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Govt. of Madras.

PUBLIC WORKS.

Supplementary Estimate

23. Comm.

Dated

1862

G. O. No. 1862

Nov 1/11-1862

Lock Supplemental estimate
of Rs 3000 for the lock and
construction at Soggerallu at
the head of the Commanam
Channel in the Madras Dy,
sometimes with remarks

12

*Proceedings of the Madras Government, Public Works Department,
18th December 1868.*

No. 441. Read the following Endorsement of the Chief Engineer for Irrigation, dated Fort St. George, 24th November 1868, No. 99:—

Read the following letter from the Superintending Engineer, 2nd Division, to the Chief Engineer for Irrigation; dated Bezoarah, 18th November 1868, No. 115.

1 Comparative Statement.

1. I have the honor to forward a Comparative statement of the estimated amount and probable actual cost of the Doogeralla new lock, from which you will observe that there is likely to be an excess over estimate of Rupees 3,000, or about ten per cent. The principal items of increase are cut-stone masonry and baling. You will observe that on the former item there is both a considerable excess in quantity and in the rate. Mr. Carew explains that much more stone-work has been done than originally contemplated, the wing walls not having been carried out as shown in the plan, and the counterforts having been built of cut stone, as well as the insides of the culverts, for some distance. The excess in the rate is caused by the exceeding hardness of the red stone used, and the difficulty of cutting it. I am personally aware that it is the most difficult stone to deal with in the district, and in my opinion should not be used again, although the work produced is very handsome.

2. There has been a large decrease in the rubble masonry, partly by taking from it $194\frac{3}{4}$ yards, which has been charged to the cut stone alluded to above, and partly by the omission of two front counterforts, and the reduction in length of the wing wall on the west side by fourteen feet.

3. The cost of baling has been excessive. The soil was sand, underlying the black silt stratum which covers the Delta; the filtration of water was, therefore, more abundant than usual, and eight archimedean screws were kept employed by day and night for months together.

4. The work, as far as completed, is a very handsome strong piece of masonry. If it has cost somewhat more than originally expected, not only the obstructions above enumerated should be remembered, but what great drawbacks have occurred from continued changes of Executive Officers, Lieutenant Vibart, Lieutenant Smith, Mr. Peters, and Mr. Carew having all been at different times in charge. I therefore respectfully beg to recommend the revised estimate, viz., Rupees 33,570, for the favorable sanction of Government, in lieu of that of Rupees 30,570, sanctioned in G. O., No. 1,870, dated 22nd June 1867.

1. The original estimate for a lock at Doogeralla, at the head of the Comma-moor channel, amounted to Rupees 27,800. A revised estimate for Rupees 30,570 was submitted by the Superintending Engineer, 2nd Division, in June 1867, and sanctioned by Government in Government Order, No. 1,870, dated 22nd June 1867.

2. It now appears that the estimate will be exceeded by 3,000 Rupees. The excess is due chiefly to the cut-stone work and baling, the amount under these heads being respectively Rupees 1,429 and Rupees 1,244, while the excess under various other heads is only 327. I consider the Superintending Engineer's explanation of the increased cost of baling satisfactory, and that the amount of Rs. 327 may also be admitted; but as regards the excess under "Cut stone," I would beg

Edmund

to point out that it has been caused by the Executive Officer carrying out a larger quantity, and a better class of work than had been provided for in the estimate, and that he has in consequence laid himself open to censure.

3. The rates allowed in the estimate are quite sufficient for the construction of durable and substantial masonry; and I am of opinion that any extra outlay on locks and other masonry works on canals, for the sake of merely improving their appearance, should be discouraged.

(Signed) J. C. ANDERSON, Colonel, R. E.,
Chief Engineer for Irrigation.

No. 442. ORDER THEREON, 18th December 1868, No. 3,555.

IRRIGATION, No. 19.

1. Under the explanation afforded in these papers, the Government sanction the supplemental estimate of Rs. 3,550 for the Lock under construction at Doogeralla at the head of the Commamoor channel in the Kistna District, and they concur with the Chief Engineer for Irrigation in considering that it is inexpedient to incur extra outlay in giving an appearance of finish to works of the nature of those in the Deltas where stability and usefulness are alone necessary to be aimed at.

2. The total estimated cost of the work will now stand at Rupees 33,570.
(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 2nd Division.
.. Controller of Public Works Accounts.
.. Accountant General.
.. Chief Engineer for Irrigation.

Cont. of 1863 Madras.

PUBLIC WORKS

THE SUPERINTENDING ENGINEER

Dated December 1867

And

To the Government

DECEMBER

No 441-442

Estimate of Rs 3,000 for the Lock and construction of Doogerailla at the head of the Commamoor channel, in the Kottas District, sanctioned with remarks.

N^o 99.

98

The original estimate for a Lock at Doogerailla at the head of the Commamoor Channel amounted to Rs 27,800. A revised estimate for Rs 30,570 was submitted by the Superintending Engineer 2nd Division in June 1867, and sanctioned by Government in Government Order N^o 4870 dated 22nd June 1867.

2. It now appears that the estimate will be exceeded by 3000 Rupees. The excess is due chiefly to the cut stone work, and baling, the amount under these ^{heads} being respectively Rs 1429. and 1244 Rs. while the excess under various other heads is only 327. I consider the Superintending Engineer's explanation of the increased cost of baling satisfactory, and that the amount of Rs 327 may also be admitted; but as regards the excess under "cut stone", I would beg to point out that it has been caused by the Executive Officer carrying out a larger quantity, and a better class of work, than had been provided for in the estimate.

estimate, and that he has in consequence
laid himself open to censure.

The rates allowed in the estimate
are quite sufficient for the construction of durable
and substantial masonry, and I am of opinion
that any extravagance on Locks and other
masonry works on Canals, for the sake of merely
improving their appearance should be discouraged.

Fort St George
24th November 1868
To Mr Andrew Colville, R.E.
Chief Engineer for Irrigation

The Secretary to Government

Public Works Department

Sup. Eng. Office
Hesperal
18 Nov 1868

10115

From Lieutenant Colonel G. V. Minscom R.E.,
Superintendent Engineer, D.D.
To Colonel J. C. Anderson R.E.,
Chief Engineer for Migration
Macao.

Sir
I have the honor to forward
a Comparative statement of the Estimated
Amount and probable actual Cost
of the Coppercolok New Lock, from
which you will observe that there is
likely to be an excess over Estimate of
Rs. 3000 or about 10 percent. The
principal items of increase are in
stone masonry and boling. You will
observe that on the former item there is
both a considerable excess in quantity
and in the rate. Mr. Carew explains
that much more stone work has been
done than originally contemplated, the
wing walls not having been carried out
as shown in the plan of the Counterforts

Enclosure
Comparative
Statement

Received
18 Nov 1868

The Chief Engineer
for Migration

The Secretary
to Govt. M.A.

Dated 24th Nov 1868

N. 99.

Enclosure 2

Remarks on the
estimate of the
Lock, 2nd Division

18 Nov 1868

1265 June 1868-1869

Having been built of cut stone as well as the inside of the culvert for some distance, the excess in the rate is caused by the exceeding hardness of the Red stone used & the difficulty of cutting it. I am personally aware that it is the most difficult stone to deal with in the District and in my opinion, should not be used again. Although the work produced is very handsome.

2. There has been a large decrease in the rubble masonry, partly by taking from it $19\frac{1}{4}$ yds which has been changed to the cut stone alluded to above and partly by the omission of 2 foot counterforts and the reduction in length of the wing wall on the west side by 14 ft.

3. The cost of baling has been excessive. The soil was sand, underlying the black silt stratum which covers the gulla. The filtration of water was therefore more abundant than usual and 8 are linedum screws were the best

employed by day and night for months together.

4. The work as far as completed is a very handsome strong piece of masonry. If it has cost somewhat more than originally expected, not only the obstructions above enumerated, I should be reminded, but what great drawbacks have occurred from continued change of Executive Officers, viz. Mr. Dikart, Mr. Smith, Mr. Paton, & Mr. Adams having all been at different times in charge. I therefore respectfully beg to recommend the revised estimate of Rs. 30570 for the favorable sanction of Government in lieu of that of Rs. 30570 sanctioned in G. O. No. 1070. Date 22nd June 1867.

I have the honor to be
Your most obedt.
servt.
Geo. T. Minsola
Supt. Engineer

Wage to be same Total Steamers to send Increase Decrease
 & as the Consuelo of the
 previous Season -

Enclosure

[Signature]

Prof. Inoue

Signed R. Clarke
 Alexander Simpson Kirkland

Admitted by
Kirkman

Communicable ¹⁸⁴⁴ P.C.
Sept. 19. 1844. P.M.

Pub. Works Dept.
No. 3955

Proceedings of the Madras Government
dated the 18th Decr 1898
Read the following

from the Chief Engr for

Irrigation - (P.R. 199 of 24th Nov 98)

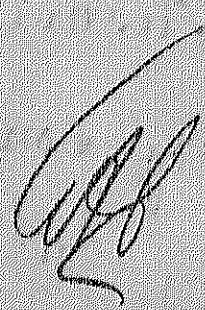
Under the explanation
afforded in these
papers the Government
sanction the supplement-
al estimate of Rs.
3,000 for the lock under
construction at Doogalla
at the head of the
Commonoor channel
in the Tuticorin District
and they concur with
the Chief Engineer for
Irrigation in considering

See Volume in letter
No. 115 of 18th Decr 98
from Chief Engineer
to Secy to Govt
the Engineer for
Irrigation

1898. 12. 18. 1898. 12. 18. 1898.

that it is inexpedient
to incur extra outlay
in giving an appear-
ance of finish to
works of the nature
of those in the Delta
where stability and
usefulness are alone
necessary to be aimed
at.

2. The total estimated
cost of the work will
now stand at Rs 33,570.



S. Engr and
Controller
Accts Genl
Chief Engr for

1900

understand that the
work is to be done
in a regular manner
and that the work
is to be done in a
regular manner

Cue 4597

Govt of 1868: Madras.

PUBLIC WORKS

29th Sept 1868
Superintendent of Works.

Lt. Col. S. S. S. S.

Dated

Recd

G. O. No. 1000, dated 29th Sept 1868

No. 111-1112

Locks Supplemental estimate
of Rs 3000 for the lock works
Construction at Soryerally at
the head of the Communion
Channel in the Pocher Dy,
sometimes with revision has