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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. <i>995</i>	Press Mis.
<i>215-216</i>	
Dated <i>8 - 4 -</i>	<i>1864.</i>

Not to be folded or roughly handled*CS*

*Proceedings of the Madras Government, Public Works Department,
8th April 1864.*

No. 215. Read the following Memorandum from the Superintending Engineer, 4th Division, dated Madras, 5th April 1864, No. 6,058.

Read the following letter from C. W. MAITLAND, Esq., Sub-Engineer, Department Public Works, in charge No. 3 Range, Madras District, to Colonel A. J. M. BOILEAU, R. E., Superintending Engineer, 4th Division, dated Madras, 21st March 1864, No. 388:—

SIR,

1. I have the honor to forward herewith a Comparative Statement showing valuation of

work executed on the road from Chingleput to Terookalikoondrum (Estimate Rupees 6,730) to be Rupees 300 in excess of original Estimate, agreeably to measurements

recently verified by me, as also that an additional sum of Rupees 470 will be required for raising the road through the Chokayar Colam, an old tank recently restored, to which allusion has been made in my Inspection Report for December last, under date the 12th. This sum (Rupees 470) includes the expense of constructing a tunnel of 3 feet in this reach, as also of putting up 9 mile stones not provided for in the original Estimate.

2. Excepting the short bit, 300 yards through the Chokayar Colam, the metalling, &c., of the road has been completed, and I have much pleasure in reporting that the work has been executed in a most satisfactory manner by Contractor Tiruvengada Mudali under Overseer Annamalai Mudaliar.

3. The conditions on which the work was undertaken were that the Contractor should

either be paid at the rates marginally noted for work done, as agreed to by him, or the whole amount of the Estimate made over to him, and he should carry out all the work provided for in the original Estimate Rupees 6,730, together with the repairs or re-construction of all existing tunnels and bridges, requiring repairs, the construction of road dams where inverts were used before,

or wherever required, not so provided for, to the *exclusion only of new tunnels.*

4. The latter clause was lost sight of both by the Contractor and the Overseer, and two new tunnels one of two vents 3 feet, and another of one vent 3 feet have been constructed at a cost of Rupees 230 as per detailed measurements enclosed. These tunnels though not provided for in the original Estimate are most urgently required, as they span supply channels to the Terookalikoondrum tank, excavated since the Estimate for the road was submitted, and had it not been for the mistake under which they were carried out, provision would have had to be made for their construction in a Supplemental Estimate.

5. Under these circumstances I beg to recommend that the cost of constructing these tunnels, Rupees 230, may be passed to the Contractor. The amount you will observe is within 5 per cent. of the Estimate. I do not make any recommendation with reference to the balance Rupees 70, as I consider myself barred by the terms of the contract. The Contractor has however carried out large quantity of work in excess of the provisions made in the original Estimate, as will be seen from the Comparative Statement and the subjoined Memorandum, in a pains-taking and satisfactory manner, and I think him entitled to consideration.

- | | | |
|---|--------------|--------|
| 1. In earthwork, | Cubic Yards | 3,512 |
| * 2. Turfing, | Square Yards | 5,398 |
| * 3. Clearing jungle, | do. | 75,813 |
| * 4. Re-packing old stone revetment in reach through Nemmalai Naugah, | Cubic Yards | 480 |
| * 5. Forming foundation with broken stones for metalling in the same as the road was very muddy, | Cubic Yards | 811 |

Subj. Yards

43 5/27

Proceedings of the Madras Government, Public Works Department,
8th April 1864.

6. Masonry Works.

- 13 Road Dams of rough stone in chunam from 4 to 10 yards in length.
2 New Tunnels of two and one vent, 3 feet each.
5 Tunnels, vents $1\frac{1}{2}$ to $2\frac{1}{2}$ feet, reconstructed with old and partly new materials.
14 Tunnels of various sizes (1 to $3\frac{1}{2}$ feet vent) repaired, and new parapets and slope wings constructed.

(No provision at all for items marked thus * in original Estimate.)

The expense of all these extra works was in a great measure covered by a large saving on the item of metalling, including watering and rolling, the Contractor having undertaken it at $2\frac{1}{2}$ Annas less than the estimated rate per cubic yard.

6. The raising of the road through the Chokayar Colam, &c., as per Estimate Rupees 470 herewith submitted, is most urgently required, and I beg you will give me permission to proceed with the work as soon as possible. Payment may be deferred to next official year if there should be no funds available just now, as the Contractor is willing to wait.

7. I beg also to bring to notice that it would be very desirable to plant an avenue along this most useful road. I estimate the unplanted portion to be 7 miles in length, which at Rupees 120 per mile gives Rupees 840, for which amount an Estimate is herewith submitted, which may be carried out from Local Funds either as a whole or in parts as the means at your disposal may admit.

1. Submitted to Government with a recommendation that, under the circumstances explained by Mr. Sub-Engineer Maitland, sanction may be given for the disbursement from the Reserve Fund of 1864-65 of the additional sum Rupees 770 shown to be required for the completion of the road from Chingleput to Terookalikoon drum, for which an Estimate amounting to Rupees 6,730 was sanctioned by Government in their Proceedings No. 1,539 of the 15th June 1863.

2. The cause of excess appears to be chiefly owing to insufficient provision having been made in the original Estimate both for earth and masonry works, and to no allowance having been included therein for turving, clearing jungle, mile stones, &c.

3. The Sub-Engineer's Estimate Rupees 810 for planting trees on each side of the road, has been sent to the Collector with a view to its being sanctioned for execution next year from the sum set apart in the District Road Fund Budget for such purposes.

(Signed) A. J. M. BOILEAU, Colonel, R. E.,
Superintending Engineer, 4th Division.

No. 216. ORDER THEREON, 8th April 1864, No. 995.

1. As funds are available from the current year's Reserve, the Governor in Council sanctions from that source the additional amount, Rupees 770, applied for by the Superintending Engineer, 4th Division, for the completion of the road from Chingleput to Terookalikoon drum.

2. It is observed that of the sum now authorized Rupees 300 are for works already executed.

(True Extract.)

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

To the Superintending Engineer, 4th Division, with one Comparative Statement.

Accountant General.

Controller and Auditor of Public Works Accounts.

Exd. S. T. Augustin.

20
Detailed Estimate for 2 Tunnels already constructed on the Road from
Chingleput to Terookalikoon drum

Description of work	Measurement			Total Cubic or Square Contents
	Length	Breadth	Thickness	
A. Tunnel of 1 Vent 3 feet span				
Rough Stone in Chunam				
Foundation	18	7	6	270
do to King Wells	8	8	2	136
Side Walls above	36	2	3	216
King Wells	18	2	2	90
Parapets	14	1	6	42
Total Cubic feet or			754	
Cubic yards			27 $\frac{25}{27}$	
Plastering				
Side Walls	36	3		108
King	30	4		120
Parapets	31	6		186
Total Sq ft or			414	
Square			4 $\frac{14}{100}$	
Lounging Granite Stones	18	4	6	40
Total Cubic feet			40	
Coconutting and felling in foundation	6	3		13
do and do do to King Wells	4	3		9
Total Cubic yards			22 $\frac{8}{27}$	
A. Tunnel of 2 Vents 3 feet span				
Rough Stone in Chunam				
Foundation	18	12	6	450
do to King Wells	8	14	2	224
Side Walls above	36	2	3	216
Piers	19	2	3	114
King Wells	18	2	2	90
Parapets	24	1	6	72
Total Cubic feet or			1166	
Cubic yards			43 $\frac{5}{27}$	

Plastering					
Side Walls	74	2			222
Roof	48	4			192
Parapets	30	6			180
					594
Granite Stone	Total Sq feet or Squares				594
Granite Stone Coverings	36	4	6		81
	Total Cubic ft				81
Excavating & filling in foundation	7	4			21
do do do to King Walls	3	5	8		12
	Total Cubic yards				33

Abstract

No.	Description of Charges	Rate	Amount	Amount each part
1	Granite & English Stone in foundation	2 2	181	
2	Plastering	1 8	18	
3	Granite Stone Covering	6	46	
4	Excavating & filling in foundation	3	5	217
5	Excavating & filling in foundation	1 6	12	
	Landre's and Superintendence at about 5 Rs per day			
	Estimated Total		200	

For Dep. Engineer
 dated
 21st March 1864

L. M. M. M.
 Sub Eng. & M.
 in charge of Range

Detailed Estimate of 1863/64
 District Madras
 Taluk Chingleput

40

improvements to the road from Chingleput to
 you draw. Consisting of raising up a portion of Road at

30

Granite	18	4	6	9	60-9
Total Co. feet					60-9
up in foundations	11	3		12	24-12
Total Co. yds					24-12
					9

Plastering
 Side Walls 74
 Wing 48
 Parapets 30
 Total Sq feet 152

From

The Sub Engineer to W
 Ja. Charge of 3 Range
 Madras District

To The Deputy Engineer
 H. B. D.

Dated 21st }
 Recd. } March 1864

P.W. 1491/64

Detailed Estimate for
 2 Tunnels already con-
 = structed on the Road
 from Chingleput to Tiru-
 = Kallee Koondrum

Est. No. 230

Subt
 in C.

Detailed Estimate of 1863/64
 District Madras
 Taluk Chingleput

W

For additional improvements to the road from Chingleput to
 Thirukallee Koondrum. Consisting of raising up a portion of Road at
 Chingleput, constructing a Road Tunnel and fixing mile
 stones on the Road

Description of work	Measurements			Total (Cubical) Contents
	Length	Breadth	Thickness	
<u>Particulars</u> Raising up a portion of Road at the 7 th mile	300	8-8	1-4	3157-8
				3157-8
<u>Particulars</u> Surfing 2 miles	300	5-8		1650
				1650
- Constructing a Tunnel of 1 Vent 3 feet span Rough Stone in Churnam				
Foundation of Tunnel	18	7	2	252
Side Walls above	36	2	4-6	324
	36	1-3	1-6	22-6
Arrows	12	8-9	2	210
Wing Walls	24	2	3	144
Parapets	14	1-6	2-6	52-8
				Total Sq feet or 1005
				Total Sq yards 37 2/3
<u>Particulars</u> Side Walls	36	4-6		162
Wing do	30	4-6		135
Parapets	34	3-6		119
				Total Sq feet or 416
				Total Squares 4 1/10
Covering Stones / Granite	18	4-6	1-9	60-9
				Total Sq feet 60-9
Excavating & filling in foundations	11	3	1-12	24-12
				Total Co. yds 24-12
Mile Stones				9

N. 3 Range Office
Madras
21st March 1864

G. W. Maitland Esq.
Sub Engineer S. 3 Range
In Charge N. 3 Range
Madras District

Colonel A. J. M. Pearson R. E.

From
The Sub Engineer S. 3 Range
In Charge N. 3 Range
Madras District
To The Superintending Engineer
Division

N. 149/64.

Dated 21st March 1864
RE

Detailed and Abstract
Estimate N. of 1863/64
Work - For additional improve-
ments to the Road from Chugapat
to Terukalundiam. Consisting of
raising up a portion of Road at
Chokkarcolum; Constructing Road
Junction and placing mile stones
on the Road.

Est. Rs. 470-0-0

rates marginally noted for work done, as agreed to by him,
or the whole amount of the Estimate made over to him,
and he should carry out all the work provided for in
the original Estimate N. 6,730-0-0, together with the
repairs or reconstruction of all existing Tunnels and Bridges,
digging up
the Construction of Road Dams where mints were used
before

	1.6	Amount	Amount	part
...	1.0	249		
...	...	26		
...	...	77		
...	...	6		
...	...	23		
...	...	2		
...	...		110	
...	...		45	
...	...		40	
...	...		470	

G. W. Maitland
Sub Engineer S. 3 Range
In Charge N. 3 Range

Sanitary
Rs. 10
Sanitary work including
lamp post
Ramp stone in Ch. 142
Work done in Ch. 3 7/4
Arch work - 44
Masonry, P. 9, 10, 11, 12
watering & rolling of 14

Abstract

Serially	Description of Charges	Rate	Amount	Amount in Part
3188	Exp of Cartworks for raising Road including lamping	1 1/2	9 60	1

50

N. 388

N. 3 Range Office
Madras

21st March 1864

W. Maitland Esq^r

Sub Engineer S. 3rd R

In Charge N. 3 Range

Madras District

Colonel A. J. M. Barclay R. E.

Superintending Engineer

4th Division

Sir

I have the honor to forward herewith a Comparative Statement showing valuation of work executed on the Road from Chingleput to Tirukalikundrum (Estimate N. 6730) to be Rs. 300 in excess of original Estimate, agreeably to measurements recently verified by me, as also that an additional sum of Rs. 470 will be required for raising the Road through the Chokayar Column, an old Tank recently restored, to which addition has been made in my Inspection Report for Dec^r last under date the 12th. This sum (Rs. 470 --) includes the expense of constructing a Tunnel of 3 ft in this reach, as also of putting up 9 mile stones not provided for in the original Estimate.

2. Excepting the short bit, 300 yards through the Chokayar Column the metalling 3rd of the Road has been completed, and I have much pleasure in reporting that the work has been executed in a most satisfactory manner by Contractor Simsingada Mudali under Overseer Annamalai Mudaliar.

3. The conditions on which the work was undertaken were, that the Contractor should, ^{either} be paid at the rates marginally noted for work done, as agreed to by him, or the whole amount of the Estimate made over to him, and he should carry out all the work provided for in the original Estimate N. 6730 --, together with the repairs or reconstruction of all existing Tunnels and Bridges, ^{digging repairs,} the construction of Road Dams where inverts were used before.

Santhwork including 8 pie
lampings 8 pie
Comp. stone in Ch. 42 1/4 -- 2 1/8 Rs
Work in Ch. 3 Rs -- 3 1/4 Rs
Arch work -- 4 -- 3 1/2 Rs
Masonry & Collyer 1 1/2 Rs
watering 1 1/2 Rs

Santhwork including 8 pie
lampings 8 pie

Comp. stone in Ch. 42 1/4

Work in Ch. 3 Rs

Arch work -- 4 --

Masonry & Collyer 1 1/2 Rs

watering 1 1/2 Rs

Santhwork including 8 pie

lampings 8 pie

Comp. stone in Ch. 42 1/4

Work in Ch. 3 Rs

Arch work -- 4 --

Masonry & Collyer 1 1/2 Rs

watering 1 1/2 Rs

before, or whenever required, not so provided for, to the exclusion only of new Tunnels.

The latter clause was lost sight of both by the Contractor and the Overseer, and 2 new Tunnels one of 2 vents 3 ft., and another of one Vent 3 ft. have been constructed at a cost of Rs. 250 as per detailed measurements enclosed. These Tunnels tho' not provided for in the original Estimates are most urgently required, as they supply channels to the Simkhat-hundram Tank, excavated since the Estimate for the Road was submitted, and had it not been for the mistake under which they were carried out, provision would have had to be made for their construction in a Supplemental Estimate.

Under these circumstances I beg to recommend that the cost of constructing these Tunnels Rs. 250 may be passed to the Contractor. The amount you will observe is within 5 B.C. of the Estimate. I do not make any recommendation with reference to the Balance Rs. 70 as I consider myself barred by the terms of the Contract. The Contractor has however carried out large quantity of work in excess of the provisions made in the original Estimate, as will be seen from the Comparative Statement and the subjoined memo, in a pains-taking and satisfactory manner, and I think him entitled to consideration.

1. In Earthwork	Subi. yard	3512
* 2. Surfing	Square yards	5398.
* 3. Clearing jungle	do	75813
* 4. Re-packing old stone masonry in reach thro' Nannabhy Rangah	do	450
* 5. Forming foundation with broken stones for metalling in the same as the Road was very muddy &c	do	811

6. Masonry Works

13 Road Dams of rough Stone in Chumam from 6 to 70 yards in length.

2 New Tunnels of 2 and 1 Vent 3 ft. each

5. Tunnels Vents $1\frac{1}{2}$ to $2\frac{1}{2}$ ft. reconstructed with old, and partly new materials.

14 Tunnels of various sizes (1 to $3\frac{3}{4}$ ft Vent) repaired and new parapets and slope wings constructed.

(*) No provision at all for items marked thus in Original Estimate.)

The expense of all these extra works was in a great measure covered by a large saving on the item of metalling including watering and rolling, the Contractor having undertaken it at $2\frac{1}{2}$ Annas than the Estimated rate of 7 Annas.

6. The raising of the Road thro' the Chokyar Colam as per Estimate Rs. 470 herewith submitted is most urgently required, and I beg you will give me permission to proceed with the work as soon as possible. Payment may be deferred to next Official year if there should be no funds available just now, as the Contractor is willing to wait.

7. I beg also to bring to notice that it would be very desirable to plant an Avenue along this most useful Road. I estimate the unplanted portion to be 7 miles in length which at Rs. 120 per mile gives Rs. 840, for which amount an Estimate is herewith submitted which may be carried out from local funds either as a whole or in parts as the means at your disposal may admit.

I have the honor to be
Sir
your most obedient servant

L. Maitland
Sub Eng. & D.M.
Chok. No 3 Range

No 658.

Memorandum

Submitted to Government with
a recommendation that under the circumstances
explained by Mr. Sub Engineer Maitland
Sanction may be given for the disbursement
from the Reserve Fund of 1864/65 of the addition-
al sum Rs. 470 shown to be required for
the completion of the road from Changlepud to
Terukalicoonobram, for which an Estimate
amounting to Rs. 6700 was sanctioned by
Government in their Proceedings No. 1539 of the
15th June 1863.

The cause of excess appears to be
chiefly owing to insufficient provision having
been made in the original Estimate
both for earth and masonry works and no
allowance having been included therein for
surfing

From
The Sub Engineer Maitland
to the Secretary
to the Government
of Madras
23rd June 1863
C.P.

23rd June 1863
The Sub Engineer Maitland
to the Secretary
to the Government
of Madras
23rd June 1863
C.P.

turfing, Clearing Single Mile Stones &c.

The Sub Engineer's Estimate Bd 840 for
planting trees on each side of the road has
been sent to the collector with a view to its being
sanctioned for execution next year from
the sum set apart in the District Road
Fund Budget for such purposes.

Supl. Engr's Office

Madras

5 April 1864

A. Briceau Colonel R.E.

Superint. Engineer

Colonel Charles A. Orr R.E.

Secretary to Government
P.H.D.

Paul, Wells 1864 Deponent

Vol 49
Office of Justice
Hond
The duty inquired to
to the Secretary to Government
S. D. W.

Dates }
 Received } April
 Lucraft } 1864.
 No 1035.

Ms. B. 1. 5. 8.

NO 995-875ad/mc/64.

submit letters from Mr
Maitland and receive
news that the additional
sum of £400 applied for
by him for completing the
road from King's Gate to
Leitch's Landing may be
granted out of the revenue
fund of 1864/65.

William Croker

210995

No funds are available
from the current year's Revenue, the
Governor in Council satisfies you that
none the additional amount, Rs. 770,
applied for by the Superintendent Engineer
H. B. D. for the completion of the road
from Chingput to Sonikhatkhandun.

2. It is returned that of the sum
now authorized. \$2,800 are for work

already expended

[illegible]

100

100

100