

(1) Number of pages 16(2) Date of repair 17-4-68

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

P. W.

DEPARTMENT.

G.O. No. 1149.	Press Mis. —
236-7.	
Dated 17-4-	18 68.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
17th April 1868.*

No. 236. Read the following letter from the Superintending Engineer, 6th Division, to the Secretary to Government, Department Public Works, dated Valanganny, 24th March 1868, No. 1,796:—

1. I have the honor to forward
an estimate of Rupees 11,470 for the
completion of the road from Trichi-
nopoly to the Salem frontier, via Torriore, supplemental to the estimate of Rupees
50,000, sanctioned in Government Order
No. 1,405 of 1856, and for which Rupees
5,000 is provided in the Budget of 1868-69.

2. The Range Officer has submitted a comparative statement of the original
estimate and the actual cost of work executed, and shows an excess of Rupees 1,517
on account of earth-work; nearly half this is due to Rupees 50 having been allowed
in the original estimate for the approaches to the Oopenaur bridge, while the
approaches actually cost Rupees 773-11-0; the bridge stands very high, the lead
was 70 yards, and the soil hard and mixed
Average of approaches 3½ yards. with kunkur; the other half would appear
to be due to a part of the work having been left untouched when in an incomplete
state for about a year, and to a rise of the cost of labor in the last ten years.

3. An excess of Rupees 810 is due to the construction of a 100-yard road
dam and a road tunnel, by my order, at Torriore. The tunnel was destroyed by
the breaching of the supply channel of the Torriore tank in the immediate vicinity
of the tank itself, and the Zemindar declined to close the breach, it was therefore
necessary to provide a passage for flood-waters in the raised road embankment near
Torriore.

4. An excess of Rupees 346 on masonry works is due partly to the destruc-
tion of perishable materials, such as palmyrahs for centrings, chunam, &c., when the
work was suspended for a year, and partly to the rise in prices since 1856 when the
estimate was prepared.

5. An excess of Rupees 68 is due to a small excess on account of compen-
sation for land, and for removing prickly-pear on the line of road.

6. The total excess is Rupees 2,741, and this amount has to be made good
to the original estimate.

7. Twelve culverts and thirteen road dams are required to complete the
provision for the passage of channels and drainage across the line of road at a cost
of Rupees 3,060.

8. Where the road passes through the Singalandapuram tank it requires to be
raised to prevent its being submerged
and breached as it has been during the
last two years. The embankment must be protected by a rough-stone revetment
on one side, and by turf on the other—Rupees 2,391 provides for this.

9. Rupees 1,431 are required for metalling portions of the road for which,
though passing through black cotton soil, no provision was made in the original
estimate.

C. J. Saugley
Acting Collector

H. T. Dares Captain R.E.
Superintendent Division

Proceedings of the Madras Government, Public Works Department.
17th April 1868.

10. Rupees 576 are required for clearing jungle in the last four miles of the road, south of the Salem frontier; the jungle though cleared when the road-work was commenced has sprung up again.

11. The balance, Rupees 1,271, is required for raising portions of the road for forming approaches to jungle streams and for sundries.

12. Owing to the alienation of the Rupees 2,741 for the purposes mentioned above, the last four miles and 610 yards of the road, south of the Salem frontier, have not been formed. The estimate for this portion has been made anew, and the rates allowed are high, because the soil is stony, there is no good water to be had in the jungle, and the coolies cannot remain near their work, but must proceed to it from Moonungumputty and return to that village daily, and it is about four miles from the Salem boundary.

13. The supplemental estimate is higher than I anticipated, but I do not see that any of the items can be omitted without leaving the road incomplete; I would suggest, therefore, that the estimate should be passed in full, and though only

Budget No. 310.

Rupees 5,000 have been allotted for the work in 1868-69, it will be possible

to provide the balance required later in the year by a transfer from Tanjore, as many of the roads for which provision has been made in the Imperial Budget have also been provided for from Local Funds. This will form the subject of a separate letter.

No. 237.

ORDER THEREON, 17th April 1868, No. 1,149.

CIVIL WORKS, No. 31.

1. Under the detailed explanations afforded by the Superintending Engineer of the 6th Division, His Excellency

the Governor in Council sanctions the supplemental estimate of Rupees 11,470 for the completion of the road from Trichinopoly to the Salem frontier, via Torriore.

2. The comparative statement referred to in paragraph 2 should have formed an accompaniment to the Superintending Engineer's letter.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 6th Division.
,, Accountant General.
,, Controller of Public Works Accounts.

Exd. T. O' Connor.

Communication

New Work

Trichinopoly District

No. 2 or Muzery Range

Abstract Estimate No. of 186-6.

Work Supplemental Estimate for
Constructing a Road from Trichinopoly via Torriore
to Salem boundary

Quantity	Description of Charges.	Rate	Amount	Amount of each part.
12,141 1/2	Good Earth	at	13	948 8 10
14 12 1/2	Do Do	"	2	176 8 1
1204 5/12	Do	"	23	169 5 11
5990 7/8	Do Hard road & Stony	"	26	936 12
3122 5/32	Do Stony	"	39	731 12 1
1087	Metalling	"	4	271 12
12 1/5	Do	"	5	379 11
2640	Do	"	6	990
300	Jelly	"	76	140 10
1195 8/8	Do	"	1	119 10
30	Removing rock	"	1	30
952 7/8	Rough stones	"	14	1191 16
2733 1/2	Sp. of Turfing	prospect	16	256 3 10
184,500	Clearing jungle, 100 sq. ft. at	"	5	576 9
	Sundries and Contingencies			342 2 7
				7260

Sloping banks of Jungle Streams 200
Planting Avenue & Kathalay &c for 19 miles at
at 50 a mile 950
Cost of Masonry works as per Appendix 3060

Total Estimate Rupees 11470

By Order of A. C. Lawford,
Exec. Engineer in Ch. No. 2 Range

C. J. Lawley, Acting Collector
H. F. Gates, Captain R. E.,
Superintendent Engineer Division

Appendix of the Cost of Erecting Masonry
works on Road from Trichinopoly via
Tore to Salem Boundary 3

authy	Description of Charges	Rate	Amount	Amount of each part
	Constructing Culvert of 1 Vent 6 feet Span Estimate No 17.			
84 8/9	Cross Rough Stone in Chumam at 1 12.	12.	148 8 10	
324 3/8	Brick in Chumam at 22.	22.	40 8 9	
430 1/2	Arch work at 26	26	67 4 3	
44 5/8	Plastering at 2	2	9 9 7	
7 1/3	Pointing at 12	12	8 4	
	Excavating foundation and filling in		15	
	Centering		20	
	Sundries and contingencies		17 12 7	
	Total			327

	No 1			
	Constructing Culvert of 1 Vent 6 feet Span			
62	Cross Rough stone in Chumam at 1 12.	12.	108 8	
161 1/8	Brick in Chumam at 22.	22.	20 2 3	
307 1/2	Arch work at 26	26	48 9	
3 1/10	Plastering at 2	2	6 3 2	
6	Pointing at 12	12	6 12 2	
	Excavating foundation		10	
	Centering		15	
	Sundries and contingencies		15 5 10	
	Total			230

Carried over 557

Pr. N. 12/11/60

Brought forward 557..

No. 6

Adding an Arch to a Culvert of
6 feet span

37 2/3	Cyds. Rough stone in Chumam	at 1 12	65 148
124 1/2	Cft. Brick in Chumam	at 2	15 9
307 1/2	Arch work	at 2 6	48 9
3	Spec. Plastering	at 2	6
4 20	Pointing	at 1 2	4 8 10
	Excavating foundations		7
	Centering		15
	Demolishing old work		5
	Sundries and Contingencies		10 149
	Total		178

No. 10, 31, 33, & 34

Constructing a Culvert of 1 Vent
3 feet span

27 4/6	Cyds. Rough stone in Chumam	at 1 12	48 74
64	Cft. Brick in Chumam	at 2	8
180	Arch work	at 2 6	28 2
170	Spec. Plastering	at 2	3 64
3 1/2	Pointing	at 1 2	3 15
	Excavating foundations		4
	Centering		8
	Sundries and Contingencies		6 14
	Total for one		110

Total for three more at 110 .. 330 ..

Total for four 440 ..

No. 7 and 9

Rebuilding Culvert of 1 Vent
3 feet span

19 4/6	Cyds. Rough stone in Chumam	at 1	19 11
8	" " " " " "	at 1 12	14
64	Cft. Brick in Chumam	at 2	8
180	Arch work	at 2 6	28 2

Carried over 69 13 1175 ..

Brought forward

69 13 1175 ..

17 1/10	Spec. Plastering	at 2	3 64
3 1/2	Pointing	at 1 2	3 15
	Excavating foundations		4
	Centering		8
	Demolishing old work		10
	Sundries and Contingencies		5 158
	Total for one		105
	Total for Another No. 9	at 105	105
	Total for Two		210

No. 11 and 15

Constructing Culvert of one Vent
1 1/2 feet span

11 7/12	Cyds. Rough stone in Chumam	at 1 12	20 44
207 3/4	Cft. Brick in Chumam	at 2	25 156
2	Spec. Plastering	at 2	4
1 1/8	Pointing	at 1 2	1 43
	Excavating foundations		3
	Sundries and Contingencies		2 7 11
	Total for one		57
	Total for Another No. 15	at 57	57
	Total for Two		114

No. 8 and 18

Constructing Flat Pipe of
1 Vent 1 1/2 feet span

8 3/4	Cyds. Rough stone in Chumam	at 2	17 8
3 1/2	Covering stones	at 2 4	7 14
	Excavating foundations		3
	Sundries and Contingencies		1 10
	Total for one		30
	Total for Another No. 18	at 30	30
	Total for Two		60

Carried over

1559 ..

Brought forward 1559.

No. 26.

Constructing Road Dam 100 yards.

322 Cysd: Rough stone in chunam at 1 1/2. 563 8.
100 Cysd: Graveling at .6. 37 8.
Excavating foundation 20.
Sundries and contingencies 29.
Total 650.

Constructing Road Dam 30 yards.

Nos 21 and 32.

72 Cysd: Rough stone in chunam at 1 1/2. 126.
30 Graveling at .5. 9 6.
Excavation 6.
Sundries and contingencies 8 10.
Total 150.
Total for another No. 32 at 150. 150.
Total for Two 300.

Nos 16, 28, and 30.

Constructing Road Dam of
20 yards.

49 3/4 Cysd: Rough stone in chunam at 1 1/2. 87 1 9
20 Do. Graveling at .5. 6 4.
Excavation 3.
Sundries and contingencies 3 10 3
Total for one 100.
Total for another 2. Nos 28 & 30 at 100. 200.
Total for Three 300.

No. 25.

Constructing Road Dam 17 yds.

31 5/8 Cysd: Rough stone in chunam at 1 1/2. 55 3 7
17 " Graveling at .5. 5 5.
Excavation 2.
Sundries and contingencies 3 7 5
Total 66.
Carried over 2875.

Brought forward 2875.

No. 14.

Constructing Road Dam of
12 yards.

16 5/6 Cysd: Rough stone in chunam at 1 1/2. 29 7 4
12 " Graveling at .5. 3 1 2.
Excavation 18.
Sundries and contingencies 24 8
Total 37.

Nos 24, 27, 29, and 35.

14 1/2 Constructing Road Dam
10 yards.

14 1/2 Cysd: Rough stone in chunam at 1 1/2. 25 6.
10 Graveling at .5. 3 2.
Excavation 18.
Sundries and contingencies 2.
Total for one 32.
Total for 3. Nos 27, 29, & 35 at 32. 96.
Total for Four 128.

No. 23.

Constructing Road Dam 6 yards.

9 1/2 Cysd: Rough stone in chunam at 1 1/2. 15 1 4
6 " Graveling at .5. 1 4.
Excavation 1.
Sundries and contingencies 1 3 8
Total 20.

Total Estimate for Masonry 3060.

1 Signed A.C. Lawford
Exec. Engineer in Ch. No. 2 Range

Supy Engr Office B.D. Dwy.
24 March 1863

L.J. Lawley Supy Engineer B.D. Dwy.
Acting Collector

1st 1796/1867/68

Supr Engr's Office 6th Div
Palanganam 24th March 1868
6

From

Captain R. F. Baker R.E.
Supr Engineer 6th Division

To

Colonel C. F. A. R.E.
Secretary to Government
S.P. 112

Sir

Enclosed
Estimate Rs. 11,470 with appendix
Sketch of road & plan for
masonry work -

I have the honor to forward
an estimate of Rs. 11,470
for the completion of the
Road from Trichinopoly
to the Salem frontier

via Soreore - Supplemental to the
estimate of Rs. 50,000 sanctioned in Govt
Order No. 1405 of 1856 and for which
Rs. 5,000 is provided in the Budget of 68/69.

No. 310 -

2 The Range Officer has
submitted a comparative statement
of the original estimate and the actual
cost of work executed and shows an
excess of Rs. 1517 on account of Earthwork
nearly half this is due to Rs. 50 having
been

been allowed in the original estimate for the approaches to the Oopenaur Bridge while the approaches actually cost Rs 773-11- the Bridge stands very high, the lead was 70 yards and the soil hard and mixed with humken, the other half could appear to be due to a part of the work having been left untouched when in an incomplete state for about a year and to a rise of the cost of labor in the last 10 years. —

average of
approaches 3 1/2

3- An excess of Rs 810 is due to the construction of a 100 yard Road Dam and a Road tunnel, by my order, at Torriore. — The tunnel was destroyed by the breaching of the supply channel of the Torriore Tank in the immediate vicinity of the Tank itself and the Zemindar declined to close the Breach, it was therefore necessary to provide a passage for flood waters in the raised Road Embankment near Torriore. —

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5- An excess of Rs 68 is due to a small excess on account of Compensation for land and for removing Brickly Pan on the line of Road. —

6- The total excess is 2741 and this amount has to be made good to the original estimate. —

7- 12 Culverts & 13 Road Dams are required to complete the provision for the passage of channels and drainage across the line of Road at a cost of Rs 3060. —

8- Where the Road passes thro' the Singalanda puram Tank it requires to be raised to prevent its being submerged and breached as it has been during the last two years. The Embankment must be protected by a rough stone revetment on one side and by turf on the other — Rs 2391 provided for this. —

841 282

9- Rs 1431 are required for metalling portions of the Road for which, tho' passing thro' black cotton soil, no provision was made in the original estimate. —

10 Rs 576 are required for clearing jungle in the last 1/4 miles of the Road, south of the Salem frontier, the jungle tho' cleared when the road work was commenced has sprung up again. —

11 The balance Rs 1271 is required for raising portions of the Road for forming approaches to jungle streams and for sundries —

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return to their village early and it is about 1/4 miles from the Salem Boundary —

The supplemental estimate is higher than I anticipated but I do not see that any of the items can be omitted without leaving the Road incomplete, I would suggest therefore that the estimate should be passed in full and tho' only Rs 5,000 have been allotted for the work in 68/69 — it will be possible to provide the balance required, later, in the year by a tranche from Tanjore, as many of the Roads for which provision has been made in the Imperial Budget have also been provided for from Local Funds — This will form the subject for separate letter. —

I have the honor to be
Sir
Your most Obedt Servt —

J. P. P. S. Captain R.E.
Supt Engineer & Co —

1880 Dec 10
J. H. [unclear] 13

The [unclear] - Aug 22

J. Dickinson

The Secretary
to Fort. A. D. 1872

Dated 21st March 1882

Recd. & [unclear] 1882

Re: 1795 11

Balance: 2

For [unclear] [unclear]
must be [unclear]

For [unclear] from
[unclear] [unclear] to

Alum 1820 [unclear]

No 1143-17 - April 1888

Wt. are [unclear]

11-22 [unclear] [unclear]

Under the details [unclear]

materials [unclear] by the [unclear]
[unclear] of the 1st [unclear], the [unclear]

the [unclear] in [unclear] [unclear]

to [unclear] the [unclear] [unclear] [unclear]

of [unclear] 11,470 for the [unclear]

of the [unclear] from [unclear] [unclear]

to [unclear] [unclear], via [unclear]

The [unclear] [unclear]

must [unclear] [unclear] in [unclear]

2 [unclear] [unclear] [unclear]

are [unclear] [unclear] [unclear]

the [unclear] [unclear] letter.

W. H. [unclear]

to [unclear] [unclear]

to [unclear] [unclear]

to [unclear] [unclear]

to [unclear] [unclear]

to [unclear] [unclear]

to [unclear] [unclear]

to [unclear] [unclear]

to [unclear] [unclear]

[unclear]

A. 2361237

2. 1. 1880 1888 A. 60