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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.		Press.
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Dated	13.8.1877	197 .

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

3rd August 1877, No. 213 L.

Irrigation
Account.

Read the following paper —

No. 6. Endorsement of the Chief Engineer for Irrigation, dated 20th July 1877, No. 114 L.

From Major J. O. HASTED, R.E., Superintending Engineer, Kistna, to the Chief Engineer for Irrigation, dated Masulipatam, 9th July 1877, No. 62.

I HAVE the honor to forward, herewith, a revised estimate and comparative statement for constructing the Inampudi under tunnel, Masulipatam Canal, sanctioned in G.O., No. 1,496, dated 31st May 1875.

1 Revised estimate, amounting to Rs. 22,100.
1 Comparative Statement showing increase of Rupees 3,100 over original estimate.
Return requested when sanctioned.

2. The excess above estimate amounts to Rupees 3,100, and this, as will be seen, has been caused almost entirely by the substitution, for rough stone in chunam, face-dressed, or cut stone. This misconception of design occurred when I was absent from the district, and, though the appearance, and possibly, stability of the work has been improved thereby, I do not think I should have permitted it had I been on the spot. The work was at first in charge of Lieutenant D. McNeil Campbell, R.E., and then of Mr. W. R. Norris and Mr. deWinton, Assistant Engineer, who had then lately joined the department, was stationed on the work during the greater part of the time it was under construction, and there is no doubt that it was carefully carried out, and as the cost was within the estimated rates with slight exceptions; an honest desire to improve the appearance the work probably with the hope of improving it without extra cost by saving on other items has led to the excess.

3. Concrete work was exceeded by Rupees 127-13-2. The excavation was muddy and a layer of broken stone was rammed in before the concrete was commenced. I think this was done by my order, as I saw the concrete commenced.

4. Archwork is exceeded by Rupees 245-11-3. The rise of the arches was increased, and the bricks had to be brought from a considerable distance, owing to the difficulty of getting good bricks at the intended spot.

5. The only other items of excess requiring notice are those of earthwork. The first of these exceeding by Rupees 316-43 is due to insufficient provision in the estimate. Some considerable banks had to be removed, and the side slopes of the excavation had not been provided for, there was considerable slipping and the slopes had to be cut back; the other item, Rupees 136-14-6, would not have been chargeable to the tunnel had the estimate for improving the drainage channel below been sanctioned at the same time. It was necessary, however, to cut out a clear waterway below the tunnel, and therefore the work was undertaken.

SUBMITTED to Government.

2. The explanation of the causes of excess on the Inampudi under tunnel or aqueduct on the Masulipatam canal in accepted with regard to all the items

except the substitution of cut-stone work for rubble masonry to a large extent and without proper authority. That the alteration has involved an unnecessary expenditure is clear, and it is not at all satisfactory to find that so serious an irregularity should have been committed.

3. The extra expense due to the change is Rupees 2,503-11-10 out of the total excess of Rupees 3,190, which latter sum amounts to 16-31 per cent. on the estimate.

(Signed) G. T. WALCH.

Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

Ny. 7. ORDER THEREON, 3rd August 1877, No. 213 I.

The comparative statement submitted shows that the Inampudi under tunnel on the Masulipatam canal has cost Rupees 22,100 against a sanction of Rupees 19,000, the excess being Rupees 3,100, or 16-31 per cent.

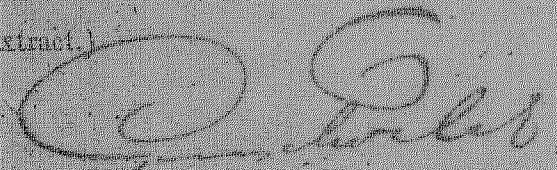
His Grace the Governor in Council notices with dissatisfaction that about three-fourths of the excess is due to the substitution of cut stone for rubble masonry, an unauthorized change, for which Lieutenant D. McN. Campbell and Mr. W. H. Norris, the Executive Engineers successively in charge, are reported to be responsible.

The Chief Engineer, Public Works Department, will note the irregular proceedings of these officers.

2. The Examiner of Public Works Accounts is authorized to pass the expenditure.

3. This sanction has been registered as No. 112 I. of 1877-78.

(True Extract.)



G. T. Walch, D.E.,

Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, Kistna.
" Collector of Kistna.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Board of Revenue.
" Revenue Department.
" Chief Engineer, Public Works Department.

W. J. A. Gumbert

7 5140 Copies

Revenue Department
No 3662

IRRIGATION
ACCOUNT.

Code of 1877 Madrid.

PUBLIC WORKS.

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TO THE SUPERINTENDING ENGINEER.

RENTAL.

For the year 1877.

Date August 2nd.

1877

Per *B. August* End.

A. G. Secretary of 1877, No. 2131

AUGUST

No. 67.

Intendant of the Canal on the Madrid Canal, Extra Director. Authorized with
remains the Examiner to pass the extra
expenditure incurred in constructing the ---.

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Lodged

14. Aug 77