(1) Number of [illegible]

(2) Date of appeal [illegible]

(3) Initials of the Reviewer [illegible]

MADRAS RECORD OFFICE.

Government of Madras.

[illegible] DEPARTMENT.

G.O. No. [illegible]	Press Mis.
[illegible]	102-03
Dated [illegible]	18[illegible]

14/15

Not to be folded or roughly handled

Local Funds—Roads.

No. 102. Read the following Proceedings of the Board of Revenue, dated 25th June 1875, No. 1763:—

Read the following letter from H. S. THOMAS, Esq., President of the Local Fund Boards, Tanjore District, to Major J. O. HASTED, R.E., Officiating Chief Engineer, Public Works Department, dated Vallam, 7th May 1875, No. 319:—

UNDER G.O., dated 8th July 1874, No. 1,136, communicated in Board's Proceedings, dated 1st August 1874, No. 2,046, I have the honor to submit for your approval a revised plan and estimate, amounting to Rupees 10,200, for the construction of the bridge across the Cauvery on Road No. 81, in the Tirumangalakudi limits, forwarded by the Superintending Engineer.

2. This plan and estimate is intended to supersede the one for Rupees 7,800 sanctioned in G.O.,* dated 24th August 1874, No. 1,416, and the reasons for revising the estimate have been fully explained in the Superintending Engineer's letter, of which copy is enclosed.

* Communicated in Board's Proceedings, dated 8th Sept. 1874, Miscellaneous No. 6,189.

3. The Local Fund Board of the Tanjore Circle have passed the revised estimate† subject to your approval. In case of your approving the estimate I beg the favor of your sending it on to the Board of Revenue for submission to Government.

† Copy of Resolution enclosed.

4. Rupees 5,800 have been provided for the work in question in the budget of the current year.

ENCLOSURE No. 1.

From Lieutenant-Colonel R. A. ROBERTS, R.E., Superintending Engineer, Tanjore, to H. S. THOMAS, Esq., President of the Local Fund Boards, Tanjore District, dated 23rd March 1875, No. 3,412.

I HAVE the honor to submit for sanction a revised plan and estimate of Rupees 10,200 for the bridge proposed to be constructed across the Cauvery on Road No. 81 from Terupanandal to Tennalore in the Combaconum Taluq.

1 Revised plan.
1 Abstract estimate, Rupees 10,200.
1 Comparative Statement.
1 Specification.
1 Site Plan.

2. The estimate of Rupees 7,800 for a bridge at this spot was sanctioned in G.O., No. 1,416, dated 4th August 1874, Financial Department. But as the experience of the recent floods in this district would tend to show that the water-way provided in the sanctioned design is insufficient for the requirements of the river, I have had prepared the accompanying plan, which provides suitably, as it appears to me, for all that is required in this connection.

3. It is true that the floods this year were unusually high, but I do not think it safe to risk the stability of a bridge on the chance that it may be many years before we have such another flood, or on the possibility that, even with such a flood a bridge constructed with insufficient water-way as per sanctioned design might not be injured.

4. On these considerations I recommend the sanction of the revised estimate of Rs. 10,200, or Rupees 2,400 in excess of the sanctioned estimate.

5. I may mention that at the Cauvery dam at the Veerasholen head, which is six miles above the site of the proposed bridge, the highest flood discharged of the past season, an exceptionally high one as already mentioned, was about 2,000 cubic feet per second. This result was obtained from calculating from discharges actually gauged when the water was passing three feet deep over the dam, which is 140 feet in length.

6. Between the Veerasholen head and the site of the proposed bridge, the amount of water in the Cauvery itself is considerably reduced by the amount taken off in the interval, so that at the proposed site the discharge may be taken at 1,800 cubic feet per second, and by the water-way afforded by the bridge the velocity of the stream in full flood of six feet depth is calculated at about four feet per second only, a velocity which will cause no afflux and will enable the stream to pass unobstructed through the bridge.

(True Copy.)

(Signed) H. S. THOMAS,
President.

Enclosures Nos. 2 and 3.—Plans.

Enclosure No. 4.—Estimate.

Enclosure No. 5.—Comparative Statement.

Enclosure No. 6.—Specification report.

Enclosure No. 7.—Extract from Proceedings of Local Fund Board.

Forwarded to the Secretary to the Board of Revenue with remark that the revised estimate is approved.

Ootacamund,
28th May 1875.

(Signed) J. O. HASTED, Major, R.E.,
Offg. Chief Engineer.

The revised estimate, amounting to Rupees 10,200, for constructing a bridge across the Cauvery on Road No. 81 in the Tirumangalakudi limits, is submitted for the sanction of Government.

2. The present estimate, which has been approved of by the Officiating Chief Engineer, is in excess of the original one* by Rupees 2,400, and the cause of the excess is fully explained by the Superintending Engineer.

* For Rs. 7,800, sanctioned in G. O., Financial Department, dated 24th August 1874, No. 1,416.

3. The work appears as Item No. 1, with an allotment of Rupees 5,800, in Part I. of the current year's budget of the Tanjore Circle.

(True Copies and Extract.)

(Signed) H. E. STOKES,
Acting Secretary.

Proceedings of the Madras Government, Financial Department,
13th July 1875.

No. 103. Order thereon, 13th July 1875, No. 1475.

The revised estimate for Rupees 10,200 is sanctioned.

(True Extract.)

D. F. CARMICHAEL,
Officiating Chief Secretary.

To the Board of Revenue.
,, Public Works Department.
,, Accountant-General.

Exd. T. O'Connor.

Govt. of 11876] Madras.

FINANCIAL.

To The BOARD OF REVENUE,

&c. &c.

Dated July 1876.

Issued

Rcd

Sent.

C. O., 15th July 1876, No. 1876.

JULY.

Nos. 102-103.

Local Funds, Roads—Revised estimate, amounting to Rupees 10,200, for a bridge across the Cauvery on Road No. 81 in the Trunomalai taluk limits, Tanjore District, sanctioned.

Extract from the Proceedings of the Local Board of the Tanjore Circle dated 24th April 1876.

× × ×

II. Read letter from the Superintending Engineer C. & I. Branch 1876 submitting for sanction revised plan and estimate amounting to Rs 10,200 for the construction of the Bridge across the Cauvery on road No 81 in lieu of the estimate of Rs 7,800 sanctioned by Govt.

Resolved that the estimate be passed subject to the scrutiny of the Chief Engineer to whom also the former estimate was submitted.

(Signed) W. S. Thomas
President

True extract
W. Thomas.
Secretary

Rd
Comp. Dr

To the Chief Engineer

Specification Report to accompany Plan and Estimate for constructing a Bridge of 3 arches 40 feet span, across the Causeway on Road No 81 in Tiroomangalagoody limits

Amount of Estimate Rupees 10,200 —

1 The bridge to be of 3 arches, each 40 feet span with versed sine 10 feet and the intrados to be struck from 5 centres as shewn on plan. The piers to be 5'-6" thick with cutwaters attached as shewn on plan; the abutments to be 7'-6" thick.

Height from floor to springing 6 feet; other details to be as shewn by plan and estimate.

2 The foundations of the bridge to be of brick in chunam 9 feet deep; but should after reasonable attempts have been made to bale out the water in the usual country manner it be found that water is present in great quantity and that the foundations cannot in consequence be laid solid to 9 feet depth, square wells of brick in mud 4 feet deep with 5 feet solid above to be substituted.

3 The cutwaters of the piers are to be connected with each other and with the abutments, by retaining walls in front and rear built with brick in chunam 9 feet deep and 2 3/4 feet mean breadth and

and the flooring under the arches is to be of the same material 1½ feet in thickness

4 The superstructure is to be of brick in Chunam faced on the outside with table moulded bricks and as ordered the work will be either plastered or flush pointed. The arches to be 1 1½" thick at crown, with increasing thicknesses towards the haunches as shewn on the plan.

The parapets are to be 1½ feet thick of open work, and to be 3 feet in height.

The clear roadway between the parapets to be 18 feet

The spandrel spaces to be built up to the height of 4 ft in brick and chunam and the extrados to be covered with 3" concrete (5 brick jelly, 1 slaked lime) before the filling in of earth.

5 Bricks to be 9"×4½"×2½" and to be stacked at the work site and not used till passed by the Range officer.

Mortar to consist of 1 slaked lime to 2 sharp river sand, well pounded and mixed sufficient quantity of lime to be collected to last 10 days so that work may not be delayed on account of want of mortar

(Signed) A. W. Smart Lieut R.E.
Asst Engineer No 11 Range

W.C.

Supg. Engrs office
Poona 18th Nov 1874

Rice A. Rofer Lieut Col R.E.
Superintending Engineer Surveys

Ab. Thomas.
Coulehan

Enclosure in letter
from the Supt Engr
Tanjore dated Chief
Engr. D.O. No. 2037
dated 15th Nov 74.

3115
466/75

P. W. 1280/74
2

Sub Head No 3748/75

Specification (Short)
Plan & Estimate
accompanying
for constructing a
bridge across the Cauvery
on Road No. 81, from
Tirupanendal to
Tennalore
do Tel No. 1678

Tanjore District

No. 20 Combaconum Range

Combaconum Taluq

Revised abstract Estimate No. of 1874-75

Work. Constructing a Bridge across the Cauvery Road
No. 81 from Tirupanendal to Tennalore

Quantity	Description of Charges	Rate Rs.	Amount Rs.	
53394 13/32	Cub. ft. Brick in Chunam	at .. 23 cft.	7508	9 6
140	Squares of Plastering	at 2 8 .. Sqr.	350	.. ..
	Excavating and filling in		300	.. ..
	Scaffolding		100	.. ..
	Centring		200	.. ..
	Paling		350	.. ..
8789 1/6	Cub. yds of Earthwork approach and Roadway	.. 1 3 cyds	686	10 3
1/2	acre Compensation	300 .. .. acre	150	.. ..
			9645	3 8
	Shed and Sundries &c		554	12 4
	Total Estimate Rupees		10,200	.. ..

(Signed) A. W. Smart Lieut R.E.
Assistant Engineer No. II Range

D.C.
N. Minas
Pundit

Supg. Engrs office
Tanjore 18th Nov 1874

Rich. J. Nolen Lieut Col R.E.
Superintending Engineer Tanjore

Encl. to Letter

Encl. to communication from the Surveyor Inspector of Public Works Office No. 2037 dated 18th June 1914.

3115
666/75.
P.W. 7280/14
3

Encl. to P.W. 3768/15.
Revised Estimate
of Rs. 10200. for Constructing
a bridge across the
Lunawa Road No. 81
from Kompannadal
to Jinnalope

Encl. to P.W. 1613

Tanjore District

No 2 or Combaconum Range

Compass Sketch of road showing the Site of proposed Bridge across Cauvery

Scale 1/6000



A. Proposed position of Bridge
C. L. New line of Road

District Engineer's office
Tanjore 8th June 1874.

/True Copy/

/Signed/ A. W. Smart Lieut. R.E.
Asst Engineer D.P.W.

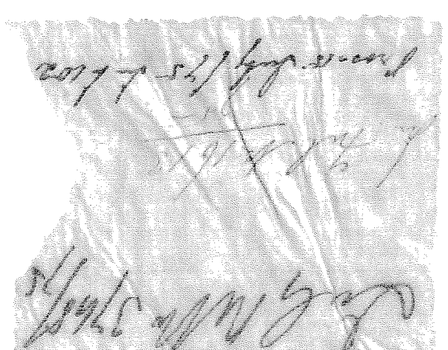
/Signd/ H. R. Mead Major R.E.
District Engineer

/Signed/ R. A. Roberts Lieut. Col. R.E.
Superintg Engineer Tanjore

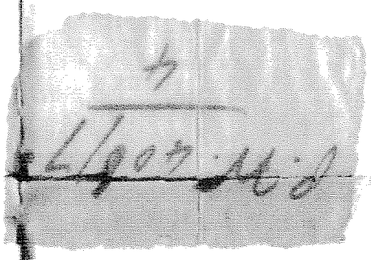
Superintending Engrs office
Camp Negapatam
18th January 1875
C. M. Mde

A.I.C.E.
Executive Engineer in Charge
Superintending Engineer's office

Resident









Tanjore District

No. 20. Combaconum Range

Comparative Statement shewing Original and Revised Estimate Cauvery Bridge Tirumangalacoody Limits Road 81.

Particulars	Original Estimate Quantity	Rate	Amount	Revised Estt Quantity	Rate	Amount	Excess Quantity	Rate	Amount	Remarks.
Foundation										
Brick in chunam	18802			26982						
Superstructure Do	20140 3/8			19236 5/16						
Arch Do	400 79/80			7176 2/32						
Total	39343 2/8		2 3 5532 11	7 53394 13/32		2 3 7508 9	5 1405 7/16		2 3 1975 14	10
Plastering	118 1/8	2 8	295 5	140	2 8	350	21 1/8	2 8	54 11	
Excavating & filling in	"	"	300	"	"	300	"	"	"	
Baling	"	"	350	"	"	350	"	"	"	
Scaffolding	"	"	100	"	"	100	"	"	"	
Centering	"	"	150	"	"	200	"	"	50	
Approaches & Roadway	7293 1/4	"	1 3 569	10 2	5789 1/2	1 3 681	11 3 1495 1/2	"	1 3 111	13 1
Compensation	1/2 more	300	" " 150	"	1/2 more	300	" " 150	"	"	"
Sundries	"	"	" 352	3 3	"	"	561	12 4	" 202	9 1
Total	"	"	" 7800	"	"	"	1020	"	" 2400	"

D. L.

Superintending Engineers Office
Lawrence 18th November 1874

Signed W. W. Smart Lieut R. E.
Assistant Engineer No 2 Range.

Rich. H. Rover Lieut Col R. E.
Superintending Engineer Tanjore

Approved

Enclosure in letter
from the Secretary of War
dated to the Chief
Engineer dated Nov 20. 2037
dated 18 Nov 37.

Fri. Eng. Letters Received

3165
4885
P. 8. 7288 1911
8

Subject No 3718 75
Comparative State-
ment showing
Original Estimate
Estimate Cannery
Bridge. Recommended
-ed. Amounts-
Roads No 814
Ex Ref A-1613 1711

Bridge proposed to be built

Across Cawery

Viroomungulagudy Limits Road 81

Scale

PLAN



Section on C D

Section on E F

H W L 1871

SECTION

SECTION ON AB

Slope 1 on 30

Floor Level 1950

Estimate probably Saved.
Material Brick in Chunam
Estimate Rupees 10200

No II Range at Trichy

Contract 13th November 1874

Drawn by C. Sashacharriar

Draughtsman No 2 Range

Superintg Engr Trichy
Tanjore 18th November 1874.

H Leggatt M.I.C.E.
Executive Engineer in charge

To accompany my letter to the Chief Engineer P.W.D. No 2067 dated 18 November 1874.

Richd H. Roberts Lieut. Col. R.E.
Superintending Engineer Tanjore

A. Turner.

Section on C D

Section on E F

H.W.L. 110.0

SECTION ON A B

To accompany my letter to the
Chief Engineer P.W.D. No. 2087
dated 18 November 1874

Lieutt Col R.E.
Superintending Engineer Tanjore

Lieut R.E.
Assistant Engineer

R.E.
Executive Engineer in charge

Schuld 3765/75

Pfb 3115/75

No. 1,763.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 25th June 1875.

Read the following letter from H. S. THOMAS, Esq., President of the Local Fund Boards, Tanjore District, to Major J. O. HASTED, R.E., Officiating Chief Engineer, Public Works Department, dated Vallam, 7th May 1875, No. 319:—

UNDER G. O., *dated 8th July 1874, No. 1,136*, communicated in Board's Proceedings, dated 1st August 1874, No. 2,046, I have the honor to submit for your approval a revised plan and estimate, amounting to Rupees 10,200, for the construction of the bridge across the Cauvery on Road No. 81, in the Tirumangalakudi limits, forwarded by the Superintending Engineer.

2. This plan and estimate is intended to supersede the one for Rupees 7,800 sanctioned in G.O.,* dated 24th August 1874, No. 1,416, and the reasons for revising the estimate have been fully explained in the Superintending Engineer's letter, of which copy is enclosed.

* Communicated in Board's Proceedings, dated 8th Sept. 1874, Miscellaneous No. 6,189.

3. The Local Fund Board of the Tanjore Circle have passed the revised estimate† subject to your approval. In case of your approving the estimate I beg the favor of your sending it on to the Board of Revenue for submission to Government.

† Copy of Resolution enclosed.

4. Rupees 5,800 have been provid for the work in question in the budget of the current year.

ENCLOSURE No. 1.

From Lieutenant-Colonel R. A. ROBERTS, R.E., Superintending Engineer, Tanjore, to H. S. THOMAS, Esq., President of the Local Fund Boards, Tanjore District, dated 23rd March 1875, No. 3,412.

I HAVE the honor to submit for sanction a revised plan and estimate of Rupees 10,200 for the bridge proposed to be constructed across the Cauvery on Road No. 81 from Terupanandal to Tennalore in the Combaconum Taluq.

1 Revised plan.
1 Abstract estimate, Rupees 10,200.
1 Comparative Statement.
1 Specification.
1 Site Plan.

2. The estimate of Rupees 7,800 for a bridge at this spot was sanctioned in G.O., No. 1,416, dated 4th August 1874, Financial Department. But as the experience of the recent floods in this district would tend to show that the water-way provided in the sanctioned design is insufficient for the requirements of the river, I have had prepared the accompanying plan, which provides suitably, as it appears to me, for all that is required in this connection.

3. It is true that the floods this year were unusually high, but I do not think it safe to risk the stability of a bridge on the chance that it may be many years before we have such another flood, or on the possibility that, even with such a flood a bridge constructed with insufficient water-way as per sanctioned design might not be injured.

4. On these considerations I recommend the sanction of the revised estimate of Rs. 10,200, or Rupees 2,400 in excess of the sanctioned estimate.

5. I may mention that at the Cauvery dam at the Veerasholen head, which is six miles above the site of the proposed bridge, the highest flood discharged of the past season, an exceptionally high one as already mentioned, was about 2,000 cubic feet per second. This result was obtained from calculating from discharges actually gauged when the water was passing three feet deep over the dam, which is 140 feet in length.

6. Between the Veerasholen head and the site of the proposed bridge, the amount of water in the Cauvery itself is considerably reduced by the amount taken off in the interval, so that at the proposed site the discharge may be taken at 1,800 cubic feet per second, and by the water-way afforded by the bridge the velocity of the stream in full flood of six feet depth is calculated at about four feet per second only, a velocity which will cause no afflux and will enable the stream to pass unobstructed through the bridge.

(True Copy.)

(Signed) H. S. THOMAS,
President.

Enclosures Nos. 2 and 3.—Plans.

Enclosure No. 4.—Estimate.

Enclosure No. 5.—Comparative Statement.

Enclosure No. 6.—Specification report.

Enclosure No. 7.—Extract from Proceedings of Local Fund Board.

Forwarded to the Secretary to the Board of Revenue with remark that the revised estimate is approved.

Ootacamund,
25th May 1875.

(Signed) J. O. HASTED, Major, R. E.,
Offg. Chief Engineer.

The revised estimate, amounting to Rupees 10,200, for constructing a bridge across the Cauvery on Road No. 81 in the Tirumangalakudi limits, is submitted for the sanction of Government.

2. The present estimate, which has been approved of by the Officiating Chief Engineer, is in excess of the original one* by Rupees 2,400, and the cause of the excess is fully explained by the Superintending Engineer.

3. The work appears as Item No. 1, with an allotment of Rupees 5,800, in Part I. of the current year's budget of the Tanjore Circle.

(True Copies and Extract.)

Acting Secretary.

* For Rs. 7,800, sanctioned in G. O., Financial Department, dated 24th August 1874, No. 1,416.

To the Officiating Chief Secretary to Government, Financial Department,
with six enclosures to be returned.

Copy to the President of the Local Fund Boards, Tanjore District.
,, to the District Engineer, Tanjore.
,, to the Controller of Public Works Accounts.

Bxd. J. Tulloch.

Recommended, 25th June 1875, No. 1,763.

Received 28 June 1875.

1875.
GOVT. OF MADRAS.

JUNE
No. 1,763.

Bridge—across the Cauvery on Road No. 81 in the Tirumangalakudi limits, Tanjore District.
—Revised estimate, amounting to Rs. 10,200, for construction of—submitted for sanction of Government.

Govt. of {1875} Madras.

Financial

G.O. 13 Fin. 1875. No. 111/75

Nos. 122-123

Local Funds Boards

Revised Estimate amounting to Rs. 10200 for a bridge across the Canary on Road No 81 in the Srimungala: Kudi Limits, Tanjore District, Executive