Branch.

Calcutta, the 4th December 1899.

Sir,

With reference to your letter No.1133 Railway dated 11th October 1899, I am directed to communicate the sanction of the Government of India, to the Capital Establishment Estimates for 1899-1900 therewith submitted, for the Construction of the Pamban and Travancore Branches, and also those relating to the Surveys of these lines with the exception of the amounts provided under Medical for the District Medical Officers at Madura, Tinnevelly and Quilon in regard to which, it is requested, that details of [illegible] employes that will be under their charge may be furnished.

| | |
|---|---|
| Madura....... | Rs. 50 |
| Tinnevelly and Quilon | Rs.100 |

In supplying this information the European and Eurasian employes should be distinguished from Natives and the latter divided into those drawing Rs.15 and under.

2. It is presumed that the Consulting Engineer has scrutinised the estimates and satisfied himself that the Establishment for which provision is made is absolutely necessary for the work to be done and that the estimates are recommended for sanction by the Government of Madras.

I am to request that this may be clearly expressed in future.

I have the honour to be,
Sir,
Your most obedient servant,
G W Walker
Under Secy. to the Govt. of India.

Documents accompanying:-
Nil.

M.I.

A 7 M

BACK PAPERS.

Form No. 1.

PUBLIC WORKS DEPARTMENT,

RAILWAY BRANCH.

Papers to be read in Proceedings :—

C Letter from A No. 983 d 3.10.99 Print with Madras

B G.O. No. 1132-33 Ry d 11.10.99

F Letter to A No. 3215 d 23.10.99 Print

✓ Telegram to Works Simla No. 52 B d 25.10.99 Print

✓ Letter to A No. 3264 d 25.10.99 Print

Letter from India No. 2329 RE d 4.12.99 Print

ORDER. No. 475 Ry dated 18/12/99

36
37 P

Communicated to the Agent, South Indian Railway for information.

2 The Agent is authorized to work to the survey estimate submitted with his letter No 983 dated 3rd October 1899.

3. The information required by the Government of India in regard to the details of the employés that will be under the charge of the District Medical Officers at Madura, Tinnevelly and Quilon ~~in the manner specified~~

PAPERS.

should be furnished as early as possible.

~~4. On receipt of this information, the Government of India will be addressed~~

FJS
14/10/97

To
The Agent S I Ry Co
" Secy S I Ry Co
" Consulting Engr for Rys

dk. 14/10/97