Abstract

Public Works (1899.) Department.

CONCERNS BOTH BRITISH INDIA AND INDIAN STATES.

RAILWAY BRANCH.

G.O., No. 144 Ry

DATED 6th February 1899.

Includes.

G.O. No. 1324-25 Ry dy 27-10-98
Do 1559-60 Ry dy 19-12-98

[Despatch Abstract.]

Shoranur Cochin Railway Survey.

Letter to the Agent & Manager, Moosa's Railway, letter from the Government of India Sanctioning & with remarks the third revised estimate amounting to Rs 32,350, of the cost of the final location of the _____.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

RAILWAY.

Government {1899} of Madras.

PUBLIC WORKS.

Recd. } 1899. *Enclosures*

Regd. *Spare copies*

G.O., No. 144 Ry., 6th February 1899.

FEBRUARY.

Shoranur-Cochin Railway Survey

Communicating to the Agent and Manager, Madras Railway, letter from the Government of India sanctioning, with remarks, the third revised estimate amounting to Rs. 32,350 of the cost of the final location of the — .

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read again the following papers :—

G.O., No. 1324 Ry., dated 27th October 1898.

G.O., No. 538 Ry., dated 6th April 1898.

Read also the following papers :—

From—The Agent and Manager, Madras Railway.
To—The Consulting Engineer for Railways, Madras.
Dated—Madras, 5th October 1898, No. 9097/952.

In compliance with the request contained in your letter, No. 146/O. of the 12th ultimo, I have the honour to forward herewith, for the sanction of Government, a revised estimate for the Shoranur-Cochin Survey.

ENCLOSURES.

SHORANUR-COCHIN RAILWAY SURVEY.

General Abstract Estimate.

	Abstract.	
	Sub-head.	Main head.
Preliminary Expenses.	Rs.	Rs.
I. Survey Expenses—		
(*a*) Field Expences	5,492	
(*b*) Office ,, ...	1,283	
II. Plant—		6,775
(*a*) Tents	1,845	
(*b*) Furniture	518	
(*c*) Instruments	3,882	
(*d*) Tools	170	
III. Establishment	..	6,415
		19,559
Total ..		32,749
Anticipated Credits.		
II. Plant—		
(*a*) Camp Equipage	..	5,800
(*b*) Furniture		
(*c*) Instruments		
Total ..		26,949

I.—Survey Expenses.

Description of work.	Quantity.	Unit.	Rate.	Amount.
(*a*) *Field Expenses.*			Rs.	Rs.
Lockspitting .. .. Miles	73	Mile.	25	1,825
Pegs, large .. .. No.	700	100	8	56
,, small .. .. ,,	7,000	100	4	280
Mallets .. .. ,,	10	Each.	1	10
Compensation for crops .. .. .. Miles	73	Mile.	30	2,190
Cart-hire, five carts .. .. Days	..	..	..	400
Coolies, jungle-cutting	..	..	..	400
Rope strings, &c.	..	..	..	25
Cloth for flags	..	..	..	15
Paint	..	..	..	15
Nail screws	..	..	..	15
Contingencies, 5 per cent. ..	..	..	..	5,231
	..	..	..	261
Total, (*a*) Field Expenses ..	..	..	..	5,492
(*b*) *Office Expenses.*				
Stationery	..	..	..	300
Forms, books, &c.	..	..	..	200
Paper, double elephant .. .. .. Qrs.	..	..	..	68
,, mounted-rolls .. .. .. Rolls	..	..	..	160
Tracing cloth .. .. ,,	..	..	..	360
Section paper .. .. Qrs.	..	..	..	80
Drawing pins, colours, pencils, rubber, &c. ..	..	..	..	54
Contingencies, 5 per cent. ..	..	..	..	1,222
	..	..	..	61
Total (*b*) Office Expenses ..	..	..	..	1,283

II.—Plant.

Description.	Quantity.	Unit.	Rate.	Amount.	Carriage.	Total.
(*a*) *Camp Equipage.*						Rs.
Tent, large .. .. No.						
,, office .. .. ,,						
,, small .. .. ,,	..	..	..	..	..	1,758
,, lascars' .. .. ,,						
,, necessary .. .. ,,						
,, baggage .. .. ,,						
Contingencies, 5 per cent. ..	..	..	..	..	..	1,758
	..	..	..	..	..	87
Total, (*a*) Camp Equipage ..	..	..	..	..	..	1,845

(*b*) *Furniture.*	Quantity.	Unit.	Rate.	Amount.
			Rs. A. P.	Rs.
Table, drawing .. .. No.	2	..	25 0 0	50
,, office .. .. ,,	2	..	30 0 0	60
,, ,, ... ,,	4	..	10 0 0	40
Chairs .. .. ,,	10	..	3 8 0	35
Stools .. .. ,,	4	..	3 0 0	12
Stationery chest .. .. ,,	2	..	20 0 0	40
Cash safe .. .. ,,	1	..	50 0 0	50
Plan boxes .. .. ,,	3	..	10 0 0	30
Camp boxes .. .. ,,	6	..	6 0 0	36
Despatch boxes .. .. ,,	2	..	20 0 0	40
Medicine chest, full .. .. ,,	2	..	20 0 0	40
Lanterns .. .. ,,	6	..	6 0 0	36
Padlocks .. .. ,,	12	..	2 0 0	24
Contingencies, 5 per cent. ..	..	..	..	493
	..	..	..	25
Total, (*b*) Furniture ..	..	..	..	518

II. Plant—cont.

Description.	Quantity.	Unit.	Rate.	Amount.
(*c*) *Instruments.*				
Theodolites, 5″ .. .. No.	2	Each.	Rs. A. P. 540 0 0	Rs. 1,080
Levels, 14″ .. .. ,,	4	,,	300 0 0	1,200
Level staves .. .. ,,	8	,,	90 12 0	726
Ranging rods .. .. ,,	31	,,	3 0 0	93
Drawing boards, 41 × 28 .. .. .. ,,	2	,,	18 0 0	36
Parallel rulers, 18″ × 24″ .. .. .. ,,	4	,,	20 0 0 / 28 0 0	48
Chain with arrows, 100′ .. .. .. ,,	5	,,	17 0 0	68
Umbrellas .. .. ,,	1	,,	7 0 0	35
Compass, prismatic, 3½″ .. .. .. ,,	3	,,	80 0 0	80
Instrument boxes, second class .. .. ,,	4	,,	35 0 0	105
Drawing pens .. .. ,,	1	,,	2 0 0	8
Stencil plates .. .. ,,	1	,,	25 0 0	25
Steel, straight edge, 36″ .. .. .. Set.	4	,,	21 0 0	21
Tapes, 100 feet, metallic .. .. .. No.	4	,,	13 0 0	52
,, 50 feet, ,, ... ,,	1	,,	8 8 0	34
Ceylon ghat tracer .. .. ,,	2	,,	30 0 0	30
Bronze crow staff leads .. .. ,,	2	,,	7 8 0	15
Scales .. .. ,,	1	,,	8 8 0	17
Curves .. .. Cases.	2	,,	20 0 0	20
Set squares, 10″ .. .. Set.	1	,,	2 8 0	5
.. .. ,,	2	,,		
Contingencies, 5 per cent. ..	..	..	..	3,698
Total, (*c*) Instruments ..	..	..	..	184
	..	..	..	3,882
(*d*) *Tools.*				
Mamooties				
Picks .. .. No.	24	Each.		
Shovels .. .. ,,	12	,,	1 0 0	24
Axes .. .. ,,	6	,,	1 0 0	12
Crowbars .. .. ,,	24	,,	2 0 0	12
Hammers of sizes .. .. ,,	6	,,	3 0 0	72
Brands .. .. ,,	6	,,	3 0 0	18
.. .. ,,	2	,,	3 0 0	18
Contingencies, 5 per cent. ..	..	..	..	6
Total (*d*) Tools ..	..	..	..	162
	..	..	..	8
				170

III.—Establishment.

Designation.	Monthly salary of office.	Travelling allowance per month.	Total per month.	Total.
	Rs.	Rs.	Rs.	Rs. A. P.
1 Executive Engineer	850	150	1,000	5,781 4 10
1 Senior Assistant Engineer	450	150	600	4,485 7 10
1 Junior ,, ,, ...	200	60	260	780 0 0
4 Surveyors	100 to 175	25 to 60	695	4,131 4 7
4 Clerks	100 and under.	..	200	1,306 2 4
3 Draftsmen	100 and under.	..	150	733 15 8
4 Peons	8	..	32	216 15 6
30 Lascars	9	..	270	1,727 9 1
Contingencies ..	..	..	..	19,162 11 10
Total ..	..	..	..	395 5 10
	..	..	..	19,558 1 8

Order—No. 1324 Ry., dated 27th October 1898.

The Government of India will be addressed.

From—The Joint Secretary to the Government of Madras, P.W. Dept., Ry. Branch.
To—The Secretary to the Government of India, Public Works Department.
Dated—27th October 1898, No. 1325 Ry.

With reference to your letter No. 371 R.C., dated 19th March 1898, communicating the sanction of the Government of India to the revised estimate amounting to Rs. 26,949 of the cost of the final location of the proposed Shoranur-Cochin branch of the Madras Railway, I am directed to forward herewith a second revised estimate for the same amount with an increase of Rs. 3,311 under sub-head "III. Establishment" which is covered by savings under the sub-heads "I. Survey expenses" and "II. Plant." As however the present estimate provides for the retention of a portion of the superior Engineering staff for a period in excess of that contemplated in the estimate already sanctioned, it is forwarded to the Government of India with a recommendation that the revised estimate now submitted be sanctioned.

From—The Secretary to the Government of India, Public Works Department.
To—The Joint Secretary to the Government of Madras, P.W. Dept., Ry. Branch.
Dated—Simla, 21st November 1898, No. 1813 R.C.

I am directed to acknowledge the receipt of your letter, No. 1325, Railway, dated 27th October 1898, and in reply to convey the sanction of the Government of India to the revised estimate submitted therewith, amounting to Rs. 26,949, of the cost of the final location of the proposed Shoranur-Cochin branch of the Madras Railway.

2. It is observed that the excess of Rs. 3,311 under the sub-head "Establishment" will be covered by savings under the sub-heads "Survey expenses" and "Plant."

3. This sanction which is in supersession of the sanction accorded in Public Works Department letter, No. 371 R.C., dated 19th March 1898, is chargeable to the head "41. Miscellaneous Railway Expenditure" and has been registered as No. 5, Railway Surveys, of 1898–99.

From—The Agent and Manager, Madras Railway.
To—The Consulting Engineer for Railways, Madras.
Dated—Madras, 30th November 1898, No. 9097/1145.

I have the honour to enclose, for your information, copy of a letter from the Company's Chief Engineer, No. C. 8383/1565 of the 29th instant, on the subject of anticipated excess over the estimate for the Shoranur-Cochin Railway Survey.

Enclosure.

From—The Chief Engineer, Madras Railway Company.
To—The Agent and Manager, Madras Railway.
Dated—Madras, 29th November 1898, No. C/8383/1565.

At a recent interview with the Consulting Engineer at which Mr. Stevenson, the Assistant Engineer in charge of the survey, was present, the plans and sections prepared by the latter officer were scrutinized by the Consulting Engineer. The latter suggested alterations in the alignment along the selected routes which will involve additional field work, but which, it is anticipated, will be compensated for by the selection of more favourable routes in the portion referred to.

2. It is anticipated that in consequence of this additional field work, together with the heavy expenditure incurred on the survey of the first 30 miles, that the estimate sanctioned in G.O., No. 538 of 6th April 1898, will be exceeded by Rs. 5,400.

3. I therefore propose to submit a revised estimate for formal sanction at an early date.

From—The Agent and Manager, Madras Railway.
To—The Consulting Engineer for Railways, Madras.
Dated—Madras, 15th December 1898, No. 9097/1201.

In continuation of my letter, No. 9097,/1145 of the 30th ultimo, I have the honour to forward herewith copy of a letter from the Company's Chief Engineer, together with the estimate therein referred to and shall be obliged if under the circumstances explained you will be so good as to communicate to me the sanction of Government to the revised estimate.

Enclosures.

From—The Chief Engineer, Madras Railway Company.
To—The Agent and Manager, Madras Railway.
Dated—Madras, 10th December 1898, No. C. 1653.

In continuation of my letter, No. C. 8383/1565 of 29th ultimo, I beg to submit herewith a revised estimate amounting to Rs. 32,350, equivalent to Rs. 498 per mile, for the survey of the proposed Shoranur-Cochin Railway, being Rs. 5,400 in excess of the sum sanctioned in G.O., No. 538, dated 5th April 1898.

2. The first portion of the survey (30 miles) was made through comparatively difficult country under the direction of Mr. Dallas at an expenditure of Rs. 18,333–2–4, equivalent to Rs. 611 per mile.

3. On the remaining portion of the line (35 miles) the expenditure up to the end of September has been Rs. 847–14–5, or a total expenditure of Rs. 19,181–0–9 against the sanctioned estimate of Rs. 26,949, leaving a balance of Rs. 7,767–15–3 against which expenditure for October, November and December has yet to be debited.

4. It is anticipated that with the additional field work yet to be done, together with the preparation of the plans and project estimate, a further provision amounting to Rs. 5,400 (inclusive of establishment for at least three and a-half months) over the revised estimate submitted with my letter No. C./1320 of 3rd October 1898, will be necessary.

5. With this explanation, I shall be much obliged if you will kindly obtain the early sanction of Government to the revised estimate now forwarded.

SHORANUR-COCHIN RAILWAY SURVEY.

General-Abstract Estimate.

	Abstract.	
	Sub-head.	Main head.
Preliminary Expenses.		
I. Survey Expenses—		
(*a*) Field Expenses	Rs. 6,006	Rs.
(*b*) Office ,,	1,283	
		7,289
II. Plant—		
(*a*) Tents	1,758	
(*b*) Furniture	493	
(*c*) Instruments	1,489	
(*d*) Tools	170	
		3,910
III. Establishment		23,151
Total		34,350
Anticipated Credits.		
II. Plant—		
(*a*) Camp Equipage		
(*b*) Furniture		
(*c*) Instruments		2,000
Total		32,350

I.—Survey Expenses.

Description of work.	Quantity.	Unit.	Rate.	Amount.
			Rs. A. P.	Rs.
(*a*) *Field Expenses.*				
Lockspitting .. .. Miles.	65	Mile.	30 12 4	2,000
Pegs, large .. .. No.	850	100	8 0 0	68
,, small .. .. ,,	8,000	100	4 0 0	320
Mallets .. .. ,,	12	Each.	1 0 0	12
Compensation for crops .. .. Miles.	65	Mile.	35 0 0	2,275
Cart-hire, five carts	..	..	..	450
Coolies, jungle-cutting	..	..	..	500
Rope strings, &c.	..	..	..	35
Cloth for flags	..	..	..	20
Paint	..	..	..	20
Nail screws	..	..	..	20
Contingencies ..	..	..	..	5,720
Total, (*a*) Field Expenses ..	..	..	..	286
	..	..	..	6,006
(*b*) *Office Expenses.*				
Stationery	..	..	..	300
Forms, books, &c.	..	..	..	200
Paper, double elephant	..	..	..	68
,, mounted	..	..	..	160
Tracing cloth	..	..	..	360
Section paper	..	..	..	80
Drawing pins, colours, pencils, rubber, &c.	..	..	..	54
	..	..	..	1,222
Contingencies, 5 per cent. ..	..	..	..	61
Total, (*b*) Office Expenses ..	..	..	..	1,283

II.—Plant.

Description.	Quantity.	Unit.	Rate.	Amount.	Carriage.	Total.
(*a*) *Camp Equipage.*						Rs.
Tents, large .. .. No.						
,, office .. .. ,,						
,, small .. .. ,,	..	..	..	..	..	1,758
,, Inscars' .. .. ,,						
,, necessary .. .. ,,						
,, baggage .. .. ,,						
Total, (*a*) Camp Equipage ..	..	..	..	..	..	1,758

	Quantity.	Unit.	Rate.	Amount.
(*b*) *Furniture.*			Rs. A. P.	Rs. A. P.
Table, drawing .. .. No.	2	Each.	25 0 0	50 0 0
,, office .. .. ,,	2	,,	30 0 0	60 0 0
,, office .. .. ,,	4	,,	10 0 0	40 0 0
Chairs .. .. ,,	10	,,	3 8 0	35 0 0
Stools .. .. ,,	4	,,	3 0 0	12 0 0
Stationery chest .. .. ,,	2	,,	20 0 0	40 0 0
Cash safe .. .. ,,	1	,,	50 0 0	50 0 0
Plan boxes .. .. ,,	3	,,	10 0 0	30 0 0
Camp boxes .. .. ,,	6	,,	6 0 0	36 0 0
Despatch boxes .. .. ,,	2	,,	20 0 0	40 0 0
Medicine chest, full .. .. ,,	2	,,	20 0 0	40 0 0
Lanterns .. .. ,,	6	,,	6 0 0	36 0 0
Padlocks .. .. ,,	12	,,	2 0 0	24 0 0
Total, (*b*) Furniture ..	..	..	..	493 0 0

II.—Plant—cont.

Description.	Quantity.	Unit.	Rate.	Amount.
(c) Instruments.				
			Rs. A. P.	Rs. A. P.
Theodolites, 5"	1	Each.	540 0 0	540 0 0
Level staves .. .. No.	8	,,	38 0 0	304 0 0
Ranging rods .. .. ,,	31	,,	3 0 0	93 0 0
Drawing boards, 41 × 28 .. .. ,,	2	,,	18 0 0	36 0 0
Parallel rulers .. .. ,,	2	,,	4 8 0	9 0 0
Chain with arrows, 100' .. .. ,,	4	,,	14 0 0	56 0 0
Umbrellas .. .. ,,	5	,,	7 0 0	35 0 0
Compass, prismatic, 3½" .. .. ,,	1	,,	90 0 0	90 0 0
Instrument boxes, second class .. .. ,,	2	,,	35 0 0	70 0 0
Drawing pens .. .. ,,	4	,,	2 0 0	8 0 0
Stencil plates .. .. ,,	1	,,	25 0 0	25 0 0
Steel, straight edge, 36" .. .. Set.	1	,,	21 0 0	21 0 0
Tapes, 100 feet, metallic .. .. No.	4	,,	13 0 0	52 0 0
,, 50 feet, ,, ... ,,	4	,,	8 8 0	34 0 0
Ceylon ghat tracer .. .. ,,	1	,,	30 0 0	30 0 0
Bronze crow staff leads .. .. ,,	2	,,	7 8 0	15 0 0
Scales .. .. ,,	2	,,	8 8 0	17 0 0
Curves .. .. ,,	1	,,	4 0 0	4 0 0
Set squares, 10" .. .. Cases.	2	,,	2 4 0	4 8 0
Angle meter, in case, with tripod stand .. .. Set.	1	,,	45 0 0	45 0 0
Total, (c) Instruments ..	..	..	..	1,488 8 0
(d) Tools.				
Mamooties .. .. No.	24	Each.	1 0 0	24 0 0
Picks .. .. ,,	12	,,	1 0 0	12 0 0
Shovels .. .. ,,	6	,,	2 0 0	12 0 0
Axes .. .. ,,	24	,,	3 0 0	72 0 0
Crowbars .. .. ,,	6	,,	3 0 0	18 0 0
Hammers of sizes .. .. ,,	6	,,	3 0 0	18 0 0
Brands .. .. ,,	2	,,	3 0 0	6 0 0
Contingencies, 5 per cent ..	..	..	..	162 0 0
Total, (d) Tools ..	..	..	..	170 0 0

III.—Establishment.

Designation.	Monthly salary of office.	Travelling allowance per month.	Total per month.	Total.
	Rs.	Rs.	Rs.	Rs. A. P.
1 Executive Engineer	850	150	1,000	5,781 4 10
1 Senior Assistant Engineer	450	150	600	6,157 15 10
1 Junior ,, ,, ...	200	60	260	1,540 0 0
4 Surveyors	100 to 175	25 to 60	695	5,214 9 11
4 Clerks	100 and under.	..	200	1,255 10 4
3 Draftsmen	100 and under	..	150	678 5 0
4 Peons	8	..	32	264 15 6
30 Lascars	9	..	270	1,997 9 1
Contingencies ..	..	..	..	22,920 6 6
Total, III. Establishment ..	..	..	..	230 5 10
				23,150 12 4

Order—No. 1559 Ry., dated 19th December 1898.

The Government of India will be addressed.

From—The Joint Secretary to the Government of Madras, P.W. Dept., Ry. Branch.
To—The Secretary to the Government of India, Public Works Department.
Dated—19th December 1898, No. 1560 Ry.

With reference to your letter, No. 1813 R.C., dated the 21st November 1898, I am now directed to forward a further revised estimate of the final location of the Shoranur-Cochin Railway Survey amounting to Rs. 32,350, or Rs. 5,400 in excess of the estimate sanctioned in your above mentioned letter.

2. It is the opinion of this Government that the extra cost now estimated will be recovered many times over in the improved alignment which will be secured by keeping the survey party working for a longer period, and for this reason I am directed to recommend that the sanction now asked for be accorded.

3. The cost of the survey will, so far as can be judged at present, be recovered from the Cochin State.

From—The Secretary to the Government of India, Public Works Department.
To—The Joint Secretary to the Government of Madras, P.W. Dept., Ry. Branch.
Dated—Simla, 26th January 1899, No. 143 R.C.

I am directed to acknowledge the receipt of your letter, No. 1560 Ry., dated 19th December 1898, and in reply to convey the sanction of the Government of India to the third revised estimate submitted therewith, amounting to Rs. 32,350, of the cost of the final location of the Shoranur-Cochin Railway Survey.

2. It is observed that the cost of the survey will, it is anticipated, be eventually recovered from the Cochin State.

3. The sanction accorded in paragraph 1 which is chargeable to the head "41. Miscellaneous Railway Expenditure," is in supersession of the sanction accorded in Public Works Department letter No. 1813 R.C., dated 21st November 1898, and has been registered as No. 14, Railway Surveys, of 1898-99.

Order—No. 144 Ry., dated 6th February 1899.

Communicated to the Agent and Manager, Madras Railway.

(True Extract.)

Francis J. E. Spring,
Joint Secretary.

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

Exd. T. K. Narayana Aiyangar.

Shoranur. Cochin Railway Survey
General abstract - Estimate.

Print
3 M

	Abstract	
	Sub. Head	Main head
	Rs	Rs
Preliminary Expenses		6,775
I Survey Expenses.		
(a) Field Expenses	5,492	
(b) Office — "	1,283	
II Plant		6,415
(a) Tents	1,845	
(b) Furniture	518	
(c) Instruments	3882	
(d) Tools	170	
III Establishment		19,559
Total		32,749
Anticipated credits		
II Plant (a) Camp Equipage		5,800
" (b) Furniture		
" (c) Instruments		
Total Rs		26,949

Madras Railway
Chief Engineer's Office
Madras 3rd October 1878.

sd/
for Chief Engineer

Shoranur- Cochin Railway Survey

Survey Expenses.

(a) Field Expenses
(b) Office Expenses.

Description of work.	Quantity	Unit	Rates	Amount
Lock Spitting ——— Miles	73	Mile	25 " "	1825 " "
Pegs Large ——— No.	700	100	8 " "	56 " "
-do- Small ——— "	7000	100	4 " "	280 " "
Mallets ——— "	10	each	1 " "	10 " "
Compensation for Crops ——— Miles	73	Mile	30 " "	2190 " "
Cart hire & Carts ——— Days				400 " "
Coolies Jungle Cutting ———				400 " "
Rope Strings &c ———				25 " "
Cloth for flags ———				15 " "
Paint ———				15 " "
Nails, Screws ———				15 " "
				5231 " "
Contingencies 5%. ———				261 " "
Total (a) Field Expenses.				5492 " "
Stationery ———				300 " "
Forms Books &c ———				200 " "
Paper Double Elephant ——— Quires				68 " "
-do- Mounted Rolls ——— Rolls				160 " "
Tracing Cloth ——— "				360 " "
Section paper ——— Quires				80 " "
Drawing pins, Colors, Pencils, rubber &c				54 " "
				1222 " "
Contingencies 5%. ———				61 " "
Total (b) Office Expenses.				1283 " "

Shoranur - Cochin Railway Survey

II Plant

(a) Camp Equipage
(b) Furniture.

Print

Description	Quantity	Unit	Rate	Amount	Carriage	Total.
Tent large. — No.						
— Do — Office — "						
— Do — Small — "	-	-	-	- -	- - -	1758 " "
— Do — Lascars — "						
— Do — Necessary — "						
— Do — Baggage — "						
						1758 " "
Contingencies 5%.						87 " "
Total (a) Camp Equipage						1845 " "

Description	Quantity	Unit	Rate	Amount
Table Drawing — No.	2	"	25 " "	50 " "
— Do — Office — "	2	"	30 " "	60 " "
— Do — Do — "	4	"	10 " "	40 " "
Chairs — "	10	"	3 8 " "	35 " "
Stools — "	4	"	3 " "	12 " "
Stationery Chest — "	2	"	20 " "	40 " "
Cash Safe — "	1	"	50 " "	50 " "
Plan boxes — "	3	"	10 " "	30 " "
Camp boxes — "	6	"	6 " "	36 " "
Despatch boxes — "	2	"	20 " "	40 " "
Medicine Chest (full — "	2	"	20 " "	40 " "
Lanterns — "	6	"	6 " "	36 " "
Pad locks — "	12	"	2 " "	24 " "
				493 " "
Contingencies 5%.				25 " "
Total (b) Furniture				518 " "

Shoranur Cochin Railway Survey

II Plant (4) Instruments 6 Nos

Description		Quantity	Unit	Rate	Amount
Theodolites 5"	No.	2	each	540	1080
Levels 14"	"	4	"	300	1200
Level Staves	"	8	"	90	726
Ranging Rods	"	31	"	3	93
Drawing Boards 41 x 28	"	2	"	18	36
Parallel Rulers 18 x 24"		2		20	48
Chain with arrows 100 ft	"	4	"	28 / 17	68
Umbrellas	"	5	"	7	35
Compass Prismatic 3 1/2"	"	1	"	80	80
Instrument boxes 2nd Class	"	3	"	35	105
Drawing pens	"	4	"	2	8
Stencil Plates	Set	1	"	25	25
Steel Straight edge 36"	No.	1	"	21	21
Tapes 100 ft Metallic	"	4	"	13	52
—do- 50 ft —do—	"	4	"	8 8	34
Ceylon Ghat Tracer	"	1	"	30	30
Bronze Cross Staff heads	"	2	"	7 8	15
Scales	Cases	2	"	8 8	17
Curves	Set	1	"	20	20
Set Squares 10"	"	2	"	2 8	5
					3698
Contingencies 5%.					184
Total (C) Instruments					3.882

Shoranur-Cochin Railway Survey.

II Plan (d) Tools.

Description	Quantity	Unit	Rate	Amount
Mamoottis ——— No.	24	each	1——	24——
Picks ——— "	12	"	1——	12——
Shovels ——— "	6	"	2——	12——
Axes ——— "	24	"	3——	72——
Crow bars ——— "	6	"	3——	18——
Hammers of sizes ——— "	6	"	3——	18——
Brands ——— "	2	"	3——	6——
				162——
		Contingencies	5%.	8——
		Total (d) Tools.		170——

Shoranur - Cochin Railway Survey

III Establishment.

Designation	Monthly Salary of Office	Travelling allowance per month	Total per month	Total
1. Executive Engineer	850	150	1000 " "	5781 4 10
1. Senior Assistant Engineer	450	150	600 " "	4485 7 10
1. Junior — do — — do —	200	60	260 " "	780 " "
4 Surveyors	100 to 175	25 to 60	695 " "	4131 4 7
4. Clerks	100 & under	"	200 " "	1306 2 4
3. Draftsman	100 & under	"	150 " "	733 15 8
4. Peons	8	"	32 " "	216 15 6
30. Lascars	9	"	270 " "	1727 9 1
				19162 11 10
Contingencies				395 5 10
	Total Rupees.			19558 1 8

(No. I.)

5000-15-3-88.

No. 9017.

952 **MADRAS RAILWAY.**

AGENT AND MANAGER'S OFFICE.

MADRAS, 5th October 1898.

From

The Agent and Manager,

Madras Railway Company,

To

The Consulting Engineer for Railways.

Madras.

SIR,

In compliance with the request contained in your letter No. 146/6 of the 12th ultimo, I have the honour to forward herewith for the sanction of Government, a revised estimate for the Shoranur-Cochin Survey.

I have the honor to be,
Sir,
your most obedient Servant,

Encl. 1.

Agent & Manager.

Form No. 1.

PUBLIC WORKS DEPARTMENT.

RAILWAY BRANCH.

SERIAL No. 23

Papers to be read in Proceedings:—

Again G.O., dated ~~1st February~~ 1898, No. ~~174 R~~

Again G.O., dated 6th April 1898, No. 538 R

The Current No. ~~4089~~ of 1898, dated ~~8th Oct~~, from ~~Agent & Engrs~~ S.M.R.

ER " " 4629 " 1898 " 6th Oct, " —do—

Print " " 189 , "

ORDER. No 1324 Rv 8/27/10/98.

The Government of India to be addressed

To No 1325 Rv 8/27/10/98.

The Secretary to the Government of India P.W.D. Simla

Sir,

With reference to your letter No. 371-R.C.2 (4) of March 98, communicating the sanction of the Government of India to the revised Estimate amounting to Rs. 26949 for the trial location of the proposed Shoranur-Cochin branch of the Madras Railway and directed to

forward herewith a second revised Estimate for the same amount with an increase of Rs. 331/ under Sub-head "III Establishment" which is covered by savings under the subheads "I Survey & Spences" and "II Plant". As however the present revised Estimate provides for the retention of a portion of the Superior Engineering Staff for a period in excess of that contemplated in the Estimate already sanctioned, it is forwarded to the Government of India with a recommendation that the revised Estimate now submitted be Sanctioned -

22.10.98.

Despatched on 28/10/98

Public Works (1898) Department.

Railway

CURRENT No. 1403

Draft sent to A.M

From

The Govt of India

Order

Await a precise estimate which I hope the M. R. C. will shortly send in.

No. 1813. R.C

7/11.

28/11/98

Dated 21st November 1898

Received

Registered 28-11-98

Enclosures

Spare copies

SUBJECT.

Shoranur - Co-chin Branch.

Sanctioning with remarks the revised Estimate, amounting to Rs. 26,949 of the cost of the final location of the proposed —. of the M. Ry

K.B. Nil.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

No. 1813 R.C.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

RAILWAY CONSTRUCTION.

JOINT SECRETARY TO GOVT. OF MADRAS RYS. RECEIVED 28 NOV. 1898

All communications should be addressed to the Secretary.

PLEASE REPLY TO SIMLA. ~~CALCUTTA~~

N 18

Print

To

The Joint Secretary to the Government of Madras,

Public Works Department, Railway Branch.

Simla, the 21st November 1898.

Sir,

I am directed to acknowledge the receipt of your letter No.1325 Ry. dated 27th October 1898, and in reply to convey the sanction of the Government of India to the revised estimate, submitted therewith, amounting to Rupees 26.949, of the cost of the final location of the proposed Sheranur-Cochin branch of the Madras Railway.

2. It is observed that the excess of Rs.3,311 under the sub-head "Establishment" will be covered by savings under the sub-heads "Survey Expenses" and "Plant."

3. This sanction which is in supersession of the sanction accorded in Public Works Department letter No.371 R.C., dated 19th March 1898, is chargeable to the head "41-Miscellaneous Railway Expenditure" and has been registered as No.5 Railway Surveys of 1898-99.

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

C.P.L.

Offg. Under Secretary.

N.B. Document accompanying:-
Nil.

Madras Railway Company
Chief Engineer's Office
Madras 29th Nov. 1898

No 6/8383/1565

The Agent and Manager

H.S. Print

Dear Sir,

Shoranur-Cochin Railway

At a recent interview with the Consulting Engineer at which Mr. Stevenson the Assistant Engineer in charge of the Survey was present, the plans and sections prepared by the latter officer were scrutinized by the Consulting Engineer. The latter suggested alterations in the alignment along the selected routes which will involve additional field work, but which it is anticipated will be compensated for by the selection of more favourable routes in the portions referred to.

2. It is anticipated that in consequence of this additional field work together with the heavy expenditure incurred on the Survey of the first 30 miles, that the estimate Sho 16 sanctioned in G.O. No. 538 of 6th April 1898 will be exceeded by Rs 5,400/-

3. I therefore propose to submit a revised estimate for formal sanction at an early date

True Copy

Yours faithfully

(sd) Jas. M. Ewing
for Chief Engineer

for Agent and Manager.

(No. I.)

5000-15-3-88.

SERIAL No. 25

No. 9097/1145

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE,

MADRAS, 30th November 1898.

Printed

5648 1-12-98

From

CONSULTING ENGINEER FOR RAILWAYS RECEIVED 1-DEC.1898 MADRAS.

The Agent and Manager,

Madras Railway Company,

To

The Consulting Engineer for Railways.

Madras.

SIR,

I have the honour to enclose for your information, copy of a letter from the Company's Chief Engineer No. C/8383/1565 of the 29th instant on the subject of anticipated excess over the estimate for the Shoranur Cochin Railway Survey.

I have the honour to be,
Sir,
Your most obedt Servant,

Agent & Manager.

Enc/1.

&c

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer for Railways.

Dated

Rcpd.

No.

188

7092 18 S.P

Madras Railway Company.
Chief Engineer's Office
Madras 10th December 1898.

No. 6/1853.

The Agent and Manager.

Print

Dear Sir,

Shoranur-Cochin Survey.

In continuation of my letter No. C 8383/1565 of 29th ultimo, I beg to submit herewith a revised estimate amounting to Rs 32,350, equivalent to Rs 498/ per mile for the Survey of the proposed Shoranur-Cochin Railway being Rs 5,400, in excess of the Sum sanctioned in G.O. No. 538, dated 5th April 1898.

S No 16

2. The first portion of the Survey – 30 miles – was made through comparatively difficult country under the direction of Mr. Dallas at an expenditure of Rs 18,333-2-4, equivalent to Rs 611. per mile.

3. On the remaining portion of the line-35 miles- the expenditure up to the end of September has been Rs 847-14-5 or a total expenditure of Rs 19,180-2-9 against the sanctioned estimate of Rs 26,949, leaving a balance of Rs 7,767-15-3 against which expenditure for October, November and December has yet to be debited.

4. It is anticipated that with the additional field work yet to be done together with the preparation of the plans and project estimate, a further provision amounting.

MADRAS RAILWAY.

From

The Agent and Manager,

M. R. Co.,

To

The Consulting Engineer

for Railways.

Dated 188

Read

No.

1984 S.I.

amounting to Rs 5,400 (inclusive of Establishment for at least 3½ months) over the revised estimate submitted with my letter No C/1320 of 3rd October 1898, will be necessary.

5. With this explanation, I shall be much obliged if you will kindly obtain the early Sanction of Government to the revised estimate now forwarded.

Yours faithfully.

(D) E. W. Stoney.

Chief Engineer.

(True Copy).

Accd Blake.

Chief Clerk

C/c

ENG. No. 1 ... P.W.C. No. 5908 OF 1898
LETTER NO. 9087 DATED 15/12/98
FROM Am.
1201

(No. 1.)

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE,

MADRAS, _____ 188

No.

From

The Agent and Manager,

Madras Railway Company,

To

The Consulting Engineer for Railways.

SIR,

6000-15-3-88.

Shoranur-Cochin Railway Survey.

General - Abstract Estimate.

Print

12 Vs

		Abstract	
		Sub Head	Main Head.
		Rs	Rs.
	Preliminary Expenses.		
I.	Survey expenses		7,289
	(a) Field expenses	6,006	
	(b) Office "	1,283	
II	Plant		3,910
	(a) Tents	1,758	
	(b) Furniture	493	
	(c) Instruments	1,489	
	(d) Tools	170	
III.	Establishment		23,151
	Total		34,350
	Anticipated Credits		
II.	Plant (a) Camp Equipage		2,000
	" (b) Furniture		
	" (c) Instruments		
	Total Rs ...		32,350

Madras Railway
Chief Engineer's Office
Madras 10th Dec. 1898.

(Sd) E. V. Stoney
Chief Engineer.

13 Nov Print

Shoranur Cochin Railway Survey
III Establishment

Designation	Monthly Salary of office	Travelling allowance per month	Total per month			Total		
1. Executive Engineer	850	150	1,000	"	"	5,781	4	10
1. Senior Assistant — do —	450	150	600	"	"	6,157	15	10
1. Junior — do — do —	200	60	260	"	"	1,540	"	"
4. Surveyors	100 to 175	25 to 60	695	"	"	6,244	9	11
4. Clerks	100 & under	"	200	"	"	1,255	10	4
3. Draftsmen	100 & under	"	150	"	"	678	5	"
4. Peons	8	"	32	"	"	264	15	6
30. Lascars	9	"	270	"	"	1,997	9	1
						22,920	6	6
Contingencies						230	5	10
Total III Establishment						23,150	12	4

Print

Shoranur - Cochin Railway Survey
II Plant (d) Tools.

Description	Quantity	Unit	Rate	Amount
Mamoties ... Nº	24	Each	1 - -	24 - -
Picks ... "	12	"	1 - -	12 - -
Shovels ... "	6	"	2 - -	12 - -
Axes ... "	24	"	3 - -	72 - -
Crowbars ... "	6	"	3 - -	18 - -
Hammers of Sizes ... "	6	"	3 - -	18 - -
Brands ... "	2	"	3 - -	6 - -
				162 - -
Contingencies 5%				8 - -
Total (d) Tools				170 - -

Shoranur - Cochin Railway Survey. 15th

Plant (C) Instruments. Print

Description	Quantity	Unit	Rate	Amount
Theodolites 5" ——— No	1	Each	540 0 0	540 0 0
Level staves ——— "	8	"	38 0 0	304 0 0
Ranging Rods ——— "	31	"	3 0 0	93 0 0
Drawing boards 41×28 ——— "	2	"	18 0 0	36 0 0
Parallel rulers ——— "	2	"	4 8 0	9 0 0
Chain inst. arrows 100 feet ——— "	4	"	14 0 0	56 0 0
Umbrellas ——— "	5	"	7 0 0	35 0 0
Compass Prismatic 3½" ——— "	1	"	90 0 0	90 0 0
Instrument boxes 2" class ——— "	2	"	35 0 0	70 0 0
Drawing Pens ——— "	4	"	2 0 0	8 0 0
Stencil Plates ——— Set	1	"	25 0 0	25 0 0
Steel straight edge 36" ——— No	1	"	21 0 0	21 0 0
Tapes 100 feet metallic ——— "	4	"	13 0 0	52 0 0
—— Do 50 ft —— do ——— "	4	"	8 8 0	34 0 0
Ceylon Ghat Tracer ——— "	1	"	30 0 0	30 0 0
Brouze brow staff heads ——— "	2	"	7 8 0	15 0 0
Scales ——— Cases.	2	"	8 8 0	17 0 0
Curves ——— Set	1	"	4 0 0	4 0 0
Set squares 10" ——— "	2	"	2 4 0	4 8 0
Angle meter in case with Tripod stand ———	1	"	45 0 0	45 0 0
				1488 8 0
			Total (C) Instruments	

Shoranur Cochin Railway Survey
II Plaub

(a) Camp Equipage
(b) Furniture.

16 Mar

Print

Description	Quantity	Unit	Rate	Amount	Carriage	Total
Tent Large — No						
— Do — Office — "						
— Do — Small — "						
— Do — Lascars — "						1758 — —
— Do — Necessary — "						
— Do — Baggage — "						
			Total (a) Camp Equipage . . .			1758 — —

Description	Quantity	Unit	Rate	Amount
Table Drawing — No	2	Each	25 — —	50 — —
— Do — Office — "	2	"	30 — —	60 — —
— Do — Do — "	4	"	10 — —	40 — —
Chairs — "	10	"	3 8 —	35 — —
Stools — "	4	"	3 — —	12 — —
Stationery Chest — "	2	"	20 — —	40 — —
Cash Safe — "	1	"	50 — —	50 — —
Plan Boxes — "	3	"	10 — —	30 — —
Camp — Do — "	6	"	6 — —	36 — —
Despatch — Do — "	2	"	20 — —	40 — —
Medicine chest (full) — "	2	"	20 — —	40 — —
Lanterns — "	6	"	6 — —	36 — —
Padlocks — "	12	"	2 — —	24 — —
			Total (b) Furniture	493 — —

Shoranur-Cochin Railway Survey

Survey Expenses. (a) Field Expenses.
(b) Office Expenses.

Description of Works.	Quantity	Unit	Rate	Amount
Lock spitting ——— miles	65	mile	30 12 4	2,000 — —
Pegs large ——— No	850	100	8 — —	68 — —
—Do— small ——— "	8,000	100	4 — —	320 — —
Mallets ——— "	12	Each	1 — —	12 — —
Compensation for crops ——— miles	65	mile	35 — —	2,275 — —
Cart Hire - 5 carts ———				450 — —
Coolies - Jungle cutting ———				500 — —
Rope strings &c ———				35 — —
Cloth for flags ———				20 — —
Paint ———				20 — —
Nail Screws ———				20 — —
				5,720 — —
Contingencies ———				286 — —
Total (a) Field Expenses ...				6,006 — —
Stationery ———				300 — —
Forms, Books &c ———				200 — —
Paper Double Elephant ———				68 — —
—Do— mounted ———				160 — —
Tracing cloth ———				360 — —
Section paper ———				80 — —
Drawing Pins, Colors, Pencils, Rubber &c				64 — —
				1222 — —
Contingencies 6% ———				61 — —
Total (b) Office Expenses -				1283 — —

Urgent

(No. I.)

No. 9097

1201

20 P.

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE,

Madras, 15th December 1898

Print

From

CONSULTING ENGINEER FOR RAILWAYS. RECEIVED 16 DEC. 1898 MADRAS.

G. No. 5908 Dated 16/12/98.

The *Agent and Manager.*
M. R. Co.

To

The *Consulting Engineer for Railways.*
Madras

Sir,

S No. 25

In continuation of my letter No. 9097/1146 of the 30th ultimo, I have the honor to forward herewith copy of a letter from the Company's Chief Engineer together with the Estimate therein referred to and shall be obliged if under the circumstances explained you will be so good as to communicate to me the Sanction of Government to the Revised Estimate.

I have the honor to be,
Sir,
Your most Obedt Servant,

Agent and Manager.

A. R.
This requires a G.O. Please make the necessary reference leaving the letter for me to draft. JCh 16.12.98.

D.
Draft a recommendation to Govt for sanction, urging that the cost etc. of the connecting girders, etc. should be borne out of the Rajahmundry pocket entirely, & that the interest etc. should not be charged against the Company during the time when the improvements are in the progress & before they are brought into use.

Encl 1½
CSe

Form No. 1.

PUBLIC WORKS DEPARTMENT,

RAILWAY BRANCH.

Papers to be read in Proceedings:—

Again G.O., dated 27th October 1898, No. 1324-25 Ry

Again G.O., dated 189 , No.

P.W.Ry Current No. 1403 of 1898, dated 28.11.98, from the Govt: of India

ERs " " 6648 " 1898, " 1.12.98, " the Agent Southern Ry

do- " " 5908 " 1898, " 16.12.98, " — do — do —

Print

228

ORDER. No 1559 Rly 19/12/98

Print

The Government of India will be addressed.

Mr. No 1560 Ry 19th Dec 1898

To

The Secy: to the Govt: of India

P. W. Deptt.

Sir.

With reference to your letter No 1813 R.C dt the 21st November 98 I am now directed to forward a further revised estimate of the final location of the Shoranur Cochin Rs- survey amounting to Rs- 32,350 or Rs- 5400 in excess of the estimate sanctioned in your above mentioned letter.

2. It is the opinion of this Government that the extra cost

now estimated will be recovered many times over in the improved alignment which will be secured by keeping the survey party working for a longer period, and for this reason I am directed to recommend that the sanction now asked for be accorded.

3. The cost of the survey will, so far as can be judged at present, be recovered from the Cochin State.

Jd
16/12/98.

Received on 19/12/98

Public Works (1899) Department.

A

Railway

CURRENT No. 168

Read

Print No. 1559-60 Rly dd 19.12.98
pl Rly Cir. 165 dated 2.2.99.

024

From The Govt. of India

Order No. 144 Rly 8/6/2/99.

Communicated to

the Agent and Manager Madras Railway.

Print

No. 143 Rc

Dated 26th January 1899

Received } 2.2.99.

Registered }

Enclosures

Spare copies

JWS
1/2/99 R

The Agent Madras Ry
Exam Gl & Acct
Chief Engr for Ry.

Despatched 13/3/99

SUBJECT.

Shoranur Cochin Ry Survey.

Sanctioning with remarks the third revised estimate of the cost of the final location of the

B255

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

PLEASE REPLY TO "SIML"

23P

JOINT SECRETARY TO GOVT. OF MADRAS RYS. RECEIVED 12 FEB. 1899 3

All communications should be addressed to the Secretary.

No. 143 R.C.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

RAILWAY CONSTRUCTION.

Print

To

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

Simla, the 26th January 1899.

Sir,

I am directed to acknowledge the receipt of your letter No.1560 Railway, dated 19th December 1898, and in reply to convey the sanction of the Government of India to the third revised estimate, submitted therewith, amounting to Rs.32,350, of the cost of the final location of the Shoranur Cochin Railway Survey.

2. It is observed that the cost of the survey will, it is anticipated, be eventually recovered from the Cochin State.

3. The sanction accorded in paragraph 1 which is chargeable to the head "41-Miscellaneous Railway Expenditure", is in supersession of the sanction accorded in Public Works Department letter No.1813 R.C., dated 21st November 1898, and has been registered as No.14 Railway Surveys of 1898-99.

I have the honour to be,

Sir,

Your most obedient servant,

C. Pub.

Offg: Under Secretary.

Documents accompanying:-

Nil.

a Rec.