(1) பக்கங்களின் எண்ணிக்கை 24

(2) புதுக்கித் திருப்பிய நாள் 12/91

(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

நிர்வாகச் சீர்திருத்தத் துறை

அரசாணை எண். / மு. கோப்புத் தாள் எண்.	2766-W.	அச்சகம் பலவகை

நாள் : 31-10-1893 199

மடிக்கவோ கண்டபடி கையாளவோ கூடாது.

ஆவண. கா. 1—18,006—6-9-90.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 6th August 1893, No. 424 M.D.

I have the honour to submit, for the sanction of Government, the undermentioned revised estimates for the two bridges over the Suruliyár river in the Madura division :—

	Rs.
1. Bridge at Virapandi	40,600
2. Do. at Uttamapálaiyam	42,800

2. In G.O., No. 135 W., of the 16th January 1891, estimates of Rs. 31,900 for the first and Rs. 36,840 for the second were sanctioned, and the excesses over these estimates are due, in both cases, to the increase in rates and to the extension of the wings by 8 feet.

3. *Rates.*—The necessity for the increase in rates for work in the Cumbum valley has been recognized by former Superintending Engineers ; and considering that all skilled labour has to be imported from Madura, Trichinopoly and Tanjore, I agree with their opinions. The data now submitted will also bear out the necessity for the rates allowed in the present estimates.

4. *Extension of wings.*—The length of the wings has been increased by 8 feet as the river is very rapid and there will be a tendency to scour the approaches. The soil at the slope originally adopted would not stand the current and would have had to be revetted.

5. The progress of the two works has not been very satisfactory owing to the failure of the contractors and also to the difficulties experienced by them. The original contract for the Uttamapálaiyam bridge has been already cancelled under the authority conveyed in your No. 5314 C. of the 15th December 1892. The contractor for the other bridge having, in spite of repeated warnings, failed to complete the work according to the terms of his agreement or to make satisfactory progress, I have, on the strong recommendation of the Executive Engineer, ordered his accounts also to be closed. Fresh contracts for the two works will be submitted, if necessary, on receipt of certain information from the Executive Engineer.

From A. H. GARRETT, Esq., Executive Engineer, Madura division, to the Superintending Engineer, VI Circle, dated 10th October 1893, No. 441 S.E.

Referring to your No. 601 of 22nd September 1893, I have the honour to inform you that the only other large work in the Cumbum valley suitable for comparison with the bridges at Virapandi and Uttamapálaiyam is the Koravanuth bridge, about 10 miles from Uttamapálaiyam. This bridge has 3 spans 40 feet each and was built in 1890.

2. I enclose a statement giving the estimated and actual rates paid at the Koravanuth bridge for certain descriptions of work and also the corresponding rates allowed in the revised estimates for the Virapandi and Uttamapáliayam bridges.

3. You will observe that the rate paid for the dressed facing stones used for Koravanuth bridge was Rs. 66-6-6 per 100 cubic feet. These stones have a chisel draft round the edges, the bed joints are horizontal and the side joints vertical. All the stones in each course are of the same thickness. Omitting the chisel draft, the work is almost exactly the same as the work for which a rate of Rs. 37 has been allowed in the revised estimate for the Virapandi bridge and Rs. 30 in the original and revised estimates for the Uttamapálaiyam bridge.

For hammer dressed rubble in surki mortar, the estimated and actual rates at the Koravanuth bridge were Rs. 18 and Rs. 22-1-8 respectively. In the revised estimate for the Uttamapálaiyam bridge, Rs. 20 has been allowed for this description of work and Rs. 26 in the revised estimate for the bridge at Virapandi. The higher rate at Virapandi is on account of the distance stones had to be carted.

For brick arch work the rate allowed in the revised estimates for the Suruliyár bridges exceeds the rate paid at the Koravanuth bridge by Rs. 6-6-0. The cost of firewood, however, was far higher than at Koravanuth. The bricks at Virapandi and Uttamapálaiyam cost over Rs. 13 per 1,000, which is the same as had to be paid for table-moulded bricks at the Vaigai bridge in Madura.

For cutstone the rate allowed in the revised estimates is Rs. 1-8-0 per cubic foot, which is 4 annas a cubic foot more than was paid at Koravanuth. This rate may appear high; but the stone is very difficult to work, and I do not consider the rate an extravagant one.

4. The Chief Engineer has observed that the data submitted with the revised estimates are worthless. The data were prepared by Mr. Hughes and accepted with the original estimates. I have only altered the cost of the cartage where the distances were incorrect and slightly raised the wages of work people.

5. I regret that the reports accompanying the revised estimates were so worded as to convey the impression that I had sanctioned the increased rates. Work has only been paid for at sanctioned rates, but the contractors and piece-workers have been promised the revised rates if they are sanctioned, and probably would not have gone on with the work unless they thought they had a good chance of being paid at the revised rates.

6. When I cancelled the contract for the Virapandi bridge, I ordered the work to be carried out by departmental agency. This was done for 8 days when the subdivision officer found it was costing more than was allowed in the revised estimate, and accordingly the work is now being continued by piece-workers.

7. At Virapandi there will not be much work to be paid for at revised rates if they are sanctioned, as the late contractor who nearly completed the work has forfeited all claims to be paid the higher rates by his failure to complete the work within the time allowed.

8. I beg to state, in conclusion, that, considering the style of the work, the rates are not at all out of the way. Both bridges have been very well built and remarks to this effect have been made by both the Chief and Superintending Engineers. I may also add that for the Chattraputty anicut and head sluice near the Virapandi bridge a rate of Rs. 30 for coursed rubble has recently been passed by the Superintending Engineer.

No. 666 M.D.

Copy submitted to the Chief Engineer, Public Works Department, with reference to his No. 866 D., dated 18th September 1893.

2. The revised plans and estimates for the Virapandi and Uttamapálaiyam bridges across the Suruliyár in Madura are resubmitted for early sanction under the circumstances stated by the Executive Engineer.

3. The chief items of excess in the revised estimates are fully explained by the Executive Engineer, and the necessity for high rates for works in the Cumbum valley has been admitted by former Superintending Engineers.

Trichinopoly,
13th October 1893.

(Signed) W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, VI Circle.

Order—dated 31st October 1893, No. 2766 W., Public Works.

The revised estimates, amounting respectively to Rs. 40,600 and Rs. 42,800, for the construction of masonry bridges over the Suruliyár river at Virapandi and Uttamapálaiyam on the road from Periyakulam to Cumbum in the Madura district are sanctioned in supersession of the estimates of Rs. 31,900 and Rs. 36,840 sanctioned in G.O., No. 135 W., dated 16th January 1891.

2. In the current year's budget a sum of Rs. 8,827 has been provided for the first mentioned work and Rs. 5,905 for the second, these sums representing the unspent balances of the original estimates. The Superintending Engineer will apply later in the year for any additional allotment that may be required.

3. The sanction accorded in paragraph 1 has been registered as Provincial Nos. 103 W. and 104 W. of 1893-94 and classified as Communications, Original Works.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, VI Circle,
with plans and estimates.
" Examiner, Public Works Accounts.
" Local and Municipal Department.
Editors' Table.

Md. C. A. Munisawmy.
Spare Copies

B... GS AND ROADS.
...VIL WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated October, 31*st.*

Recd. *Encl.*

G.O., 31st Oct. 1893, No. 2766 W.

OCTOBER.

Bridges

Revised estimates of Rs. 40,600 and Rs. 42,800 respectively for the construction of masonry — over the Suruliyár river at Virapandi and Uttamapálaiyam on the road from Periyakulam to Cumbum in Madura district, sanctioned with remarks.

Ramnad 3/2766

Please return
Rec file Connected
with this

Cr
20/4

Submitted
Returned. Please
called for the
query Cr

4/2766

2766 W

Current 8783

Revised estimate for constructing bridges over the Durnaliyar river at Veerapondy and Uthamapolliem, Madura Dist.

Sir,

Kindly refer to the current correspondence for orders, as there is nothing for me to check, more over Memo No. 866 W dated 18th Sept 1893 is not available.

The estimates have examined & sent up herewith on the 1st Sept last, some objection must have been raised with regard to high ratio provided for which the SE now submits an explanation.

18.X.93

CAW

Forwarded, for consideration & orders with the Govt Sanction

DW
C.E.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

No. 424 md.

Trichinopoly, 6th August 1898.

From Major W. L. P. Hadsley, R.E.,
The Superintending Engineer,
6th CIRCLE.

To
The Chief Engineer,
PUBLIC WORKS DEPARTMENT.

SIR,

ENCLOSURES. 13.

I have the honor to submit, for the sanction of Government, the undermentioned revised estimates for the two bridges over the Suruliyar river in the Madura District:—

1. Bridge at Vaigaipatti - Rs 40,600.
2. Do at Ettikamapalayam - 42,800.

2. In G. O. No. 135 W of the 16th January 1895, estimates of Rs 24,990 for the first and Rs 36,200 for the second were sanctioned, and the excess over these estimates are due, in both cases, to the increase in rates and to the extension of the wings by 8 feet.

Rates. 3. The necessity for the increase in rates for works in the Cumbum Valley has been recognized by former Superintending Engineers and

conceding that all skilled labour has to be imported from Kalawa, Kuchinoor and Sanjore, I agree with their opinions. The data now submitted will also bear out the necessity for the rates allowed in the present estimates.

4. The length of the wings has been increased by 8 ft as the river is very rapid and there will be a tendency to scour the approaches. The rail at the slope originally adopted would not stand the current and would have had to be revetted.

Extension of Wings

5. The progress of the two works has not been very satisfactory owing to the failure of the Contractors, and also to the difficulties experienced by them. The original Contract for the Ettamanalayam bridge has been already cancelled under the Authority conveyed in your No. 5314 C of the 15th December 1892. The Contractor for the other bridge having, in spite of repeated warnings, failed to complete the work according to the terms of his agreement or to make satisfactory progress, I have, on the strong recommendation of the Exc: Engineer, ordered his accounts also to be closed. Fresh contracts for the two works will be submitted, if necessary, on receipt of certain information from the Executive Engineer.

I have the honor to be

Sir,

Your most obdt servt

Lieut Baddeley Major, R.E.,

for Secy Engineer, & Q. Circle.

6/2266

Secundrabad.

VB cards per packet.

Vencumpondu Bridge

1 Orgl Estte with Specification
1 " plans of bridge on tracing
1 Sheet of Survey & Level Sections of the Site
1 " of Ll & Orgl Sections at site on tracing
1 Revised plans of bridge on tracing
1 Revd. Estimate with report & data
1 Comparative Statement

Ettamanalayam Bridge

1 Orgl Estimate with Specification
1 Revised " with report & data
1 Comparative Statement
1 Revised plans of bridge on tracing
2 Sheets of Ll & Orgl Sections of approaches

VB

No. 6912

P. W. D. 6TH CIRCLE.

From

The Superintending Engineer,

6th Circle.

To

THE CHIEF ENGINEER,

PUBLIC WORKS DEPARTMENT.

No. 424 md

Dated 6 August 1893

Received 8

Enclosures. ~~13~~ 23

(7 klams)

Submits for sanction revised estimates for the two bridges over the Vaigai river at Veerapandi & Vathanapalayam - Madura Dn

No. 2519 e 24.5.87
" 3402 e 26.7.87
" 2929 e 8.7.90
" 3211 e 31.7.90
" 3828 e 20.9.90
" 136 w 16.1.91
" 1062 e 7.4.91
" 3023 e 22.6.91
" 3776 e 29.8.91
" 595 D 25.4.92
" 4875 e 22.11.92
" 5314 e 15.12.92
" 5476 e 24.12.92

No. 268

From A. T. Garrett, Esquire,
Executive Engineer, Madura Dn, to the
Superintending Engineer, VI Circle,
No. 441 S.E. dated 10 October 1893:—

Enclosures:—14

Referring to your No. 601 of 22nd September 1893, I have the honor to inform you that the only other large work in the Kumburu valley suitable for comparison with the Bridges at Veerapandy and Vathanapalayam is the Koravanuth Bridge, about 10 miles from Vathanapalayam. This bridge has 3 spans 40 feet each, and was built in 1890.

2. I enclose a statement giving the estimated and actual rates paid at the Koravanuth bridge for certain description of work, and also the corresponding rates allowed in the revised estimates for the Veerapandy and Vathanapollium Bridges.

3. You will observe that the rate paid for the Dressed Facing Stones used for the Koravanuth Bridge was Rs 66-6-6 per 100 cubic feet. These stones [illegible] chisel draft round the edges, joints are horizontal and the side

side joints vertical. All the stones in each course are of the same thickness. Omitting the chisel draft the work is almost exactly the same as the work for which a rate of Rs 37 has been allowed in the revised estimate for the Veerapandy bridge, and Rs 30 in the original and revised estimates for the Vattanapallium Bridge.

For Hammer Dressed Rubble in Surki mortar the estimated and actual rates at the Koravanutti Bridge were Rs 18-a-a & Rs 22-1-8 respectively. In the revised estimate for the Vattanapallium bridge Rs 20 has been allowed for this description of work and Rs 26 in the revised estimate for the bridge at Veerapandy. The higher rate at Veerapandy is on account of the distance stones had to be carted.

For brick arch work the rate allowed in the revised estimates for the Surukiyan Bridges exceeds the rate paid at the Koravanutti Bridge by Rs 6/6. The cost of firewood however was [illegible] than at Koravanutti. The

P4

8/
2766

Veerapandy and Vattampallium Coir over Rs 13 per 1000 which is the same as had to be paid for table moulded bricks at the Vaigay Bridge in Madura.

For cutstone the rate allowed in the revised estimates is 1/8 per cubic foot which is 4 annas a cubic foot more than was paid at Koravanutti. This rate may appear high, but the stone is very difficult to work and I do not consider the rate an extravagant one.

4. The Chief Engineer has observed that the data submitted with the revised estimates are worthless. The data were prepared by Mr. Hughes and accepted with the original estimates. I have only altered the cost of the cartage where the distances were incorrect & slightly raised the wages of work people.

5. I regret that the report accompanying the revised estimates were so worded as to convey the impression that I had sanctioned the increased rates.

Work

Work has only been paid for at sanctioned rates, but the contractors and piece workers have been promised the revised rates if they are sanctioned, and probably would not have gone on with the work unless they thought they had a good chance of being paid at the revised rates.

6. When I cancelled the Contract for the Veerapandy Bridge I ordered the work to be carried on by departmental agency. This was done for 8 days when the Sub. Division Officer found it was costing more than was allowed in the revised estimate, and accordingly the work is now being continued by piece workers.

7. At Veerapandy there will not be much work to be paid for at revised rates if they are sanctioned, as the late contractor who nearly completed the work has forfeited all claims to be paid the higher rates by his failure to complete the work within the time allowed.

8. I beg to state in conclusion that considering the style of the work, the rates are not at all out of the way. Both bridges have been very well built & have been very favourable remarks to this effect have been made by both the Chief and Superintending Engineer. I may also add that for the Chattrapatty anicut and Head Sluice near the Veerapandy Bridge a rate of Rs 30 for Coursed rubble has recently been passed by the Superintending Engineer.

—

No: 666 MD.

Copy submitted to the Chief Engineer, D. P. W., with reference to his No: 866 D dated 18th September 1893.

2. The revised plans and estimates for the Veerapandy and Vellamapalliam bridges across the Surutiyar

Enclosures: 14.

1. Statement comparing rates.
2. Original Estimates.
2. Revised Estimates with report, data &c.
2. Comparative Statements.
2. Revised plans of bridges.
1. original plans of bridges.
1. Sheet of Survey.
3. Sheets of Longitudinal & Cross sections.

* sent as separate 2 per packet.

Surabhyar in Madura are resubmitted for early sanction under the circumstances stated by the Executive Engineer.

3. The chief items of excess in the revised estimates are fully explained by the Executive Engineer, and the necessity for high rates for works in the Cumbum valley has been admitted by former Superintending Engineers.

H. C. Baddeley
Major R.E.,
Superintending Engineer

II Circle

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Trichinopoly
13 October 1893. 3
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Ad

CURRENT No. 8783

D. P. W. VI. Circle

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2) 276

From

The Superintending Engineer
III Circle

To.

The Chief Engineer
D. P. W.

Rc: 666 md

Dated 13
Despd 14 } October 1893.
Recd 17

Enclosures: — ~~14~~ 24
(7 Plans)

Bridges at Veerapondy and Kattamapolliem over the Suruliyar in Madura — Resubmitting for sanction the revised estimates for the — with explanation for the increased rates allowed therein.

Rec 17-x-93

Off. 361
23/10

Public Works Department.

No 2766 W dy 31 October 1893.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Proc. from the S. E. VI Circle Rc: 424 md dy 6 Augt. 1893
— 666 md — 13 Octr. "
— do —

P 7

The revised estimates, amounting respectively to Rs. 40,600 and Rs. 42,800, for the Construction of masonry bridges over the Suruliyar river at Virapandi and Kattamapalaiyam on the road from Periyakulam to Cumbum in the Madura district are sanctioned in supersession of the estimates of Rs. 31,900 and Rs. 36,840 sanctioned in G. O. No: 135 W dy 16 January 1891.

2. In the current year's budget, a sum of Rs. 8827 has been provided for the first mentioned work and

(40—2,000—13-5-93.)

and Rs. 5905 for the second
these sums representing
the unspent balances of the
original estimates. The
Supdg. Engineer will apply
later in the year for any
additional allotment that
may be required.

3. The sanction recorded
in para 1 has been registered
as Provincial Nos. 1034W
and 1044W of 1893-94 and
classified as Communi-
cations, Original Works.

Revised estimate for
Bridges at Krupa
and Kittampalayam
Madura Dt.

Secy
to Govt

AH
28.10

No
Bgrs

The
Six proposals to plan this
two on the Estate Table

W 7/11

To the S.E. VII Circle ✓
with plan & estimate
(24)
- Exam P.W. Secy.
- Local and Municipal Dept.
- Estate Table

Cir
Hmz 7-10.
A 31-10

1893.

Public W[illegible] Department.

No. 2766W

Dated October 31, 1893

Despatched

Received

P.C. 1.81

SUBJECT.

Bridges

Revised estimates of Rs 40 600 & Rs 42800 for the construction of masonry — over the Suruliyar river at Viraputti and Uttamapalayam on the road from Periakulam to Cumbum in Madura DT sanctioned with remarks

90/6/90

90—2000-2-5-93.