

(1) Number of pages 26(2) Date of repair 5-11-38(3) Initials of the Referencer Q**MADRAS RECORD OFFICE.****Government of Madras.***Public Works* **DEPARTMENT.***Envo. 20-1-1860*

G.O. No.	124	Press Mis.
76-77 Dated	18-1-	1860.

Not to be folded or roughly handled*911
5/11/38*

*Proceedings of the Madras Government, Public Works Department,
for the month of January 1860.*

No. 76. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer;
to J. D. BOURDILLON, Esq., Secretary to Government, dated 29th December 1859,
No. 8750.

With reference to the orders of Government noted in the margin,* I have the honor to submit herewith a plan and estimates, received from the Civil Architect and prepared by that officer in communication with Mr. Faulkner, for raising the centre arch of Saint Mary's bridge.

* No. 2110, dated 2nd September 1859.
No. 2134, dated 5th do.

1 Letter from Civil Architect, No. 1032, 1 enclosure, dated 2nd December 1859, with 1 plan and 2 abstract estimates.

2. The estimate submitted by Captain Hitchens and corrected in this office to Rupees 13,720, provides for improving the three arches of which sum, Rupees 11,850 is for iron work and superintendence to be executed by Mr. Faulkner on contract, which latter it is to be observed is charged at a high rate.

3. Under the instructions of the Honorable the Governor, the middle arch of the bridge has been removed and will be shortly replaced by a temporary platform of Irool wood beams. The masonry has been found so much stronger than was expected, that I no longer consider it necessary to remove the side arches, but propose to bind the piers to the abutment by iron ties, and thus to secure them against the thrust of the side arches.

4. I have accordingly caused a revised estimate of iron girders to the middle bay only as follows:—

	Rs.
For masonry work	542
Iron work complete	3,670
Establishment, &c.	538
Total...	<u>4,750</u>

and I request that this sum may be entered in the Government office in the budget for 1860-61.

5. Captain Hitchens reports that the iron work will be executed on contract by Mr. Faulkner and the remainder by his own department.

No. 77. ORDER THEREON, 18th January 1860, No. 124.

Paragraph 1. With this letter the Chief Engineer submits, with reference to the orders noted in the margin,* a plan and estimate amounting to Rupees 13,720 prepared by the Civil Architect for substituting wrought iron girders for the three masonry arches of Saint Mary's bridge to afford space for the free passage of boats. Colonel Bell sends up also another estimate of his own amounting to Rupees 4,750 for iron girders for the centre arch only. He does not think it necessary to remove the side arches, but proposes to bind the piers to the abutments by iron ties in order to secure them against the thrust of the side arches.

2. It is indispensably necessary to make more room under the centre of the bridge to prevent the navigation being obstructed, and the mode proposed by Colonel Bell for effecting that object is at once complete and economical.

3. The Governor in Council accordingly sanctions the Chief Engineer's estimate of Rupees 4,750 with the exception of the item of Rupees 538 included in it for establishment. Not only that amount is excessive, but it appears to the Government that the fixed establishment of the Civil Architect ought to be quite well able to superintend this work. Sanction for that item therefore is withheld; but the Chief Engineer will be at liberty to bring the subject again before Government if he is of opinion that the charge is unavoidable. He will be expected to state fully the grounds of that opinion.

4. The work, as now sanctioned, will be entered in the budget of 1860-61 in the Government office.

(Signed) T. PYCROFT,
Chief Secretary.

Central Office P.W. x 3
Port Saint George
From 29 December 1859
The Chief Engineer
To The Secretary to Government
P.W.
Sir.

Public

With reference to the orders
of Government noted in the margin
I have the honor to submit herewith
a Plan and Estimate, received from
the Civil Architect and prepared

by that Officer in communication
with Mr. Faulkner, for raising the
Centre Arch of Saint Mary's Bridge.

Incl- 5-
1 Letter from Civil
Architect No 1032
1 Incl- of 2^d Decr
1859 with 1 Plan
+ 2 Also Estimates

2. The Estimate submitted
by Captain Fitchens and corrected in
this Office to Rupees 13,720 provides for
improving the three arches of which
sum Rupees 11,850 is for stonework
and Superintendence to be executed
by Mr. Faulkner on Contract, which
latter it is observed is charged at a
high rate.

Am den

3

Under the instructions of the Honorable the Governor the middle arch of the Bridge has been removed and will be shortly replaced by a temporary platform of choil wood-beams. The masonry has been found so much stronger than was expected that I no longer consider it necessary to remove the side arches but propose to bind the piers to the abutments by iron ties and thus to secure them against the thrust of the side arches.

4.

I have accordingly caused a revised Estimate for iron girders to the middle bay only as follows -

For masonry work.	Rs 542----
Spon work complete	3,670 ----
Establishment &c	538 ----
<u>Total Rs</u>	<u>4,750 ----</u>

and I request that this sum may be entered in the Government Office in the Budget for 1860-61-

Captain

5

Captain Pritchard reports that the iron work will be executed on contract by Mr Faulkner and the remainder by his own Department.

I have the honor to be
Sir

Your most obedt Servt

J. H. St. Cole

Chief Engineer

Let masonry

and outside clasp of netting

Port of Genl.

29 Decr 1859

[Faint handwritten notes and signatures, including "The only" and "The work"]

for forming surface

Carried Over 390

Public (roads).

Abstract of Estimate No.

(New Work) of 1859/60

Road No.

District: Madras.

Work. Substituting wrought Iron Rinders for the Centre arch in lieu of masonry to the St. Mary's Bridge.

Quantities	Description of Work.	Rate		Amount.	Amount for each part.
		Rs	As	Rupies	Rupies.
2293	Cubic feet Brickwork in Chumnam — per cubic foot.	2	3	323	
	Constructing 4 Pedestals with side Pilasters including blocking course in masonry and Plastering &c complete as per Plan over the bridge between the ornamental railing each —	8	8	34	
	10 Corbels each in masonry and Plastering inclusive of Curbs as per Plan underneath the Rinders — each	1	8	15	
38 1/4	Cubic feet Cordon work in Chumnam per foot	3		1	
6	Squares Plastering with 2 Coats Chumnam &c	1	13	9	11
1	Square Flooring with brick on edge in Chumnam for forming surface				
Carried Over.					390

19th Dec. 1859/60 No. 36. 23rd Dec. 1859 No. 117/118

W. H. P. 1859. 1859/60. 23rd Dec. 1859 No. 117/118

W. H. P. 1859. 1859/60. 23rd Dec. 1859 No. 117/118

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W. H. P. 1859. 1859/60. 23rd Dec. 1859 No. 117/118

W. H. P. 1859. 1859/60. 23rd Dec. 1859 No. 117/118

It was indispensably necessary to ~~the~~ make more room under the centre of the bridge to prevent the navigation being obstructed, and the mode of effecting it proposed by Colonel Wall is at once complete and economical.

W. H. P.

W. H. P.

W. H. P.

W. H. P.

W. H. P.

Quantities C. yards.	Description of Work.	Rate	Amount	Amount for each part.
		No. 20	Refuse	Refuse
	Brought over		396	
	drain to the sides of the railing for carry- ing rain water over the bridge—four square	.6		.6
30 1/2	curb foot filling with concrete composed of brick jelly sand and Chumaw and well beaten down with water between the spandrels over the iron chocking joints only hire for cutting and removing part of the old masonry of the bridge—	1.3	24	
			25	
9	Square. Laying the road with 2 1/2 inch stone jelly in clay and gravel of broken thick and well beaten down with water and stirred over with four square four square—	2.10	24	
			169	
	Brought over			

Quantities	Description of Work	Rate	Amount	Amount for each part
C. Yards	Brought Over		469	
6 Cut Granite stones each	for Curb underneath the Girders— each	2. 8. .	15	
4 Cut Granite stones each	for Curb and Pedestals underneath the Girders dressed with grooves— each	3. 8. .	14	
4 Cut Granite stones each	underneath the pedestals dressed with Grooves— each	1. . .	4	
4 Cut Granite stones each	within the Pedestals	2. 8. .	10	
	Minor Charges and scaffolding &c		30	
	Iron Work complete—			542
	Establishment &c			3670
				538
	Total Expenses—			4750

Central Office of N.W.
Fort George
29. December 1859

W. L. Bell S^t. Colonel
Chief Engineer D. V. W.

Enclosure
In a letter

From
The Chief Engineer D.P.W.
To The Secretary to Govt. D.P.W.

Date 29 } Decr 1889
Recd.

PR 3397/57

No 8450

Abstract Estimate
for substituting wrought-
iron rivets for the Centre
Arches in view of Masonry
to the St. Mary's Bridge
at Madras amounting
to Rs 4750-0-0

Notes on the Minute.

It is not so much the actual
amount of money involved
in the work in question, that
appears to me to call for con-
sideration, as it is the serious irregu-
larities that have been
committed in respect to this
& numerous other works
that without the sanction of
Government have been com-
menced & to be executed
under the sole order of the
President, as to render it im-
possible for the Government

Under the restriction no new work
whatever can be commenced before
orders are received on the Budget
unless

when they were before
2. Made of money, to put a
stop to the institution of
2. Extraordinary embassies
& pecuniary loss to the
State -

The cost of these works, with
the exception of the present
one, which is to be entered
in the Budget for 1860/61 -
has been, or is to be defray-
ed from the sum set aside
in the Budget for the wages
& expenses of the Civil Archi-
tect. - A Mode of

Arch in the
to the St. Paul

Review the Minute.

13
dealing with the Budget
money, which I need hardly
point out is irregular &
must prove a very elaborate
stat to the principle on which
the Budget system has been
introduced -

Nothing can be more explicit
than the rules laid down in
the orders of the Board dated

May 31st in the 30th of May 1856 in respect
of the whole system of Budgets -
one of the most general maxims
of which is that no money

under the restriction no new work
whatever can be commenced before
orders are received on the Budget

mentioned in the Budget of the
Year 1866 & sent the works
not entered in that Budget

The Government have however under rules IV & V of the Budget rules permitted more given to them to work on ~~these~~ works which do not exceed 10,000 rupees. To meet this a special sum of one lakh of rupees has been allotted -

The Court of Directors in their
 No 116 despatch of the 20th Sept 1854
 has also granted permission
 to the local Government

x 15

To your Memoirs may now
be put forth public work
without the previous sanc-
tion of the Supreme or Execu-
tive authorities - to the extent
~~of \$25,000~~ of 25,000
dollars - which sum is to
be obtained from the all-
greatest resources of the State.
This permission is clearly
in violation of the Budget
Fund, & could only be acted
upon under some strong &
pressing emergency.

It follows that frequently
under the restriction no new work
can be commenced before

that with the exception
of the above two expenditures
the Government cannot
spend money on works
in which they have not
official sanction &
which are not directly
interested in the Budget
passed by the Supreme
Government in ex-
ecution -

Under such circumstances
it becomes in my
opinion quite impos-

Arch in
to the ill
at Maori
to Papua

Notes on the Minute.

17
for the Government
on acceptance of the
to sanction, as they have
lately done, the approp-
riation of the Budget
funds, in a manner
that it can hardly be
alleged they have any
legal authority for
doing -

To prevent the possi-
bility of these irregularities
under the restriction no new work
shall be commenced before
orders are received on the Budget
unless

Notes on the Minute.

Paras 2 and 3

This is the object of the Budget system, but after the recent restrictions, works not entered in that document have been allowed ^{both} by this Government and by the Government of India (an order of the latter is put up) to be executed on the condition that the limit assigned for the year's outlay in the Budget is not exceeded.

From Govt of India
12 Dec 1892

Para 4

This provision is for works not entered in the Budget but which may come up afterwards with the necessity of execution before next day. The Government can also under Rule VIII sanction emergent works at any time reporting the same to the Government of India.

Para 5

No work can be commenced before 1st May unless emergent; this is the ordinary rule; but now under the restriction no new work whatever can be commenced before orders are received on the Budget unless

Arks in
to the ill
at Maon
to Pupa

to create the possibility
of misapprehension
hereafter arising in re
gard to financial pro
ceedings. I have deemed
it right to ~~state~~
make these ~~points~~
clear.

10 Jan 1893

unless made a special exemption.

The permission to sanction ^{End of Para}
5
works up to 25,000 is not disrespectful
of the Budget. All works above and
below that amount go into the
Budget and the only difference is
that when they are above 25,000 we
ask for sanction and when below
we do not.

The only exception other Para 5
than that alluded to in para 4,
are the emergent works

N^o 124

Proceedings of the Madras Government
Under date the 18th January 160.

Read the following
letter from the Chief
Engineer.

Submits Plan and estimate
amounting to Rs 13720 received
from the Civil architect for
improving ^{the structure of} Mary's bridge &
also an estimate amount-
ing to Rs 1750 prepared in
this Office for altering the
centre arch alone & requests
that this latter sum may
be entered in the Budget of
1860/61.

(Here enter 29th Dec 1859
N^o 8750)

* 24th Sept 1859 No 2110 para 4.
5th Dec " 2134

LG

see separate
minutes

will
E.M.

With this letter
the Chief Engineer submits,
with reference to the orders noted
in the margin, a plan and es-
timate amounting to Rs 13720
prepared by the Civil Ar-
chitect for substituting
wrought iron girders for the
masonry arches of St Mary's
bridge to afford space for
the free passage of boats.

Col Bell sends up also
another estimate of the cost.

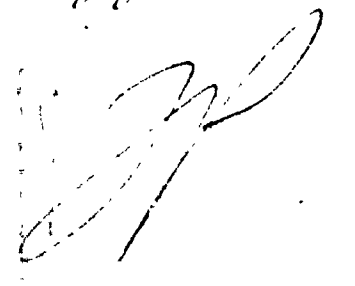
amounting to Rs 4750 for iron girders for the centre arch only. He does not think it necessary to remove the side arches, but proposes to bind the piers to the abutments by iron ties in order to secure them against the thrust of the side arches.

2. It is indispensably necessary to make more room under the centre of the bridge to prevent the navigation being obstructed, and the mode proposed by Col Bell for effecting that object is at once complete and economical.

3. The Govt in Council accordingly sanctions the Chief Engineer's estimate of Rs 4750 with the exception of the item of Rs 638 included in it for establishment. Not only that amount is excessive, but it appears to the Govt that the fixed establishment

of the Civil Architect ought to be quite well able to superintend this work, & answer for that item; therefore is withheld, but the Chief Eng^r will be at liberty to bring the subject again before Govt if he is of opinion that the charge is unavoidable. He will be expected to state fully the grounds of that opinion.

4. The work, as now sanctioned, will be entered in the Budget of 1864 in the Govt office.



Copy to the Chief Engineer, Dated 14th Feb 1864

401-9th September/57 N^o 34-35
- 2-9-117-118.
- 13

Public Works 1860 Despatch
Pro. of Govt. 20th January

c 12/24.

Pro. of the Madras Govt.
Of 18th January/60.

From Chief Eng^r 28/11th Feb/60 (N^o 388.
(Altering the centre arch of St. Mary's Bridge)

Sanctioning, for entry
in the budget of 1860-61 an
estimate for substituting iron
girders for the centre, masonry
arch of St. Mary's Bridge.

10/6 & 7/7

6th June 1861