

(1) Number of pages _____

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	3062-63	Press
B.P. No.		Mis.
Dated	27-10-	195

Not to be folded or roughly handled

PUBLIC WORKS DEPARTMENT,
OOTACAMUND, 27th October 1874.

No. 595.

No. 3,063.

FROM

COLONEL 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, No. 87.

SIR,—Adverting to paragraph 3 of
your letter No. 1,554 R, dated 9th July
1874, and in continuation of the papers

which accompanied docket No. 2,467, dated 1st September 1874, I am directed to forward herewith a revised estimate of the cost of the new bridge over the Cheyaur river on the North-West Line of the Madras Railway, amounting to Rupees 6,81,550-8-0, or Rupees 1,62,519 in excess of the original estimate sanctioned by the Government of India in their letter No. 2,432 R, dated 8th December 1871. Of this excess it is explained that Rupees 1,46,223 are due to extra cost of cylinders and to sinking and filling with concrete a greater length than that previously allowed. The present estimate does not include the value of girders and materials, which will be obtained from the old bridge, nor the cost of levelling rock at the bottom of the cylinders by means of the pneumatic apparatus which it is intended to employ. As soon as data are available for estimating the cost of this operation a final estimate of the cost of the work will be submitted.

2. Meanwhile the work is progressing on the understanding that the revised estimate now submitted shall not be exceeded. I am to request confirmation to this proceeding.

3. It will be observed that one-sixth of the expenditure is being charged to Capital under the authority conveyed in your letter No. 505 A.—G. R., dated 14th October 1873, and that it is proposed to transfer a sum of Rupees 10,000 from the allotment for the Poiney bridge to meet the current year's capital outlay.

I have the honor to be,

Sir,
Your most obedient servant,

Colonel, R.E.,
Secretary to Government.

Ed. S. T. Austin.

Spare Copies

which

Railway Department:

CONSULTING ENGINEER'S OFFICE.

No. 610

From *Lieut. W. H. Coaker R.E.*
~~Lieut. Colonel J. H. M. Shaw Stewart, R.E.,~~

My Consulting Engineer for Railways,
To. *in charge*

Colonel G. W. Walker, R.E.,

Secretary to Government,

Public Works Department.

Fort Saint George.

SIR,

With reference to the
Proceedings of Government
under date 1st September, 1874,
N^o 2466, I have the honour
to submit a revised section of
the bed of the Cheyar river,
together with an estimate of the
cost of the new bridge framed
on the borings lately made.

Rs 6,81,550.8.0

2 The amount of this
estimate exceeds that of the
original by Rupees 1,62,319, of
which

which a sum of Rupees 1,46,223 is due to the extra cost of cylinders, and to the expenditure incurred in sinking and filling with concrete the length now found necessary in excess of that at first allowed.

The cost of the cylinders per lineal foot, calculated on the actual prices of deliveries, is Rs 71.8.0 as compared with Rs 56 and the extra length of cylinder required is 102.2 lineal feet.

Indents have already been sent home for 800 lineal feet, and the Acting Chief Engineer defers sending a requisition for the remainder, as he anticipates an excess at the Huggri bridge. It will be observed that the maximum depth reached below river

(3)
bed is 93.16 feet as compared with 68.3 feet.

3 If to the present estimate be added the cost of the girders and material which will be obtained from the old bridge, and a deduction made on account of the approaches, the total cost of the bridge as now being erected will be about Rs 8,00,000, or at the rate of Rs 248 per lineal foot. This is, however, exclusive of the cost of levelling the rock at the bottoms of the cylinders, to form an even bed, by means of the pneumatic apparatus, which will probably be at some what expensive price of work. In my letter dated 9 June,

1874, No 342, I reported that
the Agent had recommended
that one man only should be
sent out with the apparatus but
Sir John Hawkshaw considered
that not less than two would
suffice. These men have now
arrived, and the apparatus is
expected within a week or so.

Some correspondence
has taken place between the
Acting Chief Engineer and the
Board of Directors regarding
the extent to which it will be
necessary to employ the pneumatic
apparatus. Mr. Goring was of
opinion that considering the great
depths to which the cylinders are
sunk in piers 24 to 45 and that
these rest for the most part

Pro. of Govt
29 June '74
No 1744.

on Kinker or morumbod, which
probably overlies the rock, but
into which the cylinders can be
bedded with a level seat by
means of the excavators in use,
it would only be necessary to
employ the apparatus in the
remaining piers 14 to 23, which
are shallow, and rest on the
rock surface. I learn,
however that Sir John Hawkshaw
still considers that it will be
necessary to use the pneumatic
apparatus in all the piers.
No estimate can at
present be formed of the cost
which this part of the work
will entail, but as soon as
reliable data are available
a final estimate will be
forwarded

forwarded for sanction. In the meantime, in order to prevent delay in the execution of the work, I have communicated authority for the bridge being proceeded with up to the amount of the revised estimate now submitted, and I beg that the confirmation of the Government of India to this proceeding may be obtained.

One sixth part of the cost of the new bridge is being charged to Capital in accordance with the Order of Government dated 12th November 1873, No 2750, and it is proposed to deduct Rs 10,000 from the allotment for the Poiney

(5)
Poiney bridge in Schedule A of the Budget estimate for 1874-75 to meet the Capital expenditure for the current official year.

I have the honour to be,

Sir,

Your most Obedt. Servant,

W. C. C.

Sir R. C.

Madras
8th October
1874.
R. C. C.

Dy. Secy. Engrs for Railways.
in charge

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One sixth part of the cost of the new bridge is being charged to Capital in accordance with the Order of Government dated 12th Novem. ber 1873, No. 2750, and it is proposed to deduct Rs 10,000 from the allotment for the Poiney

(5)
Poiney bridge in Schedule A of the Budget estimate for 1874-75 to meet the Capital expenditure for the current official year.

I have the honour to be,
Sir,

Your most Obedt. Servant,

W. C. C.

W. C. C.

Dy. Secy. Engrs for Railways.
in charge

Madras
8th October
1874.
Ex. Secy.

forwarded for sanction. In the meantime, in order to prevent delay in the execution of the work, I have communicated authority for the bridge being proceeded with up to the amount of the revised estimate now submitted, and I beg that the confirmation of the Government of India to this proceeding may be obtained.

One sixth part of the cost of the new bridge is being charged to Capital in accordance with the Order of Government dated 12th November 1873, No. 2750, and it is proposed to deduct Rs 10,000 from the allotment for the Poiney

(5)
Poiney bridge in Schedule A of the Budget estimate for 1874-'75 to meet the Capital expenditure for the current official year.

I have the honour to be,
Sir,

Your most Obedt. Servant,

W. C. C.

Lieut R. C.

Madras
8th October
1874.
R. C. C.

Dy. Secy. Engrs for Railways
in charge

Mr. The Madras Govt.

Read the following:-

From the Dy. Commr. } (N. E. No. 610 of 8 Oct 1874)
for Rys. in charge }

30/12

Ordered that the revised estimate of amounting to Rs. 68,550-8-2 for the construction of a new bridge over the Jeyar River be forwarded to the Govt. of India pending submission of the final estimate, which should clearly show the aggregate expenditure on the work including the value of all materials from

M. M.

P. M. 1874 Madras
M. G. S. 1874

RAILWAY DEPARTMENT.

From
The Consulting Engineer
for Railway
in charge

To
The Secretary to Government,
P. W. Department,
Fort Saint George.

Dated 8 October 1874
Recd. 93

Env. 4. No. 610

Submitted as No. 1000
order of the
Board of the
Railways, together with
the estimate of the
cost of the new bridge
forwarded on the bridge
to be made.

No. 3062-3063
27-10-74

A

the old bridge which are
utilized on the new
structure.

H. E. D. 3663 dated

40
So. Can. Eng. for Ry.
I. Caput dis. 11/11/76.

The Secy. to the Govt.
of India, S. M. O.

Adverting to para 3
of your letter No. 1554 R
dated 9 July 1874, and
in continuation of
the papers which ac-
companied Docket
No. 2464, dated 1 Sept 74,
I am directed to forward
herewith a revised
estimate of the cost
of the new Bridge over
the Cheyair River

on the North West line
of the head and Railway,
amounting to Rupees
6,81,500. 8. 0 or Rupees
6,23,19, in excess
of the original estimate.
The estimate sanctioned
by the Govt. of India
in their letter No. 2482 R
dated 8 December 1871.
Of this excess it is
explained that Rs.
1,46,293 are due to
extra cost of Cylinders
and to riveting and
filling with concrete
a greater length than
that previously allowed.
The present estimate
does not include the
value of girders and

materials which will be obtained from the old bridge nor the cost of leveling rock at the bottom of the cylinders by means of the pneumatic apparatus which it is intended to employ. As soon as data are available for estimating the cost of this operation a final estimate of the cost of the work will be submitted.

Meanwhile the work is progressing on the understanding that the revised estimate

now submitted shall not be exceeded. I am to request confirmation to this proceeding.

It will be observed that one-sixth of the expenditure is being charged to capital under the authority conveyed in your letter No. 503 A.P.R. dated 14. October 1873, and that it is proposed to transfer a sum of Rs 10,000 from the allotment for the Poing Bridge to meet the current year's Capital outlay.

C.M.W.

26
b-4. Copies of previous
Proceedings with 4 Encls:
despt. 1/11/74.

6341

Govt. of 1874 Madras.

PUBLIC WORKS.

To the Consulting Engineer for
Railways &

To the Secretary to the Govt of
India

Dated

Recd.

Encl.

G. O. 27th Nov. No. 3062
3063

Nos. 593-594, 595

Bridges over the Cheyann
River - Madras Pz.

The revised Estimate
of No. 681550-8-... for the
construction of a new
Bridges over the Cheyann
River ordered to be for-
warded to the Secy of India
with the ~~estimate~~ ~~estimate~~ ~~estimate~~

Forwarding a revised
Estimate of the cost of the
new Bridge over the
Cheyann River on the
North West line of the
Madr. Pz. amounting
to Rs. 681550-8-0 &
requesting confirmation
to the orders authorizing
the continuance of the
work -

593-595

6/14/10/14 15/10/14

On 6341
Govt. of 1874 Madras.
PUBLIC WORKS.

To the Consulting Engineer for
Railways &

To the Secretary to the Govt of
India

Dated

Recd.

Encl.

G. O. No. 27 Oct. 3062
3063

Nos. 593-594-595

Bridge over the Cheyann
River - Madras Pz.

The revised Estimate
of No. 681550-8-... for the
construction of a new
Bridge over the Cheyann
River ordered to be for-
warded to the Secy of India
with ~~the following~~ ~~the following~~

Forwarding a revised
Estimate of the cost of the
new Bridge over the
Cheyann River on the
North West line of the
Madras Pz. amounting
to Rs. 681550-8-0 &
requesting confirmation
to the orders authorizing
the continuance of the
work -

593-595

On 14/10/74 Ad 15/10/74