M.R.O. 1—77,006—8-6-37.

(1) Number of pages 7

(2) Date of repair 22-11-63

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 2132 Press / Mis.

9-10

Dated 1 7 1869.

Not to be folded or roughly handled

estimate, would be the difference between Rupees 27,430 and Rupees 31,000, or Rupees 6,570. This excess is due chiefly to the great price of Portland cement, which has to be brought from Bombay at a very heavy expense, and which has entirely falsified my previous rates. Some waste also of this expensive material takes place in consequence of the native bricklayers being unused to work it. (I may mention, however, that the European bricklayers, procured from the Regiments in Cantonment, were even worse in this respect than the Natives, more especially the plaster done by the Natives was much superior to that of the Europeans.)

5. The Contractor, whose tender I now submit, is an energetic man, and has already repaired that portion of the Royal Horse Artillery cistern, which I report upon in this letter. As both he and his work-people have gained some experience by this work, I beg to submit my opinion that it would probably be cheaper and safer for the Government to accept his tender, than to call for others. I may add that the work will certainly be carried out more expeditiously.

No. 10. ORDER THEREON, 1st July 1869, No. 2,132

MILITARY WORKS, No. 1.

THE Government are glad to observe that the repairs which have been carried out to the southern half of the Royal Horse Artillery cistern connected with the Ulsoor Water Works have proved successful in stopping further leakage, and they approve of the Superintending Engineer's proceedings authorizing the acceptance of a tender* which has been made for completing the repairs to the cistern in question as well as to that at the Race Course and to the filters at the rock.

* Rupees 34,000 including outlay already incurred.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 5th Division.
" Controller of Public Works Accounts.
" Accountant-General.
" Military Department.

Exd. S. T. Augustin.

No. 188.

Executive Engineer's Office,
Bangalore, 10th May 1869.

From

The Executive Engineer,
Bangalore.

To,

The Superintending Engineer,
5th Division.

Sir,

Enclosures 3.
1. Tender
2 Specifications

I have the honor to report that in reference to G.O. No. 132, dated 18th January last, I have completed the additions and repairs to the Southern half of the Royal Horse Artillery Cistern [Ulsoor Water works]. I commenced pumping water into the cistern on the morning of the 6th current, and it was filled by noon on the 7th. The repairs seem to be satisfactory, as there are no indications of leakage.

I therefore request authority to proceed with the repairs to the filters and the remaining portion of the above named cistern, as well as those required for the cistern at the Race Course Barracks. I beg to submit a tender for executing the whole of these works amounting to Rupees 34,000 and recommend its acceptance.

The amount previously estimated by me, in my letter printed in Proceedings of Government of 16th January last, was Rupees 25,800/- shewing an increase of Rupees 8,200/- in the present tender. This increase is due, partly to my having under calculated the quantities; in my original estimate, I calculated the Royal Horse Artillery Cistern, the Race Course Barrack cistern, and the two Filters to contain 306½ Squares, whereas it should have been 326 Squares.

You will notice I have not included the Royal Artillery Barracks cistern among those due now repaired; the reason is, that, at no distant period, the battery occupying those buildings will be removed to the Race Course Barracks, and there does not seem a probability of their being again occupied. Eliminating this from my previous estimate, the amount necessary to repair the cisterns should have been 326 Squares, at 80 Rupees per square, or Rupees 26,080/-. I also omitted to include the removal and rebuilding of the masonry inlet channel to the Filters, which would cost about

Rupees 350/-; this item would increase my original estimate to Rupees 26,400/-.

Again, in consequence of adding a foot to the thickness of the floors, and a nine inch lining to the enclosing walls of the cisterns, I have thought right to add 18 inches to the present height of the cistern walls so that the capacity of the cisterns should be kept, as nearly as possible, the same as before: this addition [according to the rates mentioned in my previous estimate] would cost Rupees 1000/-, so that the actual excess of the present tender, over my previous estimate, would be the difference between Rupees 27,430/- and Rupees 34,000/-, or Rupees 6,570/-. This excess is due chiefly to the great price of Portland cement, which has to be brought from Bombay, at a very heavy expense, and which has entirely falsified my previous rates. Some waste also of this expensive material takes place, in consequence of the native bricklayers being unused to work it. [I may mention however that the European bricklayers, procured from the regiments in cantonment, were even worse in this respect than the natives, more especially the plaster done by

the natives was much superior to that of the Europeans J.

The Contractor, whose tender I now submit, is an energetic man, and has already repaired that portion of the Royal Horse Artillery cistern, which I report upon in this letter. As both he and his work-people have gained some experience by this work, I beg to submit my opinion that it would probably be cheaper and safer for the Government to accept his tender, than to call for others. I may add that the work will certainly be carried out more expeditiously.

I have &c &c
[Signed] H. W. Wood Captain
Executive Engineer, Bangalore.

[True Copy]

E A Ford Colonel R.E.
Superintg: Engineer, 5th Divn.

No 54.

Supg. Engrs. Office, 5th Dn,
Camp Akkur, 14th June 1869.

From
The Superintending Engineer,
5th Division.

To
The Secretary to Government
P. W. D.

Sir,

1 Enclosure.
Letter.

I have the honor to forward a letter from the Executive Engineer of Bangalore, reporting that the repairs, sanctioned in G. O. of the 16th of January No. 132, have been successfully carried out, to one half of the Royal Horse Artillery cistern, connected with the Ulsoor Water Works. Captain Wood also forwards a tender for repairing and strengthening the remaining half of the cistern, the Race Course cistern and the fillers at the rock, for the sum of 34,000 rupees, including the work already done. This sum exceeds the estimated cost of the repairs by Rs. 8200 and the excess is due, principally, to

the great cost of the Portland cement that is being used, and for which no substitute can be found on the spot.

2. To prevent delay, I at once, authorized the acceptance of the tender, subject to any orders that Government may pass, & with the proviso that, if any cheaper cement or less quantity of material is used, a proportionate reduction is to be made in the payment for the work. Since the tender was made, I observe that Portland cement can be obtained at Madras, and its cost should therefore be considerably less.

I have the honor to be
sir,
Your most obdt. servant

E A Ward Colonel R.E.,
Superintg. Engineer.

P.W. 1269 Desp.
From Supt. Engr. 5th Division
To Secy. to Govt. P.W.
Dated 14th
Recd 16th & 23rd June 69
No. 54
Enclosure 1.

Reporting that one half of the Royal Horse Artillery Cistern has been successfully repaired & tender for rest of work has been accepted

No. 2132 - 1st July 69.

No. 9

C. 19th June 1869 A. 21st

authorizing the ac-

Public Works Department

No. 2137

Proceedings of the Madras Government

Under date the 1st July 1869

Read the following

From The Supg Engineer
5th Division } W.E. No. 54 of 14th June 1869

The Government are glad to observe that the repairs which have been carried out to the Southern half of the Royal Horse Artillery Cistern connected with the Ulsoor Water Works have proved successful in stopping further leakage, and they approve of the Supg Engineers proceedings authorizing the ac-

acceptance of a tender which has been made for completing the repairs to the cistern in question as well as to that at the Race Course and to the filters at the rock.

Rs: 34,000 including outlay already incurred.

40/5

The Superintending Engineer
Controller of Public Works
Accts Genl.
Mily Deptt.
Dated 2/7/19.

Rec 2535

Govt. of {1869} Madras.

PUBLIC WORKS.

To The Superintending Engr.
5th Division

Dated

Recd. Encl. 1

G. O. 1st July 1869, No. 2132

Nos. 9 - 10

Ulsoor Water Works Papers
relative to the letter from the
Supg Engr of the 5th Div relative
to the Repair of the Royal Horse
Artillery Cistern connected with
the Ulsoor Water Works as well
as of that on the Race Course at
Bangalore and to the fillers at
the Locks.

Copies 2/7/69.