(1) Number of pages 32

(2) Date of repair April 88

(3) Initials of the Referencer bvg

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D DEPARTMENT

G.O. No. B.P. No.	2763 W.	Press. Mis.
Dated	17.10.1887	198 f.

Not to be folded or roughly handled

17th October 1887, No. 2763 W., Public Works.

GOVERNMENT OF MADRAS.

2763
1

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

No. 362 M.D.

Report by the Superintending Engineer, VI Circle, on the revised estimate for constructing a bridge across the Vaigai river near Madura, Rs. 3,21,460.

In G.O., No. 358 W., dated 9th February 1886, a second revised estimate, amounting to Rs. 2,46,600, was sanctioned for this work subject to certain alterations suggested by the Chief Engineer, and the work was commenced by the Local Fund Department. But after an expenditure of Rs. 35,613 (including the arrears due) by that department the work was transferred to the Public Works Department, and the work was taken over by this department in November 1886 as per G.O., No. 2281 W., dated 10th September 1886. On taking over charge of the work a further revision as regards design and rates was found necessary and the present estimate was accordingly prepared.

2. The difference between the sanctioned estimate and the revised one is Rs. 74,860, which is chiefly due on the following items :—

	RS.
1. Increase rate	21,725
2. Extra work owing to change of design	
3. Draining foundation	1,000
4. Iron railings	1,141
5. Railway sidings	5,500
6. Compensation for land	5,000
7. Tools and plant and machinery	14,188
8. Establishment	26,306
Total ...	74,860

Item No. 1—Is due mainly to the heavy rates charged by the Railway Company for carrying stones to the bridge site and to the high rate paid to the contractor both for stone and lime, as, under the agreement by the District Board, a large quantity of materials had to be accepted from the contractor. A fresh agreement is being made, by which the rates are somewhat reduced. The first of these causes is the most serious, the rate agreed upon between the District Board and the South Indian Railway being one anna per ton per mile in addition to the cost of constructing the necessary siding and branch line, which brings the total cost up to about one anna and a half per ton per mile, the ordinary rate charged by the rules of the company for stone in truck-loads being six pies per ton per mile.

The distance charged for being eight miles, the cost of carriage amounts to about Rs. 5 per hundred cubic feet (solid) of stone. It would have been infinitely cheaper to have laid down a light railway with hand-worked trucks.

The rate for brickwork has had to be considerably increased, as the material which it was originally proposed to use for bricks was utterly unsuited to the work, and some difficulty has been experienced in getting good material.

Item No. 2.—The height of the piers and abutments were reduced by 2½ feet, and rise and thickness at crown of arches increased by 1½ feet and 6 inches respectively; the spandril arches were omitted and concrete filling in spandrils substituted; the breadth of the foot-path reduced from 3 to 1½ feet; and other alterations suggested by the Chief Engineer in his note printed in G.O., No. 358 W., of 9th February 1886.

Item No. 3.—The excess is mainly due to the large amount of fuel required for the large pulsometer, which is a most extravagant machine. Arrangements are being made to replace this by centrifugal pumps.

Item No. 4—Provided for as suggested in paragraph 5 of Chief Engineer's note referred above.

Item No. 5.—This is in accordance with the agreement between the railway officials and the District Board, that the former should construct sidings at Tiruparankundrum and at the bridge for conveyance of stone, the cost of labor and earthwork being defrayed by the latter. The estimate made by the railway officials of the cost of constructing the siding has been greatly exceeded, and no explanation of the excess has been given by them.

Item No. 6.—The amount allowed in the original estimate is found insufficient, as Rs. 14,429 has already been paid, and a further sum is required to pay for the yearly rent of the land over which the siding at Tiruparankundrum is constructed, and it is therefore increased to Rs. 15,000.

Item No. 7.—Before the work was taken over by this department, a sum of Rs. 18,721 on machinery and Rs. 1,091 on tools were spent by the District Board. In addition to the amount spent on machinery, a sum at the rate of 1½ per cent. on the estimated amount is allowed to cover the cost of tools paid by District Board and any required by this department.

Item No. 8.—The excess is due to the provision made at 23 per cent. on the estimated amount.

3. With regard to centerings the design has been slightly modified so as to suit the increased rise of the arch adhering to the general arrangements originally made, as the contract for providing the timber in scantlings has already been given out, and some of it has already been sawn up. The design proposed is, in the opinion of the undersigned, rather more expensive than is necessary, but so much has been done towards preparing the timber that it is not desirable to alter it.

4. The contingencies and petty supervision were reduced to 5 per cent. on the estimate. It will be seen that the excess is almost entirely due to the action of contracts entered into by the District Board or to insufficient provision in the original estimate, both causes beyond the control of this department.

5. The estimate is recommended for sanction.

(Signed) J. PENNYCUICK, Lieut.-Col., R.E.,
Superintending Engineer, VI Circle.

Madura,
8th July 1887.

From Lieutenant-Colonel J. PENNYCUICK, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated 23rd September 1887, No. 609 M.D.

With reference to your memorandum, No. 484 D., dated 26th ultimo, I have the honor to return the revised plans and estimate of the Vaigai bridge at Madura, obtaining the countersignature of the President of the District Board.

2. I also enclose herein the proceedings of the District Board, Madura, No. 107, dated 10th September 1887.

Enclosure.

Proceedings of the District Local Board, Madura, dated 10th September 1887.

Proceedings No. 107 of 1887.

Read letter No. 525 M.D., dated 1st September 1887, from the Superintending Engineer, VI Circle, forwarding a revised estimate for Rs. 3,21,460 for constructing the bridge over the Vaigai at Madura.

Resolution.—Sanctioned; but the Board hope that this is the last estimate. They further are of opinion that at least the Madura Municipality should be called upon to pay its quota of the revised estimate as it is a municipal work in reality.

2763/2

Mis. No. 1506.

Forwarded to the Superintending Engineer, VI Circle, for information.

2. The estimate and plans are returned duly countersigned.

(Signed) E. TURNER,
President.

15th September 1887.

Note by the Chief Engineer, Public Works Department.

Recommended for sanction.

2. The revised estimate is Rs. 74,860 in excess of that sanctioned in G.O., No. 358 W., dated 9th February 1886, of which more than one-third is due to the provision of establishment charges according to the rules.

3. The original provision for tools and plant and machinery was Rs. 8,000, but the District Board had expended nearly Rs. 20,000 on this account before the work was taken over by this department. The excess on this head is Rs 14,188.

4. The agreements made by the District Board with the Railway Company for carriage of stone and with the contractors have led to considerable excesses. The carriage rate is very high in addition to cost of sidings and increased compensation for land. The agreements entered into by the Board were the subject of correspondence with the Government Solicitor, and it is hoped that it may be possible to work at lower rates in some instances.

5. In excavating foundations it was found that, owing to the soil, some of the piers had to be carried down to a greater depth than proposed. This has led to increased expenditure in masonry and also in baling.

6. The main feature in alteration of design is the increase in the rise of arches, 60 feet span, from 12 feet to 13½ feet, a decided improvement which adds comparatively little to the cost.

7. The Superintending Engineer states in his report that the foot-paths have been reduced to 1½ feet in width from 3 feet. The plan, however, still shows two paths of 3 feet in width. It is considered that one path of 3 feet would be preferable to two of 1½ feet.

(Signed) J. O. HASTED, Colonel, R.E.,
Chief Engineer, Public Works Department.

24th August 1887.

Order—dated 17th October 1887, No. 2763 W., Public Works.

The third revised estimate, amounting to Rs. 3,21,460, for constructing a bridge over the Vaigai river, near Madura, is sanctioned in supersession of the estimate of Rs. 2,46,600, sanctioned in G.O., No. 358 W., dated 9th February 1886.

2. The excess of Rs. 74,860 is explained in the papers above recorded.

3. Attention is drawn to paragraph 7 of the note by the Chief Engineer, Public Works Department.

4. This sanction has been registered as Local, No. 28 W. of 1887-88.

(True Extract.)

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

To the Superintending Engineer, VI Circle, with fifteen enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Local and Municipal Department.

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1887} Madras.
PUBLIC WORKS.

Dated October, 17th.

Recd. *Encl.*

G.O., 17th Oct. 1887, No. 2763 W.

OCTOBER.

Bridge

The third revised estimate of Rs. 3,21,460 for constructing a — over the Vaigai river near Madura, sanctioned.

Read the following papers:-

No. 362 M.D.

Madura
8th July 1887

W/11
2763/3

17th Octr/87 No 2763 W [illegible]

Report by the Superintending Engineer VI circle on the Revised Estimate for constructing a Bridge across the Vaigai River near Madura Rs. 3,21,460 -

Enclo: 8.
1. Orig. plan
1. Site plan
1. Revised plan
1 Plan of centerings.
1. Plan of culverts.
1. Revised estimate with report & specification
1 Duplicate abstract estimate.
1. Comparative Statement.
5 plans sent separately.

In G.O. No 358 W dated 9th February 188~~5~~6, a second revised Estimate amounting to Rs 2,46,600 was sanctioned for this work subject to certain alterations suggested by the Chief Engineer and the work was commenced by the Local Fund Department. But after an expenditure of Rs 35,613 (including the arrears due) by that Department the work was transferred to the P.W. Department and the work was taken over by this Department in November 1886 as per G.O. No 2281 W dated 10th September 1886. On taking over charge of the work a further revision as regards design and rates was found necessary and the present Estimate was accordingly prepared -

2. The difference between the sanctioned estimate and the revised one is Rs 74,860 which is chiefly due on the following items.

1.	Increase rate -	Rs 21,725
2.	Extra work owing to change of design	
3.	Draining foundation	" 1,000
4.	Iron Railings -	" 1,141
5.	Railway sidings -	" 5,500
6.	Compensation for land.	" 5,000
7.	Tools & Plant & Machinery -	" 14,188
8.	Establishment -	" 26,306.
	Total Rs.	74,860.

Item No. 1. is due mainly to the heavy rates charged by the Railway Company for carrying stones to the Bridge site, & to the high rate paid to the Contractor both for stone & lime as under the agreement by the District Board a large quantity of materials had to be accepted from the Contractors - A fresh agreement is being made by which the rates are somewhat reduced. The first of these causes is the most serious the rate agreed upon between the District Board and the S. I Railway being one anna per ton per mile, in addition to the cost of constructing the necessary siding and branch line which brings the total cost up to ~~nearly~~ about one anna and a half per ton per mile the ordinary rate charged by the rules of the Company for stone in truck loads being six pies per ton per mile -

The distance charged for being eight miles the cost of carriage amounts to about Rs 5 per hundred cubic feet (solid) of stone - It would have been infinitely cheaper to have laid down a light railway with hand worked trucks -

The

revision as regards design and rates was found necessary and the present Estimate was accordingly prepared -

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7.	Tools & Plant & Machinery -	" 14,188
8.	Establishment -	" 26,306.
	Total Rs.	74,860.

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The distance charged for being eight miles the cost of carriage amounts to about Rs 5 per hundred cubic feet (solid) of stone - It would have been infinitely cheaper to have laid down a light railway with hand worked trucks -

The -

The rate for brickwork has had to be considerably increased as the material which it was originally proposed to use for bricks was utterly unsuited to the work, and some difficulty has been experienced in getting good material —

Item No 2. The height of the piers & abutments were reduced by 2½ feet and rise & thickness at crown of Arches increased by 1½ ft and 6 inches respectively; the spandril arches were omitted and concrete filling in spandrils substituted; the breadth of the foot path reduced from 3 to 1½ ft; and other alterations suggested by the Chief Engineer in his note printed in G.O. No 358 W of 9th February 1886 —

Item No 3. The excess is mainly due to the large amount of fuel required for the large pulsometer, which is a most extravagant

machine. Arrangements are being made to replace this by centrifugal pumps —

Item No 4 — Provided for as suggested in para 5 of Chief Engineer's note referred above —

Item No 5. This is in accordance with the agreement between the Railway officials and the District Board that the former should construct sidings at Tiruparankundrum and at the Bridge for conveyance of stone, the cost of labor & earthwork being defrayed by the latter. The estimate made by the Railway officials of the cost of constructing the siding has been greatly exceeded, and no explanation of the excess has been given by them —

Item No 6. The amount allowed in the original Estimate is found insufficient as Rs 14,429 has already been paid and a further sum is required

required to pay for the yearly rent of the land over which the siding at Tiruparankundram is constructed and it is therefore increased to Rs 15,000 -

Item No 7. Before the work was taken over by this Department a sum of Rs 18,721 on Machinery and Rs 1091 on Tools were spent by the District Board - In addition to the amount spent on Machinery a sum at the rate of 1½ per cent on the estimated amount is allowed to cover the cost of Tools paid by District Board and any required by this Department -

Item No 8. The excess is due to the provision made at 23 per cent on the estimated amount -

3. With regard to centerings the design has been slightly modified so as to omit the increased rise of the Arch adhering to the general arrangements originally made as the contract for providing the timber in scantlings has already been given out & some of it has already been sawn up. The design proposed is in the opinion of the undersigned rather more expensive than is necessary but so much has been done towards preparing the timber that it is not desirable to alter it -

4 The Contingencies and Petty Supervision were reduced to 5 per cent on the estimate - It will be seen that the excess is almost entirely due to the action of contracts entered into by the District Board or to insufficient provision in the original estimate, both causes beyond the control of this Department -

5. The Estimate is recommended for sanction.

1/10/92

Supd. Engineer, Circle.

B. No 1462 W. 30.5.87
" 1313 W. 13.5.87
G.O. 574 W. 22.2.87
No 1188 C. 26.3.87
" 1070 C. 19.3.87
" 694 C. 28.2.87
G.O. 574 W. 22.2.87
No 294 C. 26.1.87
" 171 C. 17.1.87
B. No 31 W. 7.1.87
No 11174 C. 25.11.86
B. No 2281 W. 10.9.86
G.O. 358 W. 9.2.86
No 502 D. 6.8.86
B. No 2469 W. 23.9.86
" 2281 W. 10.9.86
" 2826 W. 27.10.86
" 3203 W. 4.12.86
No 4041 C. 17.11.86
" 554 C. 17.3.85
" 646 E. 24.9.85
B. No 958 W. 23.4.85
" 908 W. 16.4.85
" 344 W. 13.2.85
No 2251 D. 13.12.84
G.O. 828 W. 13.3.83
Revd G.O. 2357. 3.10.84.
No 553 C. 17.3.85.

a. 25.7.87.

P.W.C. No 5373

(3)

From,

The Supdt Engineer
6th Circle.

To,

The Chief Engineer
P.W.D

No 204 D/ 16 Aug 87

No 362 M.D.

Dated 8th July 1887
Rd 13.7.87
Enclos: 8 16
(+ 5 plans)

Report on the revised estimate amounting to Rs 3,21,460 for constructing a Bridge across the Vaigai River near Madura.

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p. 5

No 609 M.D.
Office of the Supdt Engineer, Circle
23rd September 1887.
D/25th

From

Lt Col J. Pennycuick R.E.
Supdt Engineer, Circle.

To,

The Chief Engineer
P.W.D.

Enclos: 7.
1 Letter
1. Distt Board Pro:
5 Plans - sent separately

Sir,

With reference to your Memo No 484 D dated 28th Ultimo, I have the honor to return the revised Plans and Estimate of the Vaigai Bridge at Madura obtaining the Countersignature of the President of the District Board -

2. I also enclose herein the ~~[illegible]~~ Proceedings of the District Board Madura No 107 dated 10th September 1887.

I have &c.

Executive Engineer
for Supdt Engineer, Circle -

Extd

P.W.C.A. No. 7534

No. 484 D. – 26-8-87
G. O. No. 358 W. 9. 2. 86.
B. No. 2281 W. – 10-9-86
" 2469 W. – 23-9-86
No. 502 D. – 6-8-86
G. O. 514 W. – 22-2-87
No. 294 C. – 26-1-87
" 171 C. – 17-1-87
B – 31 W – 7-1-87
" 4174 C – 25-11-86
B – 3203 W – 4-12-86
" 4041 C – 17-11-86
B – 2826 W – 27-10-86
B – 958 W – 23-4-85
B – 908 W – 16-4-85
" 553 C – 17-5-85
" 344 W – 13-2-85
" 2251 D – 13-12-84
G. O. 828 W – 13-3-83
No. 554 C – 17-3-85
" 646 E – 24-9-85
B – 1462 W – 30-5-87
– " 1313 W – 13-5-87
G. O. 514 W – 22-2-87
No. 1188 C – 26-3-87
" 1070 C – 19-3-87
" 694 C – 28-2-87

(8)
9

From

The Supg: Engineer
VI. Circle

To

The Chief Engineer
P. W. D.

No. 609 M.D.
Encls. 7 + 7 (+5 plans)
Dated. 23rd September /87.
R 27-9-87

Returns the revised plans & Estimate, of the Vaigai Bridge at Madura, counter-signed by the President of the District Board.

circ. 14-10-87 R. 17-10-87

Enclosure

Sp 6

Proceedings of the District Local Board, Madura.
dated 10th September 1887.

18 SEP 87

B 63/8

Proceedings No. 107 of 1887.

Read letter No. 525 M. D. dated 1st September 1887, from the Superintending Engineer, 6th Circle forwarding a revised estimate for Rs 3,21,460 for constructing the Bridge over the Vaigai at Madura.

Resolution:— Sanctioned; but the Board hope that this is the last estimate. They further are of opinion that at least the Madura Municipality should be called upon to pay its quota of the revised estimate as it is a Municipal work in reality.

(True Extract)

Dis: No: 1506 / d 15-9-87

Encl: 1, estimate & 5 plans, dist. per parcel post

Forwarded to the Superintending Engineer, 6th Circle, for information.

The estimate and plans are returned duly countersigned.

Vice President
for President

copied by

Cw. 5373.

Note by the Chief Engineer P. W. Department

Recommended for sanction

2. The revised estimate is Rs 74,860 in excess of that sanctioned in G. O. No 358 W. 9th February 1886, of which more than $\frac{1}{3}$ is due to the provision of Establishment charges according to the rules.

3. The original provision for Tools and Plant and Machinery was Rs 8000/- but the District Board had expended nearly 20,000 Rs on this account before the work was taken over by this Department. The excess on this head is Rs 14,188.

4 The agreements made by the District Board with the Railway Company for carriage of Stone and with the Contractors have led to considerable excesses. The carriage rate is very high in addition to cost of sidings

and

and increased compensation for land. The agreements entered into by the Board were the subject of correspondence with the Government solicitor, and it is hoped that it may be possible to work at lower rates in some instances.

5. In excavating foundations it was found that owing to the soil some of the piers had to be carried down to a greater depth than proposed. This has led to increased expenditure in masonry and also in baling.

6. The main feature in alteration of design is the increase in the rise of arches 60 feet span, from 12 feet to 18½ feet - a decided improvement which adds comparatively little to the cost

7. The Superintending Engineer states in his report that the footpaths have been

been reduced to 1½ feet in width from 3 feet. The plan however still shews 2 paths of 3 feet in width. It is considered that ~~a~~ one path of 3 feet would be preferable to ~~2~~ two of 1½ feet.

Foll 24/8/87

E.W.

Secy to the Chief Engr

C.S.

Recommended for Sanction.

2. The revised Estimate is Rs 74,860 in excess of that sanctioned in P.W. Res 358 W. 9th Feby 186. of which more than $\frac{1}{3}$ is due to the revision of establishment charges according to the rules

3. The original provision for Tools & Plant & Machinery was Rs 5000, but the District Board had expended nearly 20,000 Rs on this account before the work was taken over by this Dept. The excess on this head is Rs 14,188.

4. The agreements made by the Distt Board with the Railway Co for carriage of stone & with the Contractors have led to considerable excesses. The carriage rate is very high in addition to cost of sidings & increased compensation for land. The agreements entered into by the Board were the subject of correspondence with the Govt Solicitor, and it is hoped that it may be possible to work at lower rates in some instances.

5. In excavating foundations it was found that many other soil

14-10-87

Some of the piers had to be carried down to greater depth than proposed, this has led to increased expenditure in masonry & also in boring

6. The main feature in alteration of design is the increase in the rise of arches 60 feet span from 12 feet to 13½ feet, a decided improvement which adds but comparatively little to the cost.

7. The S. E. states in his report that the footpaths have been reduced to 1½ feet in width from 3 feet. The plans however still shows 2 paths of 3 feet in width. It is considered that 1 path of 3 feet would be preferable to 2 of 1½ feet.

Order
Secretary Local Govt

Jell
23/8/87.

To D.W. Cw 7531
sent to cols
27763/13 8/10/87

Please [illegible] the larger Cards are with you kindly send them down.

The previous papers are all at D.O. 5. & I propose to send for them prior to drafting & show to the revised estimate.

C.C.
8/10/87

Yes – these are [illegible] hurrying [illegible] [illegible] & the [illegible]

27/3 11 87

Public Works Department.

(8)

Current No. 7534

Letter No. 609 M.D.

Dated the 23rd September 1887

From the S.E. VI Circle

276/14

NOTE OF REMARKS.

1. The accompanying 3rd revised estimate and plans provide for constructing a bridge across the Vaigay river near Madura, at a cost of Rs 321,460 or Rs 74,860 in excess of Rs 246,600 sanctioned in G.O. No 358W of 9th February 1886.

2. The plans & estimate have already been received in this office & have been scrutinized on the 19th July 1887 when a note of remarks on the subject was submitted - these are

6.10.87. R. 11.10.87.

are now at Ooty — (Clk. 5378) Vide No. 484 D of 26th August 1887.

3. The revised plans and estimate were sent to the S.E. VI circle for obtaining the countersignature of the President of the District Board (Vide No. 484 D of 26th August/87) and are now returned countersigned.

———

30-9-87

B & Roads.

E. I. Form No. 22.

No. 276310

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 17th October 87

3263/5

READ the following :—

From the Supdg. Engr., VI Circle. Lr. No. 3622 dy 8.7.87.
" " do " " " " 6094 M.D. d 23.9.87
Note by the Chief Engr. P.W. Dept dy 24th August 1887

P.F.H. 150ft

The third revised estimate amounting to Rs 3,21,460, for constructing a bridge over the Vaigai river, near Madura, is sanctioned in supersession of the estimate of Rs 2,46,600, sanctioned in G.O. No 358 W, dated 9th February 1886.

2. The excess of Rs 74,860 is explained in the papers above recorded.

3. Attention is drawn to

to para 7 of the Note
by the Chief Engineer,
P.W. Department.

4. This sanction has
been registered as Local
No. 28 W of 1887-88.

JCU
24/8/87

H.C.
13/10

This estimate has apparently not been before the Local Board. It should in my opinion be accepted by them before it is sanctd. It is the third estimate, the first being Rs 170000 the second Rs 246600; & this the third Rs 3,21,460.

H.C.
25/8.

~~To Hon. P.P. Hutchins~~

J.
17-10

B.W.
17/10

CHIEF SECRETARY
13 OCT 87
GOVERNMENT OF MADRAS

To
The Supg. Engr. VI Circle
with 15 enclos:
" Examr. P.W. Accts with
dup: abt. estimates

Local and Municipal Dept.

Despd. 26th 10. 87

To the Chief Secretary
for favour of communicating

Sent again to Ch. Secy; the
Dist. Board having passed
the revised estimate.
12.10.87

circ: 14-10-87
R. 17-10-87

circ: 14-10-87

2763/16

8-4-09.

7534

Govt. of (1887) Madras

PUBLIC WORKS.

18/10

Dated

Recd. Encl.

G.O., 17 October 1887, No. 2763 W

Bridge

The third revised Estimate of Rs 3,21,460 for constructing a — over the Vaigai river near Madura sanctioned

60/5

18/10 18/10.