

(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.	1301	(Ry)	Press
~~B.P. No.~~			~~Mis.~~
Dated	24-5-		1876.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
24th May 1876.*

No. 425. Read the following 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, 12th May 1876, No. 238 :—

I HAVE the honor to submit for the sanction of Government an estimate, amounting to Rupees 80,820, for repairs to the Pennair bridge at the 234th mile, North-west Line, Madras Railway. It will be observed that nearly the whole of this expenditure has been already incurred, the only work remaining to be carried out being that specified in the Deputy Consulting Engineer's report, recorded in the Proceedings of Government, dated 21st April 1876, No. 1,012.

2. The original estimate of Rupees 10,762, forwarded with my letter No. 762, of 16th December 1874,* provided for rebuilding piers 21 and 22, which had been completely destroyed. Unforeseen

difficulties, however, prevented the carrying out of this work; and on further examination it was found that all the piers, from 17 to 20, were more or less damaged, some of them being in an unsafe condition. It became necessary then to make temporary arrangements until the permanent restoration of the bridge could be undertaken, and these have been modified from time to time as fresh obstacles have cropped up. Full explanation regarding the various measures proposed will be found in the Proceedings of Government,

No. 949, dated 10th April 1875,

„ 1,508, „ 31st May „

„ 1,792, „ 28th June „

and with my letter of the 4th April 1876, No. 167, was forwarded a plan showing the arrangements which have been finally adopted.

3. For the sum of Rupees 31,659, entered in the estimate as having been passed to account, details are not forthcoming, owing to the accounts for different items not having been kept separate; but this expenditure represents—

- (1.)—Cost of temporary sleeper piers.
- (2.)—Screwing pile trestles.
- (3.)—Fitting and sinking cylinders.
- (4.)—Fixing cross girders.
- (5.)—Revetting and putting up supporting girders.
- (6.)—Teak timber and mango planking.
- (7.)—Removing masonry piers and debris.
- (8.)—Jungle-wood piles.

Of the amount of Rupees 41,472 for stores, the greater part will be recovered when the permanent restoration has been carried out; as the screw piles, girders, and cylinders will be used in other works, so that the net cost of the repairs will probably not exceed Rupees 50,000.

4. The whole of the expenditure is being met from Revenue Funds, Schedule G.

5. The borings in the river-bed are now completed, and a report on the question of the future treatment of the bridge, based on the information thus obtained, may soon be expected.

Proceedings of the Madras Government, Public Works Department,
24th May 1876.

No. 426.

ORDER THEREON, 24th May 1876, No. 1,301.

RAILWAY, No. 42.

G.O., No. 697, dated 12th March 1875.

With this letter the Consulting Engineer submits a revised estimate amounting to Rupees 80,820; the increased cost being due to the additional work found necessary during the progress of the reconstruction operations, the nature of which have from time to time been reported for the information of Government. The larger estimate is now sanctioned. It is explained that Rupees 31,658-10-7 have already been charged off as expenditure in the accounts, and that a recovery of the greater portion of Rupees 41,472 set down for stores should ultimately be made.

2. The expenditure is chargeable to Reserve, Schedule G, of the Budget Estimate.
3. The sanction above accorded has been registered as Railway No. 4 W. of 1876-77.

(True Extract.)

Colonel,

Offg. Under Secy. to Govt., P.W.D.

MADRAS RAILWAY.

ENGINEERING DEPARTMENT.

Schedule G. Budget 1876/77.

Estimate.

Required for the Madras Railway in the

North West Line

This sanction will lapse at the end of the fourth quarter after the receipt of sanction in this Office.

DESCRIPTION.	To be expended Departmentally	To be drawn from Stores.	Total.
<i>Revenue</i>			
<i>3rd Repairs of Bridges &c.</i>			
<i>(1) Bridges and Tunnels.</i>			
<i>Repairing Breach in Pennair Bridge caused by Floods &c. as per annexed Revised Estimate</i>	<i>39,348</i>	<i>41,472</i>	<i>80,820</i>
Total...	<i>39,348</i>	<i>41,472</i>	<i>80,820</i>

Submitted for approval and Sanction to the Government of

Agent and Manager, Railway

CHIEF ENGINEER'S OFFICE,

1st May 1876.

W. R. Robinson
Ag. Chief Engineer, Railway.

Consulting Engineer to Government.

Secretary to Government.

17.8456/76.

Revised

North West Line.

3

Estimate of the cost of temporarily repairing Breach in
main Bridge, caused by Floods on the 25th October 1874.
as per Plan No. 188.

DESCRIPTION.	Quantity.	Rate.	To be expended Departmentally.	To be drawn from Stores.	Total.
at Cash Expenditure to account up to date			31658 10 7 1/2		
Well Curb — No.	26	76 1/2	" "	1976	
Screw Pile Trussels — No.	8	130 1/2	" "	10640	
Cross Spiders Bracings — No.	6	165 1/2	" "	9871	
Cylinders — Lft.	124	69 1/2	" "	8618	
All Stores			" "	3572 10 5	
ing Apparatus			" "	3023 12 2	
owing remains of old Pier below ground level.			1000	" "	
timber in temporary to with sleepers for No. 21. — Cft.	756	3 1/8	2646	" "	
revetment round superpont under Pier — Cys.	20	4 1/2	80	" "	
screwing in a pair of Pile Piers in place of No. 21. — Sets	2	408 1/2	816	" "	
screwing Piles deeper Piers Nos 18 and 22. — Sets	6	408 1/2	2448	" "	
gencies			699 55	3770 9 5	
Carried Over			39348	41472	

Actual Store
Expenditure.

477.3466/2/96

DESCRIPTION.

Quantity.	Rate.	To be expended Departmentally.	To be drawn from Stores.	Total
Brought forward. Rs.		39348 ..	41472 ..	
Total Rupees.		39348 ..	41472 ..	80820 ..

Rupees Eighty thousand, eight hundred and twenty

Chief Engineer's Office
1st May 1876
The Chief Engineer
Dept. & Manager

W. P. Collins
Ag. Chief Engineer
R.D.

This sanction will lapse at the end of the fourth quarter after the receipt of sanction in this Office.

Memo

Total Amount of foregoing revised Estimate. Rs.	80820 ..
Amount already sent in for sanction on the 28th November 1874.	10762 ..
Difference. Rs.	70058 ..

RAILWAY DEPARTMENT.

CONSULTING ENGINEER'S OFFICE,

Madras, 12th May 1876.

No. 238

From

LIEUT.-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,

Fort Saint George.

SIR,

I have the honour to submit for the sanction of Government an estimate, amounting to Rs 80,820, for repairs to the Pennar bridge at the 234th mile, north-west line, Madras Railway. It will be observed that nearly the whole of this expenditure has been already incurred, the only work remaining to be carried out being that specified in the Deputy Consulting Engineers report, recorded in the Proceedings of Government.

Government dated 21st April 1876
N^o 1012,

2 The original estimate
of Rupees 10,762, forwarded with
my letter N^o 762, of 16th Decr 1874, ^{Pro: of Gvt.} d/4 ^{Feb 19.} 1875
provided for rebuilding piers 21 and 22, which had been completely des-
troyed. Unforeseen difficulties, ^{N^o 310.}
however prevented the carrying out
of this work; and on further exami-
nation it was found that all the
piers from 17 to 20 were more or
less damaged, some of them being
in an unsafe condition. It
became necessary then to make
temporary arrangements until the
permanent restoration of the
bridge could be undertaken, and
these have been modified from
time to time as fresh obstacles
have

have cropped up. Full explana-
tion regarding the various measures
proposed will be found in the
Proceedings of Government

N^o 949 dated 10th April 1875,

" 1508 " 31st May 1875,

" 1792 " 28th June 1875,

and with my letter of the 4th April

1876 N^o 167 was forwarded a

plan showing the arrangements

which have been finally adopted

3. For the sum of Rupees

31,659, entered in the estimate

as having been passed to ac-

count, details are not forthcom-

ing, owing to the accounts for

different items not having been

kept separate; but this expen-

diture represents:-

1. Cost of temporary sleeper piers
2. Screwing pile trestles
3. Fitting and sinking cylinders
4. Fixing cross girders
5. Resetting and putting up supporting girders
6. Laid timber and mango planking
7. Removing masonry piers and debris
8. Jungle wood piles -

If the amount of Rs 41,472 for stores, the greater part will be recovered when the permanent restoration has been carried out; as the screw piles, girders, and cylinders will be used in other works; so that the net cost of the repairs will probably not exceed Rs 50,000

4 The whole of the expenditure is being met from Revenue Funds. Schedule P.

5 The borings in the river bed are now completed; and a report on the question of the future treatment of the bridge, based on the information thus obtained, may soon be expected. I have the honor to be,

Sir,

Your most Obedt Servant,
Muntawant

For Railways

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putting
revised
to Papers
d cost
additional
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of the
tons, the
nature

28th Feb 75 No 310 + 311.
 - 12th June 75 - 697
 - 10th Apr - 349.
 - 31st May - 1508.
 - 28th June - 1792
 - 18th Oct - 2972
 - 21st Apr 76 - 1012.

3. W. 1876 Depd
 No: 346

No. 1301

Public Works Department.

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 24th May/76

Read the following:—

From

The Cons^g. Engrs for
Railways

(M.E. No. 238 of 12th May 1876)

The Estimate already
 sanctioned for the restoration
 of the Pennair bridge on
 the North West line of
 the Madras Railway
 amounts to Rs 10,762. With
 this letter the Consulting
 Engineer submits a revised
 Estimate amounting to Rs
 80,820; the increased cost
 being due to the additional
 work found necessary
 during the progress of the
 reconstruction operations, the
 nature

* GO. 697 of 12th March 1875

This is to be
 sent to the
 P.W.D. for
 their consideration.

1/10

RAILWAY DEPARTMENT.

From

The Consulting Engineer

for Railways,

To

The Secretary to Government,

P. W. Department,

Fort Saint George.

Dated

12th May

1876.

Received

13th May

No.

238

E. E.

Submitted by

for the Secretary to the

Pennair bridge committee

West Line Madras

Respectfully

No. 425

Cir. 16.5.76 M.E. 24/5/76

34661 CA

Gobi. of 1870: 300000.
PUBLIC WORKS.

To

The Govt. Secy for W.

Dated

Encl

Recd

Encl

G. O., 24th May 1876, No. 1301

No. 1, 2, 3, 4

nature of which have from
time to time been reported
for the information of
Government. The larger
estimate is now sanctioned.
It is explained that
Rs 3,058-10-7 have already
been charged off as ex-
penditure in the accounts,
and that a recovery of
the greater portion of Rs 4,472
set down for stones
~~charge~~ ultimately be made.

2. The expenditure is
chargeable to Reserve,
Schedule G of the Budget
Estimate.

Pennair Bridge
(Madras Ry)

The sanction above
recorded has been
registered as Railway
No. 4 W. of 1876-77-

Revised Estimate
for the restoration of
the ——— canal

No. 425/26

sent in Regd.
6-6-76