

(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.	2598	Press
B.P. No.		Mis.
Dated	27-9-	1876 195.

Not to be folded or roughly handled

19

1

Proceedings of the Madras Government, Public Works Department,
27th September 1876. No 2,598.

Read again G O, No 1,654, dated 30th June 1876 —

Read also the following letters —

No 487. From Major P MONTGOMERIE, R E, Officiating District Engineer, Presidency, to Major-General G. W. WALKER, R E, Secretary to Government, Public Works Department, dated Fort St George, 21st August 1876, No 2,766

In accordance with G Q, No 1,654, dated 30th June 1876, I have the honor to submit a plan and estimate, amounting to Rupees 3,100, for renewing the existing wooden structure over the central bay of St. Mary's Bridge and placing the remainder of the bridge in a state of repair

- 1 Plan
- 1 Estimate
- 1 Specification Report

2 As directed in the above-mentioned Government Order, the work is being proceeded with and will be completed shortly.

No 487-A From Major P. MONTGOMERIE, R E, Officiating District Engineer, Presidency, to Colonel W. FAREWELL, Officiating Deputy Chief Engineer, Public Works Department, dated Fort St George, 24th August 1876, No 2,831.

As a mistake has been made with reference to the rate of asphalt in the estimate, amounting to Rupees 3,100, for St Mary's Bridge submitted with my letter No 2,766, dated 21st August 1876, I have the honor to request that you will be good enough to return the same, together with the plan and specification report, so that I may have them corrected and resubmitted.

No 487-B From the same Officer, dated 6th September 1876, No 3,116

With reference to your memorandum, No T-834, dated 25th August 1876, I have the honor to resubmit the plan and estimate for St Mary's Bridge, together with a revised copy of estimate, amounting to Rupees 3,000, and a copy of letter from the Supervisor, Northern Range, explaining the apparent inaccuracies in quantities and rates.

- 1 Plan
- 1 Estimate
- 1 Revised Estimate
- 1 Specification
- 1 Copy of letter
- 1 Data

Proceedings of the Madras Government, Public Works Department,
27th September 1876. No 2,598

No 488. ORDER THEREON, 27th September 1876, No 2,598.

CIVIL WORKS, No. 34

(a) Heads of Service — Provincial
Fund — Ordinary,
Class — Repairs
Main-head — (2), Communications
Sub-head — 1, Main Roads
Name of Work — Repairing St Mary's Bridge
Amount — Rupees 3,000
To be carried out by the Public Works Department

HIS GRACE the Governor in Council sanctions the estimate of Rupees 3,000 for repairing St Mary's Bridge over the Cooum river in Madras

2 The work has been proceeded with in anticipation of a specific allotment of funds, which will be made later in the year.

3 This sanction has been registered as Provincial No 146 W of 1876-77.

(True Extract)

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

To the District Engineer, Presidency
" Examiner of Public Works Accounts.
" Financial Department.

Exd E C Shunker
Spare Copies

PRESIDENCY DISTRICT ENGINEER'S OFFICE,
Fort Saint George,
21. August 1876.

No. 2766.

From

THE DISTRICT ENGINEER,

To

PRESIDENCY,

THE Chief Engineer, and
Secretary to Govt M.O.

Sir,

Encls.

1 Plan.

1 Estimate

1 Specification
Report.

In accordance with G.O. No 1654 dated 30 June 1876, I have the honor to submit a plan and estimate amounting to Rs 3,100 — for renewing the existing wooden structure over the central bay of St. Mary's Bridge and placing the remainder of the Bridge in a state of repair.

2. As directed in the above mentioned G.O. the work is being proceeded with and will be completed shortly.

I have the honor to be

Sir,

Your most obedient servant
Montgomery Napier.

Offg. Dist. Engineer, Presidency.

8030-6-76 No 1654

P.W.D.

221076

5048

to the Chief Engineer
The District Engineer
Presidency
Submitted 21st Aug 76
No 2766
Submitted to file
and estimate, and by
to Rs 3100 for removing
the existing material
structure over the arch
way of St. Mary's Bridge.
C.E. No 2725
25th Aug 76

No 487

Recd - 18.9.76
Mae
Dept. of - 9-9-76

No 2831.

7125

From,

Immediate

The District Engineer
Presidency

To,

The Under Secretary
to Government W.P.

Sir,

As a mistake has been made with refer-
ence to the rate of asphalt in the estimate amount-
ing to Rs 3,100 for Saint Mary's Bridge sub-
mitted with my letter No 2766 dt. 21st August
1876, I have the honor to request that you
will be good enough to return the same
together with the plan and specification report
so that I may have them corrected and re-
submitted.

I have the honor to be

Sir,

Your most obedient servant

W. J. P. W. P.
Offg. District Engineer
Presidency

W. J. P. W. P.
24 Aug 1876

Recd.

Nº 771

Sept 6 - Aug - 9-9-76.

Quantity or Number	Description of work	Rate	Per	Amount	Total Amount
66 1/2 cft	Teak wrought iron spikes including iron spikes on rails	3 1/2	cft	203 8	
210 Sft	Wooden hand rails including all charges	12	Sft	167 8	
53 1/2 Sps	Sarring wood work, with two coats of boiling coal tar	12 6	Sps	42 12 6	
6 7/8 Sps	Painting with Pearson's Stove color (3 Coats)	3	Sps	20 10	
252 cft	Brick in Mortar	2 6	cft	39 6	
15 cft	Cornice	3 6	cft	9 13 6	
23 1/2 Sps	Plastering Cornice with 2 Coats Chunan	3 10	Sps	11 12 6	
2 1/4 Sft	String Cornice	2	Sft	33	
54 1/2 Sps	Plastering with two coats of Chunan	2 6	Sps	129 7	
16 1/4 Sps	Plastering the intrados of existing arches with two coats of Chunan	3 6	Sps	49 4	
	Carved Cornice				

Quantity or Number	Description of work	Rate	Per Amount	Total Amount
	Brought over		2525 10	
9 1/2 bps	Repairing the roads with 9 inches of broken granite and 1 inch gravel	7 1/2 bps	84 7 1	
347 lb	Iron bolts from the P.M. Workshop wrought & fixed	4 lb	86 12	
8 1/4 bps	Asphalt 3/4 of an inch on thick beds over the plant	23 1/4 bps	191 13	
	- ing			
	Sundry charges including high scaffolding		216 3 4	
	at 1/2 bps		230 14 1	
	Total Rupees		3830	3100

Fort St George
21st August 1876

A. Miller Supervisor
In charge of S. Range

23/8/76

Montague Major Rb
District Engineer Secy

Comptroller
21-8-76

Ni.

Detail of work	Sq	Measurement in Feet			Total quantity of each description of work
		L	B	or Content	
Teak					
Girders	14	39 1/2	2 1/3	1	368 3/4
Struts	28	9 1/2	7 1/2	7 1/2	90 3/4
Planking	1	31 1/2	26	1/4	204 1/4
Total Content of Teak					664
Ornamental wooden hand rails	2	30	3 1/2		210
Tarring the wood work					
Girders	12	33 1/2	3 1/3		1340
Struts	24	9 1/2	2 1/3		532
Planking	24	31 1/2	26		3276
					5358
Total Square					53 1/2
Painting with persons & stone color					
Girders	2	39 1/2	3 1/2		276 1/2
Struts	2	9 1/2	2 1/3		44 1/3
Hand rails	2	180	1		360
					680 5/6
Total Square					68 1/2
Deck in front of					
Between and over Girders	2	27	2	1 1/2	162
					162

Man

Dupre

Adrian
Quarrier & Co. L.L.C.

Ms A.9.2.18.46.77.

Admiral's form

Supp. Smithings
Dorset on the river

Comme d'habitude,

No 3100

Eu

Particulars of work done	No	Measurements in Feet			Area or Content	Total quantity of each description of work
		L	B	D		
Under hand rail	2	30	1 1/2	1	90	162
Cornice	2	(30)	3/4	1	45	45
Plastering the Cornice at black	2	162	1		324	324
String Cornice Running full	4	66			264	264
Plastering with 2 coats of Chumam						
Wing walls	4	30	7		840	
Stone of Shore arches	4	35	8		1120	
Return	4	2	13		104	
Abutment and pier	4	33	3		396	
Side walls of the Centre opening	2	27	13		702	
Parapet walling	2	134	8 1/2		2278	
					5440	
Plastering the intrados of arches						Total Squares 8 1/2
Shore arches	2	27	30		1620	
						Total Squares 16 1/2
Repairing the roadway with 9" of broken stone and 1" of gravel	1	38	24		912	9 1/8
Iron wrought and put up for bolts	56	1 1/8	one inch diameter			367 lb
Asphalting						
Asphalt 3/4" in thickness over the plank	1	31 1/2	26		819	8 1/2

Fort St George
21st August 1876

Comd. C. V.
21. 8. 76

A. Miller, Supervisor
In Charge of N Range.

Montgomery Jones Esq
District Engineer Pres.

221076

No.

N. 233. A. 222

233

20²³³ 1998-1876-77.

No 99 of 1876-77.
Specification to accompany a plan and estimate ⁽¹⁵⁾
for the repair of Saint Mary's Bridge Madras.

Amount of Estimate \$ 3000.—

This bridge has three openings, the outer are arched and the Centre has a wooden platform as shown in the plan attached. This platform is in a very advanced state of decay and it is necessary to renew it. The plastering of the bridge is in a very bad state and it is necessary to replaster it.

All the woodwork is to be of the best sound oak and is to have 2 Coats of boiling tar with the exception of the outside of the outer girder and the hand rails which are to have 3 Coats of Carsons Stone Color paint. Three inch plank is to be laid diagonally over the beams well banded and spiked down, a layer of asphalt 3/4" thick to be laid down over the plank for the protection of the woodwork. The whole of the bridge is to be plastered with 2 Coats of Churnam. The roadway is to be remade with 9 inches of broken granite stone and one inch of gravel. The clear headway above flood line is to be 8 1/2 feet as in the original plan, but the beams are to be placed on edge instead of flat.

flat. Demerocoast &c will be found in detail in the plan and estimate.

Fort St. George }
25th August 1846 }
1846 }

A. Michel Supervisor
In Charge of N. Range
Montezuma Mayor & Co.
District Eng. Presidency

[Faint handwritten notes at the bottom of the page, likely bleed-through from the reverse side.]

[The page contains dense, handwritten cursive script, which is mostly illegible due to extreme blurring and low contrast.]

Handwritten signature

(17)

Best of laying Asphalt to $\frac{1}{4}$ of an inch in thickness made with 1 of Asphalt to $1\frac{1}{4}$ of Sand.

Number or Quantity	Material & Labor	Date		Unit	Amount		
		Mo.	Da.		Mo.	Da.	Cent.
400 lbs	Asphalte	56	a	u	10	a	a
500 lbs	Sand or 2 1/2 Bars	a	1	1	a	2	8 1/2
600 lbs	Firewood	11	a	u	2	15	1/2
2 1/2	Bricklayers	a	8	a	1	4	a
2 1/2	Men Hoobies	a	4	a	u	10	a
2 1/2	Boys	a	2	a	u	5	a
1/2 day	gingally oil	a	8	9	u	4	1/2
1 Sq. of	Concrete 3 inches in thickness	a	a	a	3	4	a
1 Sq. of	third part bricks laid flat in one Course	a	a	a	2	a	a
	Add 12 percent for wear of tools & profit	a	a	a	2	6	9 1/2
	Total				23	4	a
	Deduct the value of 3 of Concrete and a leveling Course as above				5	4	a
	Total for one square of Asphalte				18	a	a

Frank George
1st Sept 1878

J. Miller Sup 2
In charge of N. Range

P.W.D.

7 EP76

8680

114

No 233 of 1876/77

A Contract Estimate

(19)

Heads of Service — Provincial

— Funds — Provincial

— Works — Repair

— Main Heads — Communications

— Sub-Heads — Bridge

Name of work — Repairing Saint George Bridge

— across river Cooum Madras District Oct 1854 of 30 June 1876.

Amount Rupees 3000—

To be Carried out by the Department.

Quantity or Number	Description of work	Rate	Per	Amount	Total
664	6 ft 6 in wrought rods put up in the	3	1	6 ft 2033	8
210	Sp. Wooden bands rails including all charges	12	6	157	8
35 1/8	Sp. Tarring wood work with 2 Cents of boiling Coal tar	12	6	27	7 1
8	Painting with Coarse stone Color 3 Cents	3	—	24	—
252	6 ft 6 in Bricks in mortar	2	6	39	6
45	Sp. Cornice	3	6	9	12 6
3 1/2	Sp. Plastering Cornice with 2 Cents	3	10	11	12 6
264	Sp. Strong Cornice	2	—	33	—
54 1/2	Sp. Plastering with 2 Cents of Chunam	2	6	129	7
16 1/4	Sp. Plastering the intrados of existing arches with 2 Cents of Chunam	3	—	49	4 1
9 1/8	Sp. Repairing the roads with 9 inches of broken granite and 1 inch gravel	7	1	8	64 7 1

Carried over 2579 9 3

Quantity or Number	Description of work	P.W.D. Rate per unit	Total
173	the Iron bolts from the P.W. Workshop wrought and fixed	25/9	
8 1/2	Sq. of an inch in thickness over the plankings	15/-	
	Scaffolding		
	Landrois and Contingencies		
	Total Rupees		3000

Fort St George
1st September 1876

A. Michel Supervisor
In Charge of Western Range

Chen Go Main Major
Officer in Charge

N.B.
Last repairs were completed in 1877-78 for Rs 200
Value of the Bridge is Rupees 4,000

Estimate for
repairing and
improving the
on the river
amounts to Rs 6,000

Chen Go Main Major

No 233 of 1876/77
Detail Estimate

(21)

Head of Service — Provincial
 Funds — Provincial
 Class — Repair
 Main Head — Communications
 Sub Head — Bridge
 Name of work — Repairing and Main Bridge
 in the River Cooum Madras Vody by O to 1852 of 30 June 1776
 Amount Rupees 3000
 To be carried out by the Department

Detail of work	No	Measurement in Feet			Area of each description of work	Total quantity of each description of work
		L	B	D		
Girders	14	29 1/2	2	1	368 1/2	
Struts	28	9 1/2	2	1/2	90 3/4	
Plankings	1	31 1/2	26	1/4	204 1/4	
Total length of rails						664
Ornamental wooden hand						
rails	2	30	3 1/2			210
Girders	12	33 1/2	3 1/2		1340	
Struts	24	9 1/2	2 1/2		532	
Plankings	2	31 1/2	26		1638	
						3570
Total Square						35 1/8
Scarfs	28	6	2		112	
Girders	2	33 1/2	3 1/2		234 1/2	
Struts	4	9 1/2	2 1/2		88 1/2	
Hand rails	2	180	1		360	
						794 1/2
Total Square						8

Detail of work

Description of work	No.	Measurement in Feet			Area or Content	Estimated quantity of each description of work
		L	B	D		
Between and over garden	2	27	2	13	162	162
Under hand rails	2	30	1 1/2	1	90	90
Total 6. Feet						252
Cornice	2	30	3/4	1	45	45
Plastering the Cornice at blocking Carro	2	162	1	1	324	324
String cornice Running feet	4	16	1	1	264	264
Wing walls	4	30	7	1	840	840
Face of stone arches	4	35	8	1	1120	1120
Return	4	2	13	1	104	104
Abutment and pier	4	33	3	1	396	396
Sidewalls of the Cuttings opening	2	27	13	1	702	702
Parapet walls	2	124	8 1/2	1	2278	2278
Total Square						5442
Stone arches	2	27	30	1	1620	1620
Total Square						1644
Repairing the roadway with 9" of broken stone and 1" of gravel	1	38	24	1	912	912
Iron wrought up for bolts 56 1/2 one inch diameter 178 lb						
Asphalt 3/4 in thick over the planking	1	31 1/2	26	1	819	819

A. Miller Supervisor

In Charge of Northern Range

Thakurjee Mohan & Co
Off. Dist. Eng. Presiding

For Mr George
1st September/76

Comptd B. 11/9/76

No 228.

70

1 September 1876.

(25)

The Offg. District Engineer
Presidency.

Sir,

I beg to return the estimate for the Saint Mary's Bridge as directed as directed in your Memo No 2892 of 28 ultimo. The length of the girders (39 1/2) is given in the estimate is got as follows -

From end to end 33 1/2 feet
Two scarfs — 6 "
Total 39 1/2 feet

Encl. 6

1 Plan

1 Estimate.

1 Detail

1 Specimen

Letter

Letter

II. The rate for asphaltting in the District, Schedule of rates is incorrect; this will be seen from the report forwarded with my letter No 481 of 10 March 1876. The correct data is herewith enclosed.

This does not fully explain the excess that was in the estimate. The rate for asphaltting over concrete was given instead of that over planks in eq.

III. The estimate was made by me with the exception of the multiplying and the putting in of the rates for asphaltting, and one or two other items which was done by Estimator & Vistmasawmy (Maidoo).

I

P.W.D.

7 SEP 76

No. 5153

Thug to:

1/84 A. Milne, Supr
Inch Northern Rang.

(True copy)

Monty Macin Keap. R.R.

Offg. District Engineer
Presidency

1/10/76

Encls
1 Plan
1 Office Note
with file

No 3279

15 Sept. 1876

(25)

Under my orders I am
showing to Mr. Macin

The District Engineer
Presidency
The District Engineer
Presidency

On accordance with
your office note of yesterday
date I have the honor
to return the Plan of St.
Mary's Bridge with the stone
on which the ends of the
beams rest, duly indig
cated. It was never intended
to build up the piers between
the wooden beams, the ends
of these beams are to be left
open in the usual manner
to allow of a free circulation
of air and to prevent any
damp. I regret that this
was

was not shown quite clearly
on the Plan at first.

In the data for laying
asphalte, the item entered
as "12 per cent for wear of
pots & profits" might have
been more simply put down
as sundries and contingencies;
this item includes the wear
and tear of the iron pots which
is always very great in this
description of work and to
allow of a slight margin
(unhappily termed "profit" by
the Range Officer) to reward
contractor who would
take up the work.

I have the honor to be

Yours most obedt Servt

Thos Jones Major

Offr District Engrs

1030-6-76 No 1654.

P.W.D.
P.W.D.
15 SEP 76

No 1030-6-76
11/9/3

Return Plan of
St Mary's Bridge
with necessary
time needed on

Recd. 15/9/76
710 3479
The District Engineer
Presidency
Vide No 6493 of 10

Recd 27 9 76
cii - 18-9-76
sent to 64-15-7-76

No 3116.

(24) 18-9-76

From,
The District Engineer
Presidency

To
The Dy. Chief Engineer
S.P.W.

Sir,
With reference to your Memo No 710 3479
of 25 August 1876; I have the honor to re-
submit the plan and estimate for Saint
Mary's Bridge together with a revised copy
of estimate amounting to Rs 3,000, and a
copy of letter from the Supervisor (Northern
Range) explaining the apparent inaccura-
cies in quantities and rates.

I have the honor to be

Sir,
Your most obedient servant
Thomas Marie Esq. R.E.
Offg. District Engineer
Presidency

of

Sh 9,32

Remitted to Shaw and
colimate for Saind
Shaw's Passage together
with a revised copy of
Colimate amounting to
Rs 3000.

110.3116
J. L.

Shed
Beetle
J. G. Smith

The City Chief Engineer

The District Engineer
Washington.

Hand

E. X.

* / Plan given to Librarian

N^o 48708

Chc. 6048-

31

33

MEMORANDUM.

Letter Number 2756.
dated the 21 August 1976
from the District Engineer of Princetown

The Place St. de - ~~de~~
uninhabited. The above
quoted letter are herewith
returned to the Ex. Mr. & Mr.
is asked to be shown in
the collection in the list
handed out in, 1866.

The Rate changed for
 Rotten flooring, being
 Rs 9. 34 per square
 instead of the former
 Rs 10. 50 per square
 of Rotten flooring
 The new Rate of
 Rotten flooring is
 Rs 9. 34 per square
 The new Rate of
 Rotten flooring is
 Rs 9. 34 per square
 The new Rate of
 Rotten flooring is
 Rs 9. 34 per square

By order Wm

62159
Sept 9-9-76

GOVT.
OF MADRAS. }

1876.

{ P.W.
DEPT.

SECRETARY.

Fort St. George, *Sept 13^r* 1876.

OFFICE NOTE

To *Dist. Sup. Ins.*

Please correct the following
as I personally pointed
out to you - and
supply explanations
in an official letter
in answer in reference
to the high rate of 12
per cent for the use
of "Pot" and say what
is meant by "Profit"
under head of "Pot &
& Profit" in the bill
for hospital.

W.H.
13.9.

Returns with an
Official Communication
as requested

Ch
14/9/26

No 2598

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the *27 Sept 76.*

Read the following - again *Ch*

1654, dated 30th June 1876.

Read also the following:

From the District Engineer:
Presidency { *H.E. No 2466 of 21 Sept 76*
do do { *2831 of 24th do*
do do { *3116 of 6th Sept 76*

His Grace the
Governor in Council
sanctions the estimate
of Rs 3000 for repairing
St. Mary's Bridge
over the Cooum River
in Madras.

2. The work has been
proceeded with in
anticipation

anticipation of a specific
allotment of funds
which will be made
later in the year.

3. This sanction has
been registered as Pro-
vincial No 146 of
1876-77.

Sanction

W.L.

8.9.76

No 487/88

Dr. Presidency ✓
Ex. P. W. Accts ✓
Finl Acpts ✓

Desd 13/10/16

Desd 13/10/16

14-5-18V

6/12/18
6/12/18
6/12/18
Govt of 1876 Madras.

PUBLIC WORKS.

To
The R. & Presidency

Dated

Issued

Recd

Encl

G O. of 1876, No 2198

Nos. 487/88

St Mary's Bridge over the
Crown River in Madras.

The estimate of Rs 3000
for repairing —, sanctioned

6/12/18
6/12/18

By Mr.