

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	947-48 (Ry)	Press
B.P. No.		Mis.
Dated	10-4-	1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
10th April 1876.*

Read the following papers:—

No. 183. Letter from Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 17th March 1876, No. 141.

With reference to the Proceedings of Government, No. 399, dated 15th February 1876, I have the honor to submit letter, No. 252, of the 14th instant, with enclosure from the Agent of the Madras Railway, explaining the circumstances under which the original estimate for the repairs of the two locomotive engines purchased from the Calcutta and South-eastern (State) Railway was exceeded.

2. The circumstances under which additional engines were indented for, and the purchase of these two effected, is recorded in the following orders of Government:—

9th February 1872,	No. 390.
8th April	" " 928.
30th August	" " 2,078.
11th October	" " 2,388.
19th May 1873,	" " 1,391.
26th August	" " 2,134.
15th October	" " 2,511.
24th November	" " 2,835.
5th September 1874,	" " 2,521.
16th November	" " 3,236.

3. Mr. Elwin's remark in paragraph 2 is apparently written under a mistake. The Government of India did not intend that the unserviceable stock of other Companies should be purchased. In

Letter No. 387 G.R., 11th March 1872.
G.O., No. 928, 8th April 1872.

making the suggestion His Excellency the Governor-General wrote,—

"So long, however, as on other railways in India there are large numbers of good new engines that are not required and that can be purchased at the exact time when they may be wanted, the Governor-General in Council cannot allow the burden of guaranteed interest to be needlessly increased by the purchase for the Madras Railway of similar engines in England, whether the contingency to be provided against is certain or doubtful."

G.O., No. 2,078, 30th August 1872.

4. The Board of Directors in their letter, No. 494, dated 21st June 1872, approved of this arrangement.

5. The two engines in question were personally inspected by Mr. Barton Wright, and it was upon his recommendation that the sanction of Government was accorded for their purchase.

6. It will be observed that, in addition to the excessive cost for repairs, Mr. Trevithick now writes that the engines are too small for the requirements of the traffic on the Madras Railway.

From R. B. ELWIN, Esq., Agent and Manager of the Madras Railway Company, to Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, dated Madras, 14th March 1876, No. 252.

ADVERTING to your letter of the 28th ultimo, No. 216, I have the honor to enclose you a copy of the Locomotive Superintendent's letter, No. 120, of the 13th instant, in which he explains

*Proceedings of the Madras Government, Public Works Department,
10th April 1876.*

the circumstances under which the first estimate for the repair of the two locomotive engines purchased from the Calcutta and South-eastern (State) Railway was exceeded.

2. It is much to be regretted that the Company was not allowed to obtain the engines they required from England, instead of being obliged to purchase them two from the stock of another Company in India.

From F. H. TREVITHICK, Esq., Locomotive Superintendent, to R. B. ELWIN, Esq., Agent and Manager of the Madras Railway Company, dated Perambore Works, 13th March 1876, No. 120.

Your endorsement on a letter from the Consulting Engineer, No. 216, of the 28th ultimo. The engines purchased from the Calcutta and South-eastern Railway were examined by Mr. Barton Wright, and the original estimate for their repair was necessarily framed upon an external examination only at these works.

2. After the engines had been stripped and the tubes had been removed, before which the interior of the boilers could not be seen, it was unexpectedly discovered that both boilers were so rusted and pitted internally that nothing short of their complete renewal (except copper fire-boxes which were sound) could render the engines safe and fit for service again.

3. The following is an approximate statement of the expense incurred over and above the original estimate in renewing these boilers, and I may add that the boilers were attached to the frames in such a way as necessitated the complete dismemberment of the whole engine before the boilers could be got out, and that this item very considerably increased the cost of the job over what would have been the case with engines built in a more modern style.

Statement of the extra cost of renewing the boilers of two engines bought from the Calcutta and South-eastern Railway above the original estimate.

Labor.									
Boiler-makers	...	...	...	...	...	...	...	Rs.	Rs.
Fitters	...	...	...	...	...	...	...	...	4,000
	...	...	...	...	...	...	...	...	4,380
									8,380
Material.									
Boiler-plate...	...	...	...	...	...	...	...	...	2,700
Iron rivets	...	...	...	...	...	...	...	...	150
Copper do.	...	...	...	...	...	...	...	...	150
Sheet iron	...	...	...	...	...	...	...	...	1,100
Iron bar for making bolts, stays, and other articles	...	...	...	...	...	...	...	...	936
Copper stays	...	...	...	...	...	...	...	...	689
									5,725
Total	...	...	...	...	...	...	...	...	14,105

4. This may perhaps be a fitting opportunity to call your attention to the fact that these engines are too small for the requirements of the traffic, and that indeed, with the exception of two engines used for shunting purposes, they are the smallest in the Company's possession. They have, however, now cost nearly the same money as would have procured new engines from England of a more powerful type.

*Proceedings of the Madras Government, Public Works Department,
10th April 1876.*

No. 184. MINUTE BY HIS GRACE THE GOVERNOR.
Locomotive Engines purchased from the Calcutta and South-eastern State Railway for the Madras Railway.

G.O., No. 1,392, dated 10th May 1873.
G.O., No. 2,521, " 5th Nov. 1874.
G.O., No. 3,236-7, " 16th " "
G.O., No. 477-8, " 18th Feb. 1875.
G.O., No. 776, " 19th March "
G.O., No. 399, " 15th Feb. 1876.
G.O., No. 947, " 10th April "

THE Madras Railway Company have been led into a wasteful expenditure of a large sum. When the revised estimate of expenditure in repairs of the two purchased engines came before me, it seemed so large that it must have arisen from some oversight.

The facts now disclosed are according to the papers sent—

- 1st.—That engines were purchased without internal examination;
- 2nd.—That the boilers were useless;
- 3rd.—That the boilers were so attached to the frames that more than ordinary cost had to be incurred in removing them;

but reference to No. 1,391, May 1873, shows in paragraph 2 of Mr. Wright's letter that he knew that one at least required a "thorough overhaul and possibly renewal of fire-box and boiler;" so that he knew the defects, and the mode of attachment of the boiler to the frames must have been perfectly visible.

The same paragraph also shows that he knew that No. 3 had been so long idle as to raise doubts as to its condition.

An estimate was then made of an wholly insufficient sum for the repairs, but this estimate was not made until after the engines had come into the possession of the Madras Railway Company and any desired particulars could be known or necessary examination made.

Mr. Trevithick just arrived knows, of course, nothing of the circumstances.

I can, however, only come to one conclusion, viz., that this waste of money has been caused solely by insufficient care in examination and in the preparation of the estimate for repairs.

I draw attention to this not for the purpose of fixing blame on this person or on that, but that it may be impressed on all officers whose duty it may be to prepare and submit estimates for railway matters to this Government, the great importance of most carefully examining their estimates before submission. There is no duty of equal importance so frequently slighted. There is nothing which reflects greater discredit on an officer's professional ability or gives greater ground for suspicion as to the amount of his personal supervision and attention than the submission of erroneous estimates.

Errors in estimates, in the great majority of cases, arise from simple want of care or forethought, i.e., neglect of duty by the officer making them.

BUCKINGHAM AND CHANDOS.

25th March 1876.

*Proceedings of the Madras Government, Public Works Department,
10th April 1876.*

No. 185.

ORDER THEREON, 10th April 1876, No. 947.

RAILWAY, No. 21.

THE circumstances under which the additional outlay is considered necessary will be explained to the Government of India, and the sanction of that Government requested thereto; and the Minute by His Grace the Governor will be communicated for the information of the Railway authorities.

(Here enter No. 948, dated 10th April 1876.)

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

To the Consulting Engineer for Railways.

Exd. E. C. Shunker.
Spare Copies

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 10th April 1876.

No. 186.

No. 948.

FROM

MAJOR-GENERAL G. W. WALKER, R.E.,
*Secretary to the Government of Madras,
Public Works Department,*

TO

THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department, Railway.

RAILWAY, No. 22.

SIR,—I am directed to forward the accompanying correspondence with a revised estimate, amounting to Rupees

31,039, for putting into working order the two locomotive engines purchased by the Madras Railway from the Calcutta and South-eastern (State) Railway Company.

2. The engines were originally purchased for Rupees 16,798, and a sum of Rupees 19,000 was subsequently sanctioned for repairs.

3. A further sum of Rupees 12,039 is now stated to be necessary. The total cost of the engines will thus be Rupees 47,837. The previous correspondence on the subject is quoted below for ready reference:—

To Government of India, No. 1,392, of 19th May 1873.

To	do.	„	2,512, of 15th Oct. „
From	do.	„	1,852 G.R., of 30th Oct. 1873.
To	do.	„	3,237, of 16th November 1874.
To	do.	„	478, of 18th February 1875.
From	do.	„	611 R., of 5th March „

I have the honor to be,

Sir,

Your most obedient servant,

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

Exd. E. C. Shunker.
Spare Copies

Railway Department. Consulting Engineer's Office
Madras 17th March 1876.
N^o 14

From, Lieut. Col. J. H. B. Shaw Stewart, R.E.,
Consulting Engineer for Railways.

To, Major General G. W. Walker, R.E.,
Secretary to Government
Public Works Department of
Port-Saint George.

Sir,

With reference to
the Proceedings of Government N^o 399 dated 15th February 1876, I have the honour to submit letter N^o 252 of the 14th instant, with enclosure from the Agent of the Madras Railway, explaining the circumstances under which the original estimate for the repairs of the two Locomotive engines purchased from the Calcutta and South Eastern

Eastern / State / Railway was sac-
-ced.

2. The circumstances under
which additional engines were in-
-dented for, and the purchase of
these two effected, is recorded in the
following Orders of Government:—

9 th February 1872	N: 890
8 th April	928
30 th August	2078
11 th October	2388
19 th May 1873	1391 X
26 th August	2134
15 th October	2511
24 th November	2835
5 th September 1874	2521
16 th November	3236

3. Mr. Blaine's remark in
paragraph 2 is apparently written
under a mistake. The Government
of India did not intend that

the

the unserviceable stock of other
Companies should be purchased.

17th March 1872.

G.O. N: 928-8th

April 1872.

In making the suggestion this
Excellency the Governor General wrote—

"So long however as on
other Railways in India there are
large numbers of good new engines
that are not required and that can
be purchased, at the exact time
when they may be wanted, the
Governor General in Council cannot
allow the burden of guaranteed
interest to be needlessly increased
by the purchase for the Allahabad
Railway of similar engines in
England, whether the contingency
to be provided against is certain
or doubtful."

4.

The Board of Direc-
-tors in their letter N: 494,
G.O. 2078-30th August 1872, approved of
this arrangement.

5. The

489-Feby/72 Rs 390 + 391.
 - 8-April .. - 928
 - 30-Aug-72 .. - 2078 + 2079
 - 11-Oct-72 .. - 2388
 - 19-May/73 - 1392
 - 15-Oct-73 .. - 2571 + 2572
 - 26-Nov-73 .. - 2835
 - 5-Sept/74 - 2521
 - 16-Nov-74 .. - 3237
 - 18-Feby/75 - 4771 + 478
 - 19-March .. - 776
 - 15-Feby/76 - 399 orig.

P. N. 1856 Deflt
 To 2018
 The Consulting Engineer
 for Railways
 The Secy to Govt
 10 St. Sepul
 Govt. Saint George

Dated 12 March 1876
 Recd 20 March 1876
 No. 168

Submitting letter
 from the Agent, N. B. 3 ex-
 plaining the circumstances
 under which the amount
 for repairing of engines
 purchased at Calcutta
 has been exceeded

N. 183 -

Am 24-3-76.

No. 252

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE.

Madras, 14th March 1876.

From

R. B. Clinton Esq. & Co.
 Agent and Manager of the M. R. Co.

To

Mr. C. J. Hall & Co. Esq. & Co.
 Consulting Engineer for Railways.

Sir,

In answer to your letter of the 22nd ultimo, at 206,
 I have the honour to enclose you a copy of the Reso-
 lution of the Superintendent's letter at 120 of the 13th inst. and
 in which he explains the circumstances under which
 the first estimate for the repair of the two Steam
 Engines purchased from the Calcutta and South
 Eastern (State) Railway was exceeded.

It is much to be regretted that the
 Company was not allowed to buy the Engines
 they required from England, instead of being
 obliged to purchase them from the stock
 of an other Company in India.

I have the honour to be,

Sir,

Your most obedient servant

[Signature]

15
 From Mr. Stewart

To Col. S. Stewart

The Company of Madras R. W. have
 been led into a wasteful expenditure
 of a large sum — when the revised
 estimate of expenditure in repairs
 of the 2 purchased engines came
 before me — it seemed so large as
 must have arisen from some
 oversight —

The facts now disclosed are that
 according to the papers sent
 that engines were purchased without

20/5/78

1878
 2018/58

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer

for Railways.

Dated 14 March 1878
 Recd. 15. M. No. 1572.

Transmitted by the
 Agent and Manager
 the estimate for the
 repairs of the two loco
 engines purchased
 from the G. S. & Co. (G. S. & Co.)
 Railway being exceeded.

20/5/78
 1878

internal examination —

2. That the boiler was useless —

3. That the boilers were so attacked
by the frames that more than
ordinary cost had to be incurred in
removing them —

but reference to 1391. May 73 shows
in para 2 of Wright's letter that
he knew that one at least required a
"thorough overhaul & properly renewed"

of fuel & "boiler" so that he knew
the defects — and the mode of
attachment to the frames must
have been perfectly visible —

The same paragraph also shows that
he knew that No 3 had been so
very idle — as to raise doubts as to
its condition —

An estimate was then made of an
absolutely insufficient sum for the repairs
but this estimate was not made until
the engines had come into possession of

Madras Co. and any other intention
could be known

In matters just under hand I
know nothing of the circumstances -

I can however only come to one conclusion
viz. that this waste of money has
been caused solely by misapprehensions
and in the examination & preparation
of the estimate for repairs -

I draw attention to this not for the purpose
of fixing blame on this person or on that - but
that it may be improved in all offices where
it may be the duty to prepare & submit estimates, in
relation to this Government. The great
importance of ~~substantially~~ ^{most carefully}
examining these estimates before submission

There is no duty of equal importance
so frequently slighted -
There is no duty which reflects greater
discredit on an officers professional
ability or gives rise to greater ground
for suspicion as to the ^{soundness of his} ~~functional~~
superior in ~~attention~~ ^{attention} - than errors

Estimate

Errors in Estimates. in the great majority
of cases - arise from simple want
of care or oversight. i.e. neglect of
duty by the officer making it.

BVL 25/3/75

G.P. 1392 - 19 May 1873
 21571 - 1874
 3236-7 - 1875
 477-8 - 1875
 576 - 1876
 599 - 1876
 947 - 1876

PUBLIC WORKS DEPARTMENT.

MINUTE BY HIS GRACE THE GOVERNOR.
 No. 947, dated 10th April 1876.
 Locomotive Engines purchased from the Calcutta and South-eastern State Railway for the Madras Railway.

THE Company & Madras Railway ~~corps~~ have been led into a wasteful expenditure of a large sum. When the revised estimate of expenditure in repairs of the two purchased engines came before me, it seemed so large ~~that it~~ must have arisen from some oversight.

The facts now disclosed are ~~the~~ according to the papers sent—

- 1st.—That engines were purchased without internal examination;
- 2nd.—That the boilers were useless;
- 3rd.—That the boilers were so attached to the frames that more than ordinary cost had to be incurred in removing them;

but reference to No. 1,391, May 1873, shows in paragraph 2 of Mr. Wright's letter that he knew that one at least required a "thorough overhaul and possibly renewal of fire-box and boiler;" so that he knew the defects, and the mode of attachment to the frames must have been perfectly visible.

The same paragraph also shows that he knew that No. 3 had been so long idle as to raise doubts as to its condition.

An estimate was then made of an wholly insufficient sum for the repairs, but this estimate was not made until the engines had come into possession of Madras Company and any desired particulars could be known ~~of necessary examination made~~ ^{the} _{B.W.}

Mr. Trevithick just arrived knows, of course, nothing of the circumstances. I can, however, only come to one conclusion, viz., that this waste of money has been caused solely by insufficient care in ~~the~~ examination and preparation of the estimate for repairs.

I draw attention to this not for the purpose of fixing blame on this person or on that, but that it may be impressed on all officers whose duty it may be to prepare and submit estimates for railway matters to this Government, the great importance of most carefully examining their estimates before submission. There is no duty of equal importance so frequently slighted. There is ~~no duty~~ ^{nothing} which reflects greater discredit on an officer's professional ability or gives greater ground for suspicion as to the amount of his personal supervision and attention than erroneous estimates.

Errors in estimates, in the great majority of cases, arise from simple want of care or forethought, i.e., neglect of duty by the officer making them.

BUCKINGHAM AND CHANDOS.

25th March 1876.

C.B. - 10 April - 6
 1876

No 131-

No 947

Public Works Department.

PROCEEDINGS of the MADRAS GOVERNMENT.

UNDER date the 10 April 1876

Read the following:-

Read again

Proceedings of the Madras Government (No 399 of 15 July 1876)
Letters from the Comptroller (No 141 of 17 May 1876)
Engineers for Railways
Minister to His Highness
Government

The circumstances
under which the additional
outlay is considered necessary
will be explained to the
Government of India and
the sanction of that Govt.
required. A copy of the
minutes of the Committee will be
forwarded to the Government
of India for their information
and the sanction of the
Railway authorities.

Draft approved
Not see separate
observations on
separate sheet

1/24
referred

the order has been
sent to the authorities

for their consideration

including for the
22/5/76

(No 948 of 10/4/76)
The Secretary to the
Government of India
P. B. Keft (Railway)

Again directed to
forward the accompanying
ing correspondence
with

1876-

with a revised estimate amounting to Rs. 31,039 for putting into working order the two locomotive engines purchased by the Madras Railway from the Calcutta and South Eastern (State) Railway Company.

2. The engines were originally purchased for Rs. 16,798 and a sum of Rs. 19,000 was subsequently sanctioned for repairs.

A further sum of Rs. 12,039 is now stated to be necessary. The total cost of the engines will thus be Rs. 47,837. The previous correspondence on the subject is quoted below for ready reference.

To Secy of India No 1392 of 19th May 1883
 Do do do 2517 of 15th Oct.
 From do do do 1339 R 430
 To do do do 3237 of 16th Nov 1883
 Do do do 1678 of 18th Feb 1884
 From do do do 6118 of 5th Mar.

No 183-186

Dec 12/5/86

No 947

Public Works Department

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 10 April 1886

Read the following:-

Read again

Prop: P.W. Department (No. 1399 of 15th July 1886)

Read the following

Letter from the Consulting Engineer for Railways (No. 1411 of 17th March 1886)

Memo by His Grace the Governor (No. 825)

The circumstances under which the additional outlay is considered necessary will be explained to the Government of India, and that a decision of that Government is requested thereon.

2. The facts seem to be as follows:-

(1) That the engines were purchased without internal examination.

(2) That the boilers were defective.

(3) That the boilers were so attached to the frames that more than ordinary cost

Cost had to be incurred
in procuring them.

Reference to para 2 of
Mr. Wright's letter of the
18th April 1902 to 1279
Eng shows that he knew that
there was at least of the engine
and required a thorough over-
haul and possibly re-

* C201321 d/19th 7/173.

2. removal of fire box and
oil boiler. The smoke of
No 2 attachment to the engine
No 2 must therefore have been
perfectly visible. The
same paragraph also
shows that the locomotive
superintendent was
aware that No 2 had been
long idle as to price
No doubts as to its condition
in being in the possession
of this knowledge and
for estimate for repairs was
framed wholly insuffi-
cient in amount. The
estimate was drawn
up after the engine had
come

came into possession
of the Company and
any desired particulars
could be ascertained.
The only conclusion
that can be come to
on consideration of these
circumstances is that
the Company and the late
Government have been
committed to a wasteful
expenditure solely by
insufficient care in the
examination and prepara-
tion of the estimate
for repairs.
His Grace the Govern-
or in Council have
noticed this particular
case in detail in order
that all Officers whose
duty it may be to prepare
and submit estimates
for Railway works to the
Government may be
impressed with the great
importance of
carefully examining their
Estimates

Redundant for the
university. It is in
a study of great importance
so frequently neglected.
There is no duty so high
when ill-performed
reflects greater discredit
on an officer's professional
ability, or gives greater
ground for suspicion
as to the amount of his
personal supervision
and attention. For errors
in Redundant in the great
majority of cases arise
from want of
care or foresight,
in other words, neglect
of duty.

At. No 948 of 1897
No 948

The Secretary to the
Government of India
P.W. Dept (Railway)

Sir,
I am directed by Com. Insp. for Railways
to forward the accompanying
correspondence.

Correspondence with
a revised estimate a-
mounting to Rs 3,039
for putting into working
order the two locomotive
engines purchased by
the Madras Railway
from the Calcutta
and South Eastern State
Railway Company.
The engines were
originally purchased
for Rs 16,798 and a sum
of Rs 19,000 was subse-
quently sanctioned for
repairs.

A further sum of
Rs 12,039 is now stated
to be necessary. The
total cost of the engines
will thus be Rs 47,837.

The previous corre-
spondence on the sub-
ject is quoted below
for ready reference.
Ld

P

To Capt. J. A. ... 1892 ...
Do Do ... 2512 ... Oct ...
From Do Do ... 1852 ...
Do Do ... 3237 ...
Do Do ... 478 ...
From Do Do ... 1118 ...

Q

[Faint, mostly illegible handwritten text in cursive script, appearing as a list or ledger entries.]

unrecovered

PUBLIC WORKS.

1/20 Camp at the left of
+ the Camp at the right of

712.

1000 *967*
968

Doc 182-155

Ent. 12. 76

For forwarding correspondence
with a revised sketch
amounting to Rs 31,0
for putting in working
order the two locomotives
engines purchased
the Madras Ry from the
Calcutta & South Eastern
(State) Ry Company

Locomotive Engines purchased
from the Calcutta Engine-
& Steam Locomotive Co. for the
Madras Ry. - Having
order on the Exchequer
submitted by the Comptroller
for Rs. 1,00,000 the increase
in the Estimate for 1861
- viz the -