C.F. 73.

Date taken out.	For what purpose.			Initials of clerk taking the paper or of attender.	Date returned.	Initials of attender.
	Department.	C. No.	Year.			

SERIAL
23
24

Public Works (1898) Department.

CONCERNS BOTH BRITISH INDIA
AND INDIAN STATES.

RAILWAY BRANCH.

G.O., No. 371-72 Ry

DATED 5th March 1898.

[Despatch Abstract.]

Final location of the Shoranur-Cochin Railway

Ordered that the revised estimate of the cost of the remaining portion — amounting to Rs 32749 together with a note by the Con: Engineer for Rys, be forwarded to the Govt. of India for sanction

Forwarded

Indexed. 14/4/98.

BACK PAPERS.

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

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	[illegible]38 538	Ry	6.4.98				

Print

4P

Shoranur - Cochin. Railway Survey.
General Abstract - Estimate.

Main & Sub. Heads	Abstract Sub. Head	Abstract Main Head
	Rs	Rs
Preliminary Expenses		
I Survey Expenses		9,439
(a) Field Expenses	7,893	
(b) Office - do -	1,546	
II Plant		7,063
(a) Tents	2,754	
(b) Furniture	518	
(c) Instruments	3,620	
(d) Tools	170	
III Establishment		16,248
Total		32,749
Anticipated credits		
II. Plant (a) Camp Equipage — Rs 2,000		
" (b) Furniture — 400		
" (c) Instruments — 3,400		5,800
Total Rs		26,949

Madras 8th Feby 98.

Charles A. Dallas

Executive Engineer

Shoranur Cochin Survey

Print

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Shoranur. Cochin Railway Survey.

Survey Expenses.

(a) Field Expenses
(b) Office Expenses.

Description of work.		Quantity	Unit	Rate			Amount		
Lockspitting	Miles	73	Mile	30	.	.	2,190	.	.
Pegs large	No.	900	100	8	.	.	72	.	.
Do Small	"	8000	100	4	.	.	320	.	.
Mallets	"	15	Each	1	.	.	15	.	.
Compensation for crops	Miles	73	Mile	50	.	.	3,650	.	.
Cart Hire. 5 carts	Days	120	diem	5	.	.	600	.	.
Coolies jungle cutting	"	120	"	5	.	.	600	.	.
Rope strings &c				25	.	.	25	.	.
Cloth for flags				15	.	.	15	.	.
Paint				15	.	.	15	.	.
Nails screws				15	.	.	15	.	.
							7,517	.	.
Contingencies 5%							376	.	.
Total (a) Field Expenses							7,893	.	.
Stationery	Months	6	Month	75	.	.	450	.	.
Forms Books &c	"	6	"	50	.	.	300	.	.
Paper Double Elephant	Quires	4	Each	17	.	.	68	.	.
Do Mounted	Rolls	4	"	40	.	.	160	.	.
Tracing cloth	"	14	"	26	.	.	364	.	.
Section paper	Quires	4	"	20	.	.	80	.	.
Drawing Pins. Colors. Pencils rubber &c				50	.	.	50	.	.
							1472	.	.
Contingencies 5%							74	.	.
Total (b) Office Expenses							1546	.	.

Charles R. Dallas
Ex-Engr.
8/2/88

Prior

6

Shoranur-Cochin Railway Survey

II Plant.

(a) Camp Equipage.

(b) Furniture.

Description	Quantity	Unit	Rate	Amount	Carriage	Total
Tent Large No.	1	Each	445 . .	445 . .	62 . .	507 . .
do Office	2	.	315 . .	630 . .	84 . .	714 . .
do Small	4	.	150 . .	600 . .	84 . .	684 . .
do Lascars	5	.	50 . .	250 . .	35 . .	285 . .
do Necessary	5	.	33 . .	165 . .	23 . .	188 . .
do Baggage	5	.	45 . .	225 . .	20 . .	245 . .
						2623 . .
Contingencies 5%						131 . .
Total (a) Camp Equipage						2754 . .

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 chests	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 . .
Padlocks	12	.	2 . .	24 . .
				493 . .
Contingencies 5%				25 . .
Total (b) Furniture				518 . .

Charles R. Dallas

Ex. Engr. 8/2/38

Print

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Shoranur-Cochin Railway Survey.
II. Plant (C) Instruments.

Description		Quantity	Unit	Rate			Amount		
Theodolites 5"	No.	2	Each	600	.	.	1,200	.	.
Levels 14"	"	4	"	300	.	.	1,200	.	.
Level staves	"	8	"	38	.	.	304	.	.
Ranging Rods	"	40	"	3	.	.	120	.	.
Drawing boards 41 x 28	"	2	"	18	.	.	36	.	.
Parallel rulers 18" x 24"	"	2	"	20 28	. .	. .	48	.	.
Chain with arrows 100 ft.	"	4	"	17	.	.	68	.	.
Umbrellas	"	5	"	10	.	.	50	.	.
Compass Prismatic 3½"	"	1	"	90	.	.	90	.	.
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 crow staff heads	"	2	"	7	8	.	15	.	.
Scales	Cases	2	"	8	8	.	17	.	.
Curves	Set	1	"	20	.	.	20	.	.
Set squares 10"	"	2	"	2	8	.	5	.	.
							3448	.	.
Contingencies 5%							172	.	.
Total (C) Instruments							3620	.	.

Charles R. Dallas

Ex. Engr.
9/7/58

5

Print

Shoranur - Cochin Railway Survey. 8

II. Plant (d) Tools.

Description		Quantity	Unit	Rate			Amount		
Mamoolies	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	.	.

Charles R. Dalles

Ex. Engr.
8/2/98

Print

Shoranur. Cochin Railway Survey.

9

III. Establishment.

Designation	Monthly Salary of Office	Travelling allowance per Month	Total per Month	Total for 6 Months
				Rs
1. Executive Engineer	850	150	1,000	6,000.
1. Assistant do	350	120	470	2,820
2. Surveyors	150	30	360	2,160
2. Do	100	25	250	1,500
4. Clerks	100 & under	-	200	1,200
3. Draftsman	100 & under	-	150	900
4. Peons	8	-	32	192
30 Lascars 4 months	9	-	270	1,080
				15,852
Contingencies 2½ %				396
Total Establishment. Rs.				16,248

Charles R. Dallas

Ex. Engr
8/7/58

ENCL No. 3 to C.E.'s C. No. 750 of 1898
116 d/ 10-2-98
FROM Hu

Madras Railway Co.

No. 3 Print Executive Engineer's Office, Shoranur Cochin Survey
MADRAS. 8th February 1898.

585

The Chief Engineer.
Madras Railway
Madras.

My dear Sir,

Shoranur- Cochin Survey.

Having reference to Consulting Engineer's verbal instructions to alter and realign the trace of the proposed railway from Shoranur to Cochin, I beg to forward for sanction revised estimate for the Survey Expenses amounting to Rs 52,749 but with the credits that may be anticipated under the head of No. II " Plant " will probably not exceed an actual expenditure of Rs 27,000/

2. The largest increase over the Estimate received with your No. C/8383/1539 of 5th Instant is under Main Head No II Establishment, as it will now be necessary to retain the temporary staff somewhat longer than was originally intended, for the preparation of the plans and Estimates.

3. Another item in which there is also a large increase is Sub Head (c) Instruments, the prices for which have been taken from Messrs Orr and Sons Catalogue but as these will be transferable for use in the construction of the line the charge against the survey Estimate will not be more than about Rs 300/.

Yours &c,
(Sd) C.R. Dallas.
Executive Engineer.

ENG. No. 1 TO E. R'Y. C. No. ~~1102~~ 750 OF 1898
LETTER NO. 116 D/ 10-2.98
FROM Am

MADRAS RAILWAY.

From The Agent and Manager.

To The Consulting Engineer for Railways.

No.

Dated

Recd.

No. C/ 8383
175

Print

Madras Railway Company,
Chief Engineer's Office,
Madras. 9th February 1898.

288

The Agent and Manager.

Dear Sir,

Shoranur- Cochin Survey.

Your No. 9097/1124 of 2nd current.

I beg to advise you that on the 6th February 1898 the plans and sections of the alignment of the proposed Shoranur-Cochin Extension prepared by this Company was very fully considered at a Meeting at which the Consulting Engineer (Mr. F. J. E. Spring) the Executive Engineer (Mr. C. R. Dallas) and myself were present, with a view to deciding the final alignment and making any modification in the plan and section for which work the allotment of Rs 20,206 had been sanctioned.

2. I beg to submit a revised estimate for Rs 32749 prepared by Mr. Dallas together with an explanatory letter from that officer (No.3 of 8th Instant) and shall feel obliged if you will obtain the early sanction of Government to this expenditure to enable me to secure the services of the additional staff without delay.

Yours faithfully,
(Sd) Henry C. West.
Chief Engineer.

ENC. No. 2 TO E. R's C. No. ~~1102~~ 750. OF 1898
LETTER No. 116 of 10-2-98
FROM Agt

(A. & M. I.) No. 116.

Print

MADRAS RAILWAY.

SERIAL No. 20

AGENT AND MANAGER'S OFFICE,
Madras, 10th February, 1898.

C. No. 750
Recd. 11-2-98

18

From

The *Agent and Manager.*
Madras Railway.

To

The *Consulting Engineer for Railways.*
Madras.

Sir,

With reference to your letter No. 562 dated the 5th Instant, I have the honor to enclose copy of a communication from the Chief Engineer No. C 8383/175 of the 9th Instant in which it is explained that in consequence of the realignment of the proposed Shoranur- Cochin line the estimate for the final location of the line has had to be revised and that the amount of the revised estimate is Rs. 32749/. The estimate together with a copy of Mr. Dallas letter is enclosed and I beg to request that you will communicate the sanction of Government to this expenditure.

I have today written to the Board for their approval of the proposed outlay.

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

Agent and Manager.

(A. & M. I.) No.

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE,
Madras, 18

From

Agent and Manager.

To

Consulting Engineer for Railways.

Sir,

SERIAL No. 21

Print

Telephone

From
A. M.

18P

To
E. K.

Will you sanction my engaging an Assistant Engineer for the Shoranore Cochin Railway on Rs. 250 + Rs 120 allowance as provided in Mr Dallas' Revised Estimate, we want to get on work.

1/3/98

Recd
3-15 P.m.

11P

Telephone reply.

You can engage Assistant for Shoranore Cochin Survey.

FKS
3/3/98

Despd-4-45 (P.m.)
on 3-3-98

500—26-6-97.
CONSG. ENGR.'S No. 21.

[illegible]

112
3 - MAR 1898
RAILWAY ACCOUNTS, MADRAS.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,
Madras, 189 .

No.

OFFICE NOTE.

~~Letter~~ Telephone message from the Agent, + Manager Madras Ry Railway, No. — , dated 1st March 1898, forwarded to the Examiner of Railway Accounts. for favour of remarks –

F J Fowler

for E. R

But now I haven't got a copy of the estimate. What CE wants to know is what staff is estimated for

FJF

D1 The estimate sanctioned by Govt (Flag C) is in Press. The Dft revised Estimate (Flag R) is already in Govt but amount for Asst Engr is Rs [illegible] instead of Rs 250 – I have telephoned to Press to send papers by special messenger.

Send Note when recd

FJF

EW
2/3/98

EXAMINER'S REPLY.

The Estimate of Rs 20206 for the final location of the Shoranur Cochin Ry sanctioned under Govt of India No 2033 R.C d/ 22nd Decr /97 makes provision for only one Engineer on Rs 850 per mensem. The appointment in addition of an Assistant Engineer on Rs 250 pay + Rs 120 Allowances will apparently cause an excess both over the sanctioned estimate and the budget allotment for the year & will thus require sanction of the Govt of India

E W Wallace
3/3/98 C.R

SERIAL No. 22

Précis

Shoranur Cochin Survey Estimate

In their letter No. 2033. R.C. dated the 22d. Dec. 97, the Govt. of India sanctioned the estimate amounting to Rs 20,206. of the cost of finally locating the Shoranur Cochin branch of the Madras Ry. which reached us with the Agent's letter No. 9097/1102. dated 27th Nov. 97.

Since that date I have had an opportunity of seeing the results of the recent improvements in the alignment of the Calicut Cannanore railway, improvements which I judge will result in a saving of some lakhs. and, also I hope, in shortening the line ~~also I hope~~. I have moreover ~~[illegible]~~ become familiar with the general features of the West Coast country. In the light of this experience ~~I have gone carefully into the survey plans of the Shoranur Cochin railway~~, and in concert with the Chief Engr of the Madras Ry. and with an engineer who was formerly on the Cochin Survey and who is now in charge of its realignment, I have gone very carefully through the whole of the plans and sections of the Shoranur Cochin line.

It is perfectly clear that the same mistake was made in this case as was made in the case of the Calicut Cannanore survey, namely, the engineer who made the survey thought it incumbent on him to run very long straight lines right through the most formidable obstructions which a little dodging would have enabled him to avoid. In fact the survey partakes rather of the nature of a flying survey or a trial survey, and it is in nothing like a fit state to be picked up again and staked out.

The Chief Engineer of the Madras Ry. and I have made over the plans and sections to the engineer now in charge of the re-survey of the line with very full instructions which I quite expect will result in a saving of several lakhs and in the abolition of many unnecessary gradients.

But the effect will be that instead of picking up the old line as was contemplated when the Rs. 20,206 estimate

was made, the engineer must practically realize fully the position of it and put in perhaps double as many curves as formerly. This will naturally cost considerably more than was at first contemplated, and the Agent has therefore had to prepare a new estimate amounting to Rs 32,749 less expected credits Rs 5800, net amount of the estimate Rs 26,949.

The estimate, which I have carefully gone into, and which amounts to only Rs 370 per mile, is not only not unreasonable, but it is the least that in my opinion the work can be done well for. ~~Hardly~~ ~~the delay [illegible]~~ The chief cause of the lack of sufficient detail of alignment, and of the consequent enhancement of the early estimate for the Calicut Cannanore line was due, as I have ascertained, to the engineer in charge of the survey thinking that his time was very limited, and that he could not go back on his work. This mistake must now be avoided. An extra Assistant is wanted and of course extra instruments surveyors &c and these are now provided for.

F.R.S. 3/3/98

R Form No. 12.

Précis

SERIAL No. 24

No. 372 Ry

18

Government of Madras.

PUBLIC WORKS DEPARTMENT,

RAILWAY BRANCH.

To

The Secy. to the Govt. of India,
P. W. Department.
Calcutta.

Madras, the 5th March 1898.

A.R. The Agent's No. 116 of the 10th Feb and its two enclosed letters ought to have gone yesterday to Govt of India (if they had arrived) as enclosures. Send them now with a brief note from you to the Head Clerk or Office Manager whatever they call him ("Assist Secretary" I think) to say that they ought to have gone as accompaniments to this letter, or if letter has not already gone just then cut it. FM

Estimate ~~of~~ not of letter FM

Sir,

SN° 8

With reference to your letter No. 2033 R.C. dated the 22d Dec. 97. communicating sanction to an estimate amounting to Rs 20,206. for resurveying the Shoranur Cochin railway alignment. I am now desired to apply for sanction to an enhanced estimate of the cost of the survey amounting to Rs 32,749 (or after reduction of anticipated credits, Rs 26,949).

2.– A copy of the ~~abstract of the~~ Estimate ~~a copy of the~~ is enclosed, together with a Note thereon by the Con. Engr for Ry. Madras, which fully explains the causes of the enhancement.

3.– As the revised alignment, whereby large savings in the construction estimate are anticipated, could not proceed with any degree of efficiency in the absence of a suitable staff, this Govt

~~[illegible]~~ in anticipation of your Sanction ~~[illegible]~~ has authorised
~~I am now desired to apply for~~ ~~authorise~~
the Agent Madras Ry. Co. to engage the services
of an Assistant Engineer (contemplated in the
new but not in the old estimate) at Rs 250
per mensem plus Rs 120 fixed travelling
allowance.

I have &
FKS
3/3/98

Documents accomd: No 116 of 10.2.98
(1) Letter from the Agent, M. Ry with 3 enclos.
(including the revised Estimate)
(2) Note by the Cons. Engr. for Rys.

5/3 54

Form No. 1.

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH. No 23

Print

B/-

Papers to be read in Proceedings:—

16 P

Again G.O., dated 189 , No.
Again G.O., dated 189 , No.
~~ER's Current No. 661 of 1898, dated 6.2.98, from from the Agent & Manager M. Ry~~
~~Letter to Agent & Manager Madras Ry — No 362 of 5th July 1892.~~
ER's " " 750 " 1898, " 11.2.98 , " from Agent & Man M. Ry
Telephone message from Agent & Manager Madras Ry" — of 1st March 1898
Note by the Cons Engr for Rys No — of 3rd March 1898

ORDER. No. 371 Ry, dated 5/3/98

The Government of India will be addressed.

H.E. No. 372 Ry dated 5/3/98.

To
The Agent & Man: M. Ry
" Cons Engr for Rys
" Ex G: Ry. Accts

7/3/98