

(1) Number of pages 6.5(2) Date of repair 22.12.1970

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Relations DEPARTMENT.

G.O. No.	1060-1061	Press
		Mis.
279-23.		
Dated		1870.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
22nd April 1870.*

No. 279 Read the following letter from Major J H. M. SHAW STEWART,
R E, Consulting Engineer for Railways, to the Secretary to Government,
Public Works Department, dated Madras, 5th April 1870, No 144 —

REFERRING to the Order of Government dated the 17th ultimo, No 800, I have the honour to forward the accompanying estimate showing the probable cost of the preliminary expenses on account of the Southern Extension of the Great Southern of India Railway. The estimate provides for surveying, preparing working plans and estimates, marking out line and land for same, etc

	RS	A	P	
Cost of the Tuticorin trial survey	15,923	12	2	2 The amount of the estimate is Rupees 2,40,431. In this is included an item of Rupees 33,035, which, as shown in the margin, represents the cost of the Tuticorin and Madura trial surveys* carried on under Messrs Carr and Dibblee in the years 1862 and 1868, also the cost of the survey party employed† in November and December 1869
Cost of the Madura trial survey	14,462	3	4	
Cost of the survey party employed in November and December 1869	2,648	9	6	
Total ..	33,034	9	0	
* Vide G O, No 580, dated 20th Oct 1862				
" " 2,951, " 17th Sept 1868				
† " " 3,408, " 22nd Oct 1869				
" " 3,559, " 6th Nov "				

3 Another item of Rupees 41,114 represents the cost of the sanctioned establishment during December 1869 and January, February, and March 1870 The Agent has been requested to furnish further details regarding this expenditure.

4. The remainder of the estimate, amounting to Rupees 1,66,282, represents the estimated cost of completing the survey operations after the 1st instant It is expected that the operations will continue for six months from that date, and provision has been accordingly made. I cannot say that I am satisfied with the estimate. It does not enter sufficiently into detail, and in several items the sum set down seems excessive I have already been obliged to return the estimate once for revision, and, were it not that it has been emergently called for by Government, I should detain it pending receipt of further explanation from the Railway authorities.

5 The whole establishment entered in the estimate seems to have been calculated upon an unnecessarily expensive scale I do not think that the Chief Engineer requires a Manager on a salary of Rupees 350 per mensem so long as the only work in progress is that of surveying. And, considering that fifteen Engineers have been, or are to be, engaged for the work, I think it more than doubtful whether so many Sub-Assistant Engineers and Engineering Assistants will be necessary I think the number of lascars, sixteen to each district of fifteen miles, is excessive, and I do not think it essential that an unbroken line of private tappal runners should be maintained during the progress of the survey. The sum set down for tents, Rupees 19,020, seems extravagantly high, as is also that for field and drawing instruments, Rupees 15,600.

6 I have drawn the attention of the Agent to these points, and have requested that the sums entered in the estimate may be carefully revised.

*Proceedings of the Madras Government, Public Works Department,
22nd April 1870.*

No 280. ORDER THEREON, 22nd April 1870, No. I,060.

RAILWAY, No. 35.

ORDERED that this letter be forwarded
to the Government of India.—

(Here enter No. 1,061, dated 22nd April 1870.)

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Consulting Engineer for Railways.

Exd. A. S. Rodgers.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 22nd April 1870.

No. 281.

No 1,061.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

RAILWAY, No. 36.

2nd March 1870, No 377-R.
Do „ 378-R

to an estimate of Rupees 2,40,431 for the survey of the proposed extension of the
Great Southern of India Railway to Tuticorin, including the cost of establishments
and contingent expenses

2 This estimate provides for the reimbursement of the sum of Rupees
33,034-9-0, which was expended on trial
See G O, No. 1,882, dated 24th June 1867
From „ 3,079, „ 4th Oct
From Government of India, 2nd March 1870,
No 378-R, paragraph 5
surveys in the years 1862, 1868, and 1869,
and debited, as a temporary arrangement,
to the Capital account of the main line
until the extension received the sanction of the Secretary of State. It also includes
the amount for which sanction has been
* From Government of India, 2nd March 1870,
No 378-R
To do 4th April 1870, No 948.
already* accorded or applied for on
account of the survey now in progress,
which it is expected will still require for its completion a period of six months, and
a further outlay of Rupees 1,66,282 under the following heads —

	RS
Chief Engineer ..	1,800
Establishment for do. and office-rent	1,052
Fifteen Assistant Engineers	8,997
Subordinate Engineer and Office, etc., establish- ments	6,280
	<hr/>
	18,129 x 6 = 1,08,774
Labor and Materials	9,705
Stores	8,600
Contingencies ..	9,203

3. The Consulting Engineer considers the estimate to have been prepared on
a somewhat extravagant scale, and he is of opinion that both in the item of Estab-
lishment and of Stores it is susceptible of considerable reduction. Major Shaw
Stewart has drawn the attention of the Agent to the subject with a view to the

careful revision of the estimate; but, as it is of importance that the operations in progress should suffer no interruption, and the Government of India require that they should be proceeded with on a distinct money sanction, I am to request that the estimate herewith forwarded may be passed on the understanding that if it can be reduced the outlay will be proportionately restricted.

I have the honour to be,

Sir,

Your most obedient servant,

Colonel, R E,

Secretary to Government.

Ed. A. S. Rodgers,

Railway Department

Com: Cuz's Office

N^o 144

From,

Major J. M. Shaw Stewart R.E.
Com: Cuz's Office for Railway

To

Colonel L. A. Orr R.E.
Secretary to Government
Public Works Department
Fort Saint George

Ref,

Referring to the order of Government, dated the 17th ultimo N^o 800, I have the honour to forward the accompanying estimate showing the probable cost of the preliminary expenses on account of the further extension of the Great Southern of

of India Railway. The estimate provides for surveying, preparing working plans and estimates, marking out line and land for same, &c.

2 The amount of the estimate is Rs. 2,40,481. In this is included an item of Rs. 33,035, which, as shown in the margin, represents the cost of the Interior local survey.

carried on under Messrs Carr and Dillalee in the years 1862 and 1868; also the cost of the survey party employed in November and December 1869.

3 Another item of Rs. 4,114

* Cost of the Interior local survey — 15,923 - 12 - 2
 Cost of the Madras local survey — 14,462 - 3 - 4
 Cost of the survey party employed in November and December 1869 — 2,648 - 9 - 4
 Total Rs. 33,034 - 9 - 0

* Rs. 580, 7 2 2 Dec last 1862
 Rs. 2951, 7 17 0 September 1869

* Rs. 3408, 7 2 2 Dec last 1869
 Rs. 3557, 7 6 0 November 1869

4,114 represents the cost of the sanctioned establishment during December 1869, and January, February, and March 1870. The Agent has been requested to furnish further details regarding the expenditure.

4 The remainder of the estimate, amounting to Rs. 166,287, represents the estimated cost of completing the survey operations after the 1st instant. It is expected that the operations will continue for six months from that date and provision has been accordingly made. I cannot say that I am satisfied with the estimate. It does

does not enter sufficiently into
detail, and in several items the
sum set down seems excessive.
I have already been obliged to
return the estimate once for re-
vision; and were it not that it
has been urgently called for
by Government, I should
retain it pending receipt
of further explanation from
the Railway Authorities.

5 The whole esti-
- mation entered in the
estimate seems to have been
calculated upon an unnecessarily
expensive scale. I do
not think that
the

the Chief Engineer requires a
Manager in a salary of Rs. 250
per mensem; so long as the only
work in progress is that of
surveying. And considering that
15 Engineers have been, or are to
be, engaged for the work, I
think it more than doubtful
whether so many Sub-Assistant
Engineers, and Engineering Assistants,
will be necessary. I think the
number of Lassars, 16 to each
district of 15 miles, is excessive;
and I do not think it essential
that an unbroken line of
private Tappal Runners should

be maintained during the progress of the
survey. The sum set down for
tents, Rs. 19,020, seems extravagantly
high: as is also that for field
and drawing instruments, Rs. 15,600
b.

I have drawn the
attention of the Agent to these
points, and have requested that
the sums entered in the estimate
may be carefully revised.

Madras } I have the honor to be
5th April } Yours truly,
1870 } ~~W. H. D. D. D.~~ Major R. G.
Comd: Camp for Carliang

11 B

Great Southern of India Railway Southern Extension

Estimated cost of Preliminary Expenses in Surveying,
preparing Working Plans & Estimates and marking out line
and land for same &c.

Fifteen Districts of fifteen Miles long each

1879
Prof. J. G. F. B.
Consulting Engineer
for Railways

The Secretary to Govt.
P Works Department
Fort St. George.
Nos 1060 & 1061-224/79.

Dated 5th
Recd. 6th April. 1870
E.W. I. S.
No 1144

Forwarding estimate
showing the probable
cost of the preliminary
expenses on account of the
Southern extension of the
Great Southern of India
Railway

No 279

1	Chief Engineer		1800
	<u>Establishment.</u>		
1	Manager and Accountant	350	
1	Native Assistant	100	
	Clerks	100	
	draughtsmen	300	
	Printed & Stationery	72	
	Office Rent	130	1052
4	First class Assistant Engineers		3273
	Second do do		2540
2	Third do do		3179
	<u>Establishment.</u>		
4	Sub Assistant Engineers	1500	
1	Engineering Assistants	1650	
15	Photographers	750	
10	Clerks & Inspectors	600	
240	Lascars	1920	
45	Supply Runners	360	6280

For one Month's Pay — 18129

For six Months — Pay — 108774

Labour, trial pits, locks putting &c &c	5055
Materials, bamboo, pegs &c &c	4657
Stores as follows	38,600
Medicines	
Stationery	750
Tools 16 Sets	2200
Field & drawing Instruments	19020
Camps & office Furniture	15,600
Contingencies @ 10 %	980
	9213

As sanctioned establishment to 31 March 1870	166282
Cost of preliminary Survey by Messrs. Carr & Dibble	44114
	33034

Total Rs. 1,02,321

Rupess Two hundred & forty thousand, four hundred & thirty, Annas fifteen & Pie one only.

Signed / W. Griffith.
for Chief Engineer

True copy.

Signed / William Bates

Great Southern of India Railway Southern Extension

Estimated Cost of Preliminary Expenses in Surveying, preparing Working Plans & Estimates and marking out line and land for same &c.

Fifteen Districts of fifteen miles long each

1 Chief Engineer	1800
Establishment	
1 Manager and Accountant	350
1 Natural Assistant	100
Clerks	100
Boys & Messengers	300
9 Peons and Lascars	72
Office Rent	130
4 First class Assistant Engineers	1052
4 Second do do	3273
4 Third do do	2545
7	3177

Establishment	
4 Sub Assistant Engineers	1000
11 Engineering Assistants	1680
15 Draftsmen	750
15 Clerks & Inspectors	600
240 Lascars	1920
45 Sapper Runners	360
	6280

For one Month Rupess 15,124

For six Months Rupess 10777

Labour, trial pits, locks putting &c &c	5055
Materials, bamboo, pegs &c &c	4650
Carried over	11807

6/5

By
Pro: May/70
No 132
id. 1

Brought Over	118,479
Stores as follows	38,600
Medicines	750
Stationary	2250
Tests 16 Bets	19,020
Field & drawing Instruments	15,600
Camp & office furniture	980
Contingencies @ 10%	9203
	166,282
Add sanctioned establishment to 31 March 1870	41,114 6 1
" Cost of preliminary survey by allphs	
Carr & Biddle	32,034 9
Total Rupees	2,40,430 15 1

Rupees two hundred & forty thousand, four hundred & thirty, Anna fifteen & Pie one only

Signed W. Grippick
for Chief Engineer

True copy
William B. B. B.

Comp'd Adl

M. 13.56/70.
— 2085/70

4548
2

Proceedings of the Madras Government
under date the 22nd April 70

Read the following
From the Inspr for
Railway. (N.E. No 1448/5 April 70)

Ordered that this letter
be forwarded to the Govt.
of India - 1061

To the C. Eng^r for the
Dec. 23/4/70 to the Secy to the
Govt. of India.
Sir,

With reference to the
orders of the Govt. of India
marginally noted, I am
directed to forward the ac-
companying letter from the
Chief Engineer for Railways,
giving cover to an estimate
of Rs 2,40,431 for the survey of
the

22 March 70, Rs 377 R.
20 — — — 378 R.

1 Mr. C

W. D.
101

the proposed extension of the Great Southern of India Railway to Tuticorin, including the cost of establishments and contingent expenses.

This estimate provides for the reimbursement of the sum of Rs. 33,034-9 which was expended on trial surveys in the years 1862, 1868 and 1869, and debited, as a temporary arrangement, to the Capital Account of the Main line until the extension received the sanction of the Secretary of State. It also includes the amount for which sanction has been already accorded or applied.

for

Secy to Govt of India 24th June 1867.
" 3079 of 4th Oct. ---
From Govt of India 2nd March 70
No 378 R. P. 5

+ From Govt of India. 2nd March 70.
No 378 R.
To Secy 4th April 70. No 948.

for on account of the survey now in progress, which it is expected will ^{still} require for its completion a period of six months, and a further outlay of Rs. 1,56,282 under the following heads:-

Chief Engineer	Rs 1800
Establishment for H ^o & Office Cont.	1052
15 Assistant Engineers	8,997
Subordinate Engineer & Office	6,280
H ^o Establishment	
	18,129 x 6 = 1,08,774
Tools and materials	9,705
Stores	38,600
Contingencies	9,203

The Chief Engineer considers the estimate to have been prepared on

a somewhat extravagant scale,
and he is of opinion that, both
in the item of establishment
and of stores it is susceptible
of considerable reduction.
Major Shair Stewart has
drawn the attention of the
Agent to the subject with
a view to the careful revision
(of the estimate, but as it is
of importance that the
operations in progress should
suffer no interruption, and
the Govt. of India require
that they should be proceed-
ed with on a distinct money
sanction, I am to request
that the estimate herewith

for-

Forwarded may be passed
on the understanding that
if it can be reduced the
outlay will be proportion-
ately restricted.

Wd

Recd 22/4/70 with
Copy of G.O. 1060 of 1870 & the
estimate (in original) &
received

Handwritten text in the top left corner, possibly a date or reference number.

Handwritten text in the top right corner, possibly a signature or name.

Handwritten text in the bottom left corner, possibly a signature or name.

Handwritten text in the middle right area, possibly a date or reference number.

Cue 1356
Gibt. of 1870: Madrid.

PUBLIC WORKS.

The Consulting Engineer
for Railways
To The Secretary to the
Govt of India

200

Final

G O 2 April 1970, No 2/0502/061

№ 274-2809281

Extensum [R] Papering orders on the letter
in the Enclosure. Giving cash to an attor-
ney of Pl 240, 431 for the survey of the
1st paid extensum of the 1st Regt. 1st En-
trenchment, including the cost of labor and
materials and contingent expenses.

Antennae / Box Letter from the Com.
Eng. from our former estimate of
Rs 240, 431 for the survey of the pro-
posed Antennae of the E. S. S. to Sub-
-arm, including the cost of establish-
ments and contingencies, forwarded
in the form of letter with Remarks.