Public Works (1898) Department.

G.O., No. 1967 W

DATED 5th August '98

6/8/98

[Despatch Abstract.]

Road between Ettiyapuram & Vilathikulam

Revised Estimate of Rs 54400 for Constructing a ——— in the Tinnevelly Dt, Sanctioned with remark.

120/8

Indexed. 6/8

[P. W. 26.
1,000—12 2-98.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government {1898} of Madras.

PUBLIC WORKS.

Recd. } 1898.
Reqd. }

Enclosures

Spare copies

G.O., No. 1967 W., 5th August 1898.

AUGUST.

Road between Ettiyapuram and Vilattikulam

Revised estimate of Rs. 54,400 for constructing a — in the Tinnevelly district, sanctioned with remark.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following paper:—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Camp Melur, 8th July 1898, No. 522 T.N.

I have the honour to submit, for sanction of Government, plans and a revised estimate amounting to Rs. 54,400, together with comparative statements, for the construction of a road, including masonry works, between Ettiyapuram and Viláttikulam in the Ottappidáram taluk, Tinnevelly district. The estimate is submitted in supersession of that for Rs. 53,200 sanctioned in G.O., No. 1556 W., dated 26th June 1895; the excess requiring sanction is therefore Rs. 1,200.

2. The original estimate has been revised by the Local Fund Engineer in order that provision may be made for some additional works found by him to be necessary during course of execution and for certain alterations which he has made in the designs of the masonry works as sanctioned and in the formation of the road. Some of the culverts included in the original estimate have since been considered by him to be unnecessary and have now been omitted. Provision is also made in the estimate for the excess amount paid as compensation for the lands required for the road. The excesses and savings effected by the revision of the estimate are as shown below:—

(1) On account of additional culverts in the 1st, 2nd, 3rd and 10th miles, and a road dam 114 feet long in the 10th mile, Rs. 2,375 (excess).

(1-*a*) Omission of culverts in the 5th, 7th and 11th miles, Rs. 1,510 (saving).

(2) Alterations in the designs, that is, adding a vent to culvert No. XI in the 6th mile, and increasing the length of road dam No. XVIII in the 10th mile, Rs. 725 (excess).

(2-*a*) On account of reducing the width of roadway between parapets from 16 to 12 feet in all the culverts and bridges, and substituting covering stones in place of segmental arches, &c., Rs. 2,075 (saving).

(3) On account of excess paid for land compensation, Rs. 1,690–14–11 (excess).

(4) Alterations in the gradient of road in the 3rd mile, Rs. 109–1–1 (excess).

(5) Supervision charges, Rs. 115 (saving).

The total excess effected on these items is Rs. 4,900, and the saving Rs. 3,700 (see margin). The estimate, as thus revised by the Local Fund Engineer, has been approved of by the district board in their proceedings (resolution No. 1, dated 22nd March 1898), which is also herewith forwarded accompanied by the President's letter, Ref. B. on C. No. 189, dated 14th April 1898.

Excess.			*Saving.*
RS.	A.	P.	RS.
2,375	0	0	1,510
725	0	0	2,075
1,690	14	11	115
109	1	1	
4,900	0	0	3,700

3. Data in support of rates for items of bridges Nos. 2 and 20 accompany the estimate. The Local Fund Engineer proposes to form the keystones of these works of concrete in portland cement. Cut stone would be better, but the span being only 20 feet, there seems to be no reason why the arch should not be constructed of brick throughout.

4. The estimate is recommended for sanction.

Note by the Chief Engineer, Public Works Department.

The Local Fund Engineer proposes to form the keystones of bridges Nos. 2 and 20 of concrete in portland cement. The undersigned considers that it will be preferable to construct the arches of brick throughout. With this modification, the revised estimate is recommended for sanction.

(Signed) W. B. deWINTON,
Chief Engineer.

26th July 1898.

Order—No. 1967 W., dated 5th August 1898.

The revised estimate amounting to Rs. 54,400, for constructing a road between Ettiyapuram and Viláttikulam in the Tinnevelly district is sanctioned in supersession of the estimate of Rs. 53,200 sanctioned in G.O., No. 1556 W., dated 26th June 1895.

2. Attention is drawn to the Chief Engineer's note read above.

3. This sanction has been registered as Local No. 14 W. of 1898–99.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, VI Circle.
„ Local and Municipal Department, with enclosures.

Exd. T. K. Narayana Aiyangar.

A ~~His Excellency the Governor~~. Public Works **DEPARTMENT.**

Papers to be read in Proceedings :—

Again G.O., dated 189 , No.

Again G.O., dated 189 , No.

Current No. 5838 of 1898, dated 8" July 1898, from the S.E. VI Circle

" " " 189 , " noted by the Chief Engineer.

" " " 189 , "

ORDER.

No 1967 W dated 5-8-98

The revised estimate amounting to Rs 64,400 for constructing a road between Ettiyapuram and Vilathikulam in the Tinnevelly District is sanctioned in supersession of the estimate of Rs 53,200 sanctioned in G.O. No 1556 W dated 26" June 1895.

2. Attention is drawn to the Chief Engineer's note read above.

3. This sanction has been registered as Local No 14 W of 1898-99.

26.7.98

W

Note

A.S.H 29.7.98

The Local and Municipal Dept. for favour of C-2.

To

The S.E. VI Circle

" Local & Municipal Dept. with enclos: 23

May 27

D 18/8/98

[P. W. 4. / 500—24-3-98.]

26.7.98 28.7.98 R. 2.8.98

Note

This estimate has been dealt with in the accompanying technical note and the note by the Chief Engineer

26.7.98
W

P.W.D.

Note by the Chief Engineer

The Local Fund Engineer proposes to form the keystones of bridges No. 2 and 20 of concrete in Portland cement. The undersigned considers that it will be preferable to construct the arches of brick throughout. With this modification, the revised estimate is recommended for sanction.

26.7.98
E.W.

Maj

1967

Public Works Department.

Current No. 5838

Letter No. 522 T.N

Dated 8th July 1898

From the Supt. Engineer II Circ

NOTE BY TECHNICAL SECTION.

Name of work. Road between Ettiyapuram and Vilatti Kulum Tinnevelly District.

Est Rs 54,400

The Supt. Engineer II Circle forwards for sanction of Government a revised Estimate with comparati Statement for Rs 54,400 for the road between Ettiyapuram and Vilatti-Kulum – 11$\frac{5}{8}$ miles in lengt in the Ottapidaram Taluq of the Tinnevelly District –

An Estimate for Rs 53,200 was originally sanctioned for this road in G.O. No 1556 W dated 26th June 1895. During construction it was found necessary to provide a few additional culverts and a road-dam, and to make some alterations in the construction

W

This estimate has presumably been worked out, as it was sanctioned 4 years ago.

2. The revised estimate, involving the small excess of Rs 1200 only, and providing for necessary alterations can be passed with the remarks that the arches of bridges No 2 & 20, of 20' span, shd be built in brickwork throughout.

3. The design of the road dams, having originally been approved by Govt, ~~to~~ can hardly now be altered

ACR
23. 7. 98.

25. 7. 98

P. W. 60
250—30-9-97.

of culverts already estimated for. The compensation for land also greatly exceeded the original Estimate.

The revised Estimate provides for forming the road 18 ft wide of which 15 ft is to be gravelled to a depth of 10½", side slopes of embankment being 2 to 1, the construction of 23 masonry works, and compensation for land.

The direction of road is indicated in the "Index Map". Provision is made for bridging the streams with the exception of the River Kaippar in the 11th Mile which is 1300 ft in width, & it will be left unbridged for the present.

Briefly, the changes made are as follows.-

I. Earthwork. In the 3rd Mile the gradients have been altered from 1 in 20 in two places to 1 in 96 and 1 in 52.

2. Revetment not provided in original Estimate

but found necessary to protect bank from scour from surplus of Tank at No. 1A culvert in 3rd Mile.

3. Masonry works. 3 Culverts 8, 12 & 19 in 5th 7th & 11th Miles have been omitted altogether being found unnecessary; and 4 new culverts 0A, 0B, 3A and 17A in the 1st 2nd 3rd & 10th Miles and 1 Road-dam 17b in 10th Mile have been introduced, and 1 Road-dam has been lengthened in 10th Mile from 300 to 345 feet.

The width between parapets of all masonry works has been reduced from 16 feet to 12 feet. Covering stones have been substituted for cut stone arches in all culverts up to 6 feet spans, and the segmental arches of Bridges No 2 and 20-side plan on drawing No. 4 are now proposed to be constructed of brick in mortar with cut-stone facings 1½' thick instead of cut stone arches.

4. Under the item "Compensation for land" an excess of Rs 1690-14-11 occurs, which was settled and paid through

through the Revenue authorities. This excess absorbs the savings on other items and causes a net increase on the Revised Estimate of Rs 1,200 – vide detailed Statement attached compiled from "Comparative Statement" forwarded by Local Fund Engineer.

The plans of Bridges and Culverts have been worked to as originally sanctioned with the exception of changes noted above.

The L. F. Engineer proposes to form the keystones of Bridges No 2 and 20 of concrete in Portland Cement, but the span being only 20 feet the Supt Engineer sees no reason why the arches should not be constructed of brick throughout – The rate for Concrete in P Cement is Rs 80 per 100 Cub Ft & flat form moulded brick in mortar Rs 36 & 42, respectively, per 100 Cub Ft; but as the quantity is only 68 Cub Ft the saving will be proportionally small viz

The arches should be of brickwork throughout

Rs 27 on each bridge.

The road dams are capable of improvement on the lines noticed by W, viz – omission of front walls and provision of aprons but, as the works are presumably* completed, nothing can be done with reference to front walls but aprons might, with advantage, be added to them at centre.

Complete plans and Estimates have been re-submitted for all masonry works, based on previously approved hydraulic and structural details, except that the alterations noted above have received attention – These have been gone through and found correct.

Rates – Data, in detail, is submitted in support of rates for masonry works and Road material.

The Estimate has been sanctioned in District Board resolution No 1 dated 22nd March 1898.

H.C.S.
22-7-98

* Since the original estimate was sanctioned 3 years ago –
H.C.S.

The road dams were approved in the G.O. sanctioning the original estimate, & it would be out of place now to revise the design –

The various alterations made in the estimate seem necessary or advisable

A.K.
23.7.98.

roportionally small viz

Statement of "Excess" and "Savings" compiled from Comparative Statement accompanying Estimate —

	Particulars	Excess	Savings	Cause
1. Earthwork	3rd Mile	170-10-11		Omission of Culvert
	5th Mile	17-13-9		
	7th Mile	3-3-11		
	8th Mile	3-10-5		
	11th Mile	3-2-7		
	12th Mile	11-10-7		
	1st 2nd & 6th Miles		3-11-8	Construction of Culvert No 17 A & Road-dam No 17 B.
	10th Mile		47-6-10	
	Contingencies		20-0-7	
	Supervision		30-0-0	
		210-4-2	101-3-1	
	Total.	109-1-1		
2. Compensation for Land	—	1690-14-1		Assessed by Revenue authorities & paid.
3. Masonry Works	No 0A Culvert	180-0-0		New Work
	No 0B "	165-0-0		— do —
	No 1 "		25-0-0	Reduction of roadway found necessary
	No 1A Revetment	370-0		
	No 2 Bridge		400-0-0	Reduction of roadway
	No 3 Culvert		150-0-0	— do —
	No 3A "	400-0		New work
	No 4 "		200-0-0	Reduction of roadway
	No 5 "		90-0-0	— do —
	No 6 "		75-0-0	— do —
	No 7 "		65-0-0	— do —
	No 8 "		560-0-0	— Omitted
	No 9 "		75-0-0	Reduction of Roadway
	No 10 "		90-0-0	— do —

Statement of "Excess" and "Savings" compiled from "Comparative Statement"

	Particulars	Excess	Savings	Cause
Masonry Works - Continued -	No 11 Culvert	10-0		Altered from 1 to 2 Vents
	No 12 — " —		450-0-0	omitted
	No 13 — " —		145-0-0	Reduction of roadway
	No 14 — " —		175-0-0	— do —
	No 15 — " —		145-0-0	— do —
	No 16 — " —		130-0-0	— do —
	No 17 — " —		25-0-0	— do —
	No 17A — " —	370-0		New work.
	No 17B Rdam	850-0		— " —
	No 18 — " —	715-0		Length increased
	No 19 Culvert		500-0-0	omitted
	No 20 Bridge		285-0-0	Reduction of roadway
	Supervision		115-0-0	
		3100	3700-0	
	Total		600-0.	

Abstract.

1. Earthwork	109-1-1	
2. Compensation for Land	1690-14-1	
3. Masonry Works		600-0
Total	1799-15-2	
	600-0-0	
Total Excess on Estimate requiring sanction	1199-15-2 Say Rs 1,200	

H. R. W.
22.7.98

proportionary

Public Works (1898) Department.

CURRENT No. 5838

Order

From
The Supdg: Engineer
VI Circle

No. 522 T.N.

Dated 8 July 1898.
Received 13 — do —.
Enclosures 24. (16 plans)
Spare copies

SUBJECT.

Road between Ettiyapuram and Vilattikulam in the Tinnevelly Dt:— Submitting for sanction a revised estimate of Rs 54,400 for constructing a —

I/ For scrutiny
ADH
14.7.98.
DW

W.

o.L.S. 247
RH/8

BACK PAPERS.

No.	Date.
155 bw	26-6-95
3943C	7-12-94
4808	29-6-94

FURTHER PAPERS.

No.	Date.

SUPG. ENGINEER'S OFFICE,
No. 270
18 APR. 1898
P.W.D.
SIXTH CIRCLE.

Local & Munl. (1898) Department.

1967

CURRENT No.

DD/1874

From The President, District Board
Tinnevelly.

Order.

Ref Bow cur **No.** 189 of 1898.
Enc: 5 (4 sent separately in 1 pocket & 1 parcel)

Dated 14th } April 1898.
Received 18 – }
Registered
Enclosures
Spare copies

P.W.C. 24 / 5838/98

SUBJECT.

Road between Ettayapuram and Vilatikulam.

Forwarding for the sanction of Government revised estimate for the construction of a ——.

2290 W/95 & file

Enclo No. 24 to S.E. 6th No. 522 W / 8-7-98

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

SUPG. ENGINEER'S OFFICE,
No. 1/2767 M.
18 APR. 1898
P.W.D.
SIXTH CIRCLE.

PROCEEDINGS OF THE District BOARD Tinnevelly

Dated 22nd March 1898

Resolution No. 1

Present.

Robert B. Clegg Esquire President

Officials

(1) Charles Gordon Spencer Esquire Sub Collector
(2) M.R.Ry. T. Raghaviah Garu Headquarter Dy. Collector
(3) Syed Mustafa Sahib Bahadur General Charge Dy. Collector
(4) M.R.Ry. P. Narasimha Sastriar avergal Tahsildar of Srivilliputur
(5) " C. Mukunda Rao avergal Tahsildar of Nanguneri
(6) " M. Maharaja Pillai avergal Tahsildar of Tenkasi
(7) " T. L. Subba Row avergal Sub Assistant Inspector of Schools
(8) N. Muhammad Usman Sahib Bahadur Civil Surgeon.

Non-Officials

(9) Reverend A Margoschis
(10) Reverend A. J. Godden
(11) M.R.Ry. P. Sivarama Aiyer avergal Manager Ettayapuram Estate
(12) — " Chengalvaraya Aiyar avergal Manager Sivagiri Estate
(13) — " R. Subbier avergal
(14) — " Palaniyandi Mudaliar avergal
(15) — " N. S. Manikkavasaga Mudaliar avergal

(16) Syedji Meah Sahib
(17) Nathadu Bava Rowther
(18) M.R.Ry. M. Shanmugam Pillai avergal
(19) — " Soma Sundram Pillai avergal
(20) — " Kumara Sami Mudaliar avergal

Read Local Fund Engineer's letter No. 347/A.68 dated 21st February 1898 forwarding for sanction a revised estimate of Rs 54,400 for the construction of a road between Ettayapuram and Vilatikulam, Otapidaram taluk. The revised estimate exceeds the original by Rs 1,200 which is chiefly owing to the excess paid as compensation for lands required for the road. In the revised estimate provision is made for the erection of some additional culverts & a road dam and certain other alterations in the construction of culverts &c.

Read also Government order No: 1212 L Miscellaneous dated 11 July 95, sanctioning the original estimate.

Sanctioned.
Funds will be allotted from next year's balance.
(True extract)

Hubbard
for President

Ref B O W C No 189 of 98.
Enc: 5.

District Board Office
Tinnevelly
Dated 14th April 1898

SUPG. ENGINEER'S OFFICE
No. 27
18 APR. 1898
P.W.D.
SIXTH CIRCLE.

From
Robert B. Clegg Esquire
President, District Board,
Tinnevelly

To,
The Secretary to Government
Local & Municipal Department
Fort Saint George
(Through the Superintending Engineer
VI Circle)

Sir,

In Government order No: 1212 L. Miscellaneous dated 11th July 1895 an estimate of Rs 53,200 was sanctioned for the construction of a road with masonry works between Ettayapuram and Vilatikulam. It was found necessary to provide a few additional culverts and a road dam and to make some alterations in the construction of culverts already estimated for. Payment of compensation for lands required for the road, exceeded the estimate,

so

so that the estimate had to be necessarily revised. The estimate was accordingly revised, and which exceeded the original amount by Rs 1,200. It was sanctioned by the District Board in its Resolution No: 1 dated 22nd March 1898, Copy enclosed. I have the honor to request that you will be good enough to obtain the sanction of Government for the same.

2. The estimates, original and revised and the plans are enclosed.

I have the honor to be,
Sir,
Your most obedient Servt

President
16/4/98

15-4-98.

Dt. Bd.
DESPATCHED
16 APR. 98

No: 522 T.N.

Supg Engineer's office, V Circle.
Camp Melur 8° July 1898.
D/12.

From
Lt Col. C. V. Boddy R.E.
Supg Engineer, V Circle

To
The Chief Engineer,
P.W.D.

Enclosures: 24 ×:
(Plans see below)

×: Sent separately per Packet Post.

Sir,

I have the honor to submit for sanction of Government, Plans and a revised estimate amounting to Rs 54,400 together with Comparative statement, for the construction of a road, including masonry works, between Ettiyapuram and Vilathikulam in the Ottapidaram taluq, Tinnevelly Dt. The estimate is submitted in supersession of that for Rs 53,200 sanctioned in G.O. No: 1556 W dated 26 June 1895; the excess requiring sanction is therefore Rs 1,200.

2. The original estimate has been revised by the Local Fund Engineer in order that provision may be made for some additional works found by him to be necessary during course of execution

and for certain alterations which he has made in the designs of the masonry works as sanctioned and in the formation of the road. Some of the culverts included in the original estimate have since been considered by him to be unnecessary and have now been omitted. Provision is also made in the estimate for the excess amount paid as compensation for the lands required for the road. The excesses and savings effected by the revision of the estimate are as shown below:—

(1) On account of additional culverts in the 1st, 2d, 3d & 10th miles, and a road dam 114 ft long in the 10th mile - Rs 2375 (Excess).

(1a) Omission of culverts in the 5th, 7th & 11th miles Rs 1510 (Saving)

(2) Alterations in the designs, that is, adding a vent to culvert No: XI in the 6th mile and increasing the length of road dam No: XVIII in the 10th mile Rs 725 (Excess).

(a) On account of reducing the width of roadway between parapets from 16 to 12 feet in all the culverts and bridges, and substituting covering stones in place of segmental arches &ca Rs 2075 (Saving)

(3) On account of excess paid for land compensation Rs 1690-14-11 (Excess)

(4) Alterations in the gradient of road in the 3rd mile Rs 109-1-1 (Excess)

(5) Supervision charges Rs 115 (Saving)

The total excess effected on these items is Rs 4,900 and the saving Rs 3,700 (see margin). The estimate as thus revised by the Local Fund Engineer has been approved of by the District Board in their Proceedings. Resolution No: 1 dated 22d March 1898, which is also herewith forwarded accompanied by the President's letter Ref. B or C. No: 189 of 98 dated 14th April 1898.

Excess.
2375
725
1,690-14-11
109-1-1
4,900-0-0

Saving.
1,510
2075
115
3,700

3. Data in support of rates for items of bridges No: 2 & No: 20 accompany the estimate. The Local Fund Engineer proposes to form the keystones of these works of Concrete in Portland Cement. But stone would be better, but the span being only 20' there seems to be no reason why the arch should not be constructed of brick throughout.

no reason at all for so small a span.

4. The estimate is recommended for sanction.

I have the honor to be
Sir,
Your most obedt. Servant,

C. V. Hodsley Lt Col. R.E.
Superintending Engineer
IV Circle

6/7/98

Enclosures: 24.*

Original Estimate and Plans.

1. Index map.
1. Section of Road.
3. Sheets of Survey and Longitudinal Section of road.
3. Sheets of Masonry plans.
1. Report with data & specification &c.
1. Abstract Estimate
1. Detail Estimate for Earthwork
1 — do — do — for Masonry works.

12.

Revised Estimate and Plans.

3. Sheets of Survey and Longl. Section
4. Sheets of Masonry Plans
1. Detailed Estimate for Earthwork
1 — do — for Masonry works.
1. General abstract
1. Comparative Statement with report data &c.
1. Proceedings of the Dt. Board, No: 1 of 22. 3-98 accompanied by the President's letter No: 187 of 98 / 14 – 4 – 98.

12

* Sent separately per Packet Post