Archives I—10,006—16-8-77.

(1) Number of pages 18
(2) Date of repair 27-10-86
(3) Initials of the Referencer Jeso

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. B.P. No.	751	Press. Mis.
Dated	12-3-1879	~~197~~.

A.H

Not to be folded or roughly handled

751/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

12th March 1879, No. 751 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 157. Endorsement of the Superintending Engineer, Fourth Circle, dated Coimbatore, 6th March 1879, No. 671/153.

From Major J. L. L. MORANT, R.E., Executive Engineer, Nilgiri Division, to the Superintending Engineer, Fourth Circle, dated Ootacamund, 26th February 1879, No. 75.

I HAVE the honor to acknowledge your No. 2,028/46, dated the 17th instant, and beg to offer my apologies for having submitted the estimate for the Coonoor Ghat storm repairs without fuller explanation than that contained in my letter No. 43 of the 12th instant. I erroneously thought a long explanation unnecessary, as I understood you had visited the ghat during the rainy season. I also fear my habits as late District Engineer induced me to overlook the necessity of earlier and fuller reports on the subject.

2. I beg now at your request to furnish full particulars, which I trust you will be pleased to consider satisfactory.

3. The annual maintenance on the Coonoor New Ghat (Rupees 9,680) was fully expended on—

65,415	Cubic feet blue metal broken, including blasting, boring, &c.
392,490	Square feet metal spread, raked, &c.
22	Bridges and 143 drains cleared of vegetation.
6	Cooly lines rebuilt.
100½	Cubic yards revetment built.
301½	Cubic feet of stone and mortar for parapets.
1,050	Square feet pointing parapets.
5,560	Running yards catch drains cleaned, and two new drains built, besides cutting of bushes, &c.

From April to August I had the advantage of Lieutenant C. B. Henderson, R.E.'s careful and personal assistance. Two-thirds of the allotment (Rupees 6,554) was expended by him.

4. This year has not, it is true, been a very exceptional year for land slips. But the following accidents have occurred :—

Rain-fall, September 1st, 3·34 inches.
9th, 1·26 inches.
24th, ·88 inch, which caused slips.
Rain-fall, October 6th, ·90 inch.
22nd, 1·83 inches, which caused slips.
Rain-fall, November 9th, 2·65 inches; ghat blocked for eight hours.
23rd, 2·20 inches; near the 5th mile.
26th, 1·62 inches; besides numerous smaller slips.
Rain-fall, December 10th, 1·93 inches; ghat blocked for four hours near 14th mile, besides smaller slips.
26th, 1·40 inches; ghat blocked for eight hours near the 6th mile, besides smaller slips.
27th, 1·70 inches.
28th, 0·80 inch.

In the early part of January rain fell causing slips.

Although heavy slips were quickly partly cleared so as to allow traffic to pass and thus the road was not allowed to be completely blocked for more than eight hours, still the entire clearance was necessarily a very much longer operation.

5. The entry in the estimate for stone removal comprises the blasting of some very large rocks which have been slipping for two or three past years and this year came down a little further. Their removal is suggested to prevent their falling on to the road next year or at any earlier time to the possible danger of passing traffic. If you wish these items to be excluded, the estimate can be reduced by Rupees 300, for I find through delay the work has not been begun as I thought it had. I therefore beg to submit an alternative estimate amounting to Rupees 1,450. On examining the estimate you will find the following to comprise the largest rocks :—

	FEET.	FEET.	FEET.	C. FT.	C. YDS.	
1st mile	13 ×	4 ×	9 =	468 =	17	*
4th „	10 ×	8 ×	5 =	400 =	14½	
5th „	9 ×	7 ×	6 =	378 =	14	
5th „	15 ×	12 ×	9 =	1,620 =	60	*
5th „	8 ×	7 ×	7 =	392 =	14½	
5th „	15 ×	15 ×	5 =	1,125 =	41½	*
5th „	8 ×	7 ×	5 =	280 =	10⅓	*
6th „	10 ×	8 ×	8 =	640 =	24	*
7th „	14 ×	6 ×	10½ =	882 =	32½	*
11th „	14 ×	14 ×	6 =	1,176 =	43½	*
15th „	10 ×	8 ×	6 =	480 =	14	

Of these eleven rocks I have checked (in some cases necessarily roughly as the rocks had already been removed) seven as marked with asterisks. The estimate measurements were in some cases made over the rocks after being blasted and are necessarily somewhat speculative. But the rate of Rupees 2 per cubic yard is less than the ordinary divisional rate which is Rupees 3½. Moreover some of the blasted rock was broken up for metal which was spread over places injured by slips, &c.; this amounted to 156 cubic yards and its cost is included in the rate for rock removal.

6. Regarding the check that I have exercised on this work, I beg to inform you that all payments have been made by me. None have been made by the Overseer in charge. On the 3rd instant I came up the Coonoor Ghat very leisurely with the draft estimate in my hand and personally checked as far as it was possible the items on the 14th, 11th, 7th, 6th, 5th, and 2nd miles reckoning from Coonoor. I have every reason to believe the estimate is a correct one, and such expenditure as has been incurred to have been well laid out.

7. I have not thought it proper to report this matter to you earlier because I understood you had visited the work, because I had already informed you of the probability of such expenditure being needed, and because I understood from your draft budget that at least Rupees 1,000 would be available. I waited until all chance of further slips became improbable before sending you one complete estimate for the whole work. If I have erred in judgment I respectfully beg to be excused.

8. The reason for carrying out the work in part in anticipation of sanction was the necessity of allowing traffic to pass up and down the ghat. Had the blocks not been partially cleared and the road made safe, I respectfully submit I should have involved myself (and indirectly involved Government) in claims for damages by toll contractors, carriers, and travellers in general.

9. As only 1,000 rupees are available in the current year I can restrict the actual expenditure to that sum. But at least Rupees 453 must be provided next year to cover the balance of the smaller estimate, liabilities to that amount having been incurred.

10. I beg to append a detailed statement of the expenditure on this work.

11. In reply to your paragraph 7, I have the honor to report that similar emergent expenditure has been incurred on the Kotagiri Ghat. This has been reported to the President of the Local Fund Board and an estimate forwarded for the approval of the Board.

12. Apologizing for having, I fear needlessly, caused all this correspondence.

Forwarded to the Chief Engineer with a request that Government may be asked to grant the Rupees 1,000 applied for in the revised budget submitted on the 24th December 1878 for the emergent storm repairs to the Coonoor New Ghat, and that, if possible, an additional amount of Rupees 450 may be given.

2. It is to be regretted that the Executive Engineer has completed this work and made no report regarding it until February. The work done was very necessary and had it been reported the undersigned certainly would have ordered it to be done in anticipation of sanction reporting the same and requesting allotment.

(Signed) A. A. G. MALET,
for Supg. Engr., Fourth Circle.

No. 158. Order thereon, 12th March 1879, No. 751 W.

The Government observe that provision to the extent of Rupees 1,000 has been made in the revised budget for 1878-79 for the Coonoor Ghat storm repairs. The additional sum of Rupees 450 now applied for will be provided from the Provincial Reserve for that year.

(True Extract.)

Colonel, R.E.,
Ag. Secy. to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle.
„ Examiner of Public Works Accounts.

Exd. E. C. Shunker.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1879) Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
FOURTH CIRCLE,
&c., &c., &c.

Dated March 12th.

Issued

Recd. Encl.

G. O., 13th March 1879, No. 751 W.

MARCH.

Nos. 157-158

Coonoor Ghat Storm Repairs.—Appropriates from the Provincial Reserve the additional sum of Rupees 450 for the—.

Rg. No. 2805
28-2-79

Executive Engineer's Office
Ootacamund 26th February 1879

751/3

No. 75

From,

The Executive Engineer
Nilgiri Division

To,

The Superintending Engineer
4th Circle
Coimbatore

Sir,

I have the honor to acknowledge your No. 2028/46 dated the 17th Instant, and beg to offer my apologies for having so submitted the Estimate for the Coonoor Ghaut Storm Repairs without fuller explanation than that contained in my letter No. 43 of the 12th Instant. I erroneously thought a long explanation unnecessary, as I understood you had visited the Ghaut during the rainy season: I also fear my habits as late District Engineer induced me to overlook the necessity of earlier and fuller reports on the subject.

2. I beg now at your request to furnish full

full particulars, which I trust you will be pleased to consider satisfactory.

3. The annual maintenance on the Coonoor New Ghaut (Rs 9680) was fully expended on

66415 cubic feet blue metal broken including blasting boring &c.
392490 square feet metal spread raked &c.
22. Bridges and 143 drains cleared of vegitation
6. Cooly lines rebuilt.
100½. cubic yards Revetment built.
301½ cubic feet of stone and mortar for parapets.
1050 square feet painting parapets.
5560 Running yards catch drains cleared and 2 new drains built besides cutting of bushes &c.

From April to August I had the advantage of Lieutenant C. B. Henderson R.E.'s careful and personal assistance. Two thirds of the allotment (Rs 6554) was expended by him.

4. This year has not it is true been a very exceptional year for land slips. But the following accidents have occurred:—

Rain fall September 1st Inches 3.34; 9th Inches 1.26; 24th Inches .88 which caused slips.

Rainfall October 6th Inches .90; 22nd Inches 1.83 which caused slips.

Rainfall November 9th Inches 2.65; 23rd 2.20; 26th 1.62 — Ghaut blocked for 8 hours near the 5th Mile besides numerous smaller slips.

Rain fall December 10th. Inches 1.93; Ghaut blocked for 4 hours near 14th Mile, besides smaller slips.

26th 1.40; Ghaut blocked for 8 hours near the 6th Mile, besides smaller slips.

757/4

27th 1.70.
28th 0.80.

In the early part of January rain fell causing slips.

Although heavy slips were quickly partly cleared so as to allow traffic to pass, and thus the road was not allowed to be completely blocked for more than 8 hours; still the entire clearance was necessarily a very much longer operation.

5. The entry in the Estimate for stone removal comprises the blasting of some very large rocks, which have been slipping for 2 or 3 past years and this year came down, a little further. Their removal is suggested to prevent their falling on to the road next year or at any earlier time to the possible danger of passing traffic. If you wish these items to be excluded, the Estimate

can

can be reduced by Rs 300; for I find through delay the work has not been begun as I thought it had. I therefore beg to submit an alternative Estimate amounting to Rs 1450.-.- On examining the Estimate you will find the following to comprise the largest rocks:—

	feet		feet		feet		Cubic feet		Cubic yards	
1st Mile	13	×	4	×	9	=	468	=	17	x
4th — " —	10	×	8	×	5	=	400	=	14½	
5th — " —	9	×	7	×	6	=	378	=	14	
" — "	15	×	12	×	9	=	1620	=	60	x
" — "	8	×	7	×	7	=	392	=	14½	
" — "	15	×	15	×	5	=	1125	=	41½	x
" — "	8	×	7	×	5	=	280	=	10⅓	x
6th "	10	×	8	×	8	=	640	=	24	x
7th "	14	×	6	×	10½	=	882	=	32½	x
11th — " —	14	×	14	×	6	=	1176	=	43½	x
15th — " —	10	×	8	×	6	=	480	=	14	

Of these 11 rocks I have checked (in some cases necessarily roughly as the rocks had already been removed) 7 as marked with a red cross. The Estimate measurements were in some

Cases

cases made over the rocks after being blasted and are necessarily somewhat speculative. But the rate of Rs 2 per cubic yard is less than the ordinary divisional rate which is Rs 3½. Moreover some of the blasted rock was broken up for metal which was spread over places injured by slips &c: this amounted to 16 cubic yards, and its cost is included in the rate for rock removal.

6. Regarding the check that I have exercised on this work I beg to inform you that all payments have been made by me. None have been made by the Overseer in charge. On the 3rd Instant I came up the Coonoor Ghaut very leisurely with the draft Estimate in my hand and personally checked as far as it was possible the items on the 14th, 11th, 7th, 6th, 5th, and 2nd Miles reckoning from Coonoor. I have every reason to believe the Estimate is a correct one; and such

Expenditure

expenditure as has been incurred to have been well laid out.

7. I have not thought it proper to report this matter to you earlier because I understood you had visited the work, because I had already informed you of the probability of such expenditure being needed, and because I understood from your draft budget that at least Rs 1000 would be available. I waited until all chance of further slips became improbable before sending you one complete Estimate for the whole work. If I have erred in judgement I respectfully beg to be excused.

8. The reason for carrying out the work in part in anticipation of sanction was the necessity of allowing traffic to pass up and down the Ghaut. Had the blocks not been partially cleared and the road made safe I respectfully submit I should have involved myself and (and indirectly involved Government) in claims for damages by 75 Toll Contractors 6 Carriers and travellers in general.

9. As only 1000 Rupees are available in the current year I can restrict the actual expenditure to that sum. But at least Rupees 453 must be provided next year to cover the balance of the smaller estimate; liabilities to that amount having been incurred.

10. I beg to append a detailed Statement of the expenditure on this work.

11. In reply to your para 7 I have the honor to report that similar emergent expenditure has been incurred on the Hotrighurry Ghaut. This has been reported to the President of the Local Fund Board and an Estimate forwarded for the approval of the Board.

12. Apologizing for having, I fear needlessly, caused all this correspondence

I

I have the honor to be
Sir
Your most obedient Servant
J. E. Morant. Major R.E.
Executive Engineer

No. $\frac{671}{153}$

Forwarded to the Chief Engineer with a request that Government may be asked to grant the Rs 1000 applied for in the revised Budget submitted on the 24th December /78 for the emergent storm repairs to the Coonoor New Ghaut and that if possible an additional amount of Rs 450 may be given.

It is to be regretted that the Executive Engineer has completed this work and made no report regarding it until February. The work done was very necessary and had it been reported the undersigned certainly would have ordered it to be done in anticipation of sanction reporting the same and requesting allotment.

Coimbatore 6th March 1879

Allen W. Wright
for Supg. Engr. 4 Circle

From,
The Supdg. Engineer
The Executive Engr.
Nilagiri Divn.
4 Circle
To
The Supdg. Engineer
The Superintending Engineer
4th Circle
PWD Coimbatore

No. 75
Dated 26th }
Recd. } February 1879
Enclo. 2

Subject
Submits detail explanation on the Estimate for Storm Repairs to Coonoor Ghaut and asks for allotment

G.O. 12-3-79 No 751 W.

From The Supdg. Engineer
4th Circle

To The Chief Engineer
P.W. Deptt

No $\frac{671}{153}$

6th March 1879 –

Endorsement on the letter of Niligiri Executive Engr. Submitting detail explanation on the Estimate for Storm repairs to Coonoor Ghaut. asks for allotment –

Civl. Works

No. 751 W Public Works Department. $\frac{75}{8}$

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 12th March/79

Read the following :—

From

The Supdg. Engr. Fourth Circle } (K.E. No. $\frac{671}{153}$ d/6th March/79)

To be noted in [illegible] Budget [illegible] the amount to be [illegible] shewn from the [illegible] [illegible]

The Government observe that provision to the extent of Rs 1000 has been made in the revised Budget for 1878-79 for the Coonoor Ghat Storm repairs. The additional sum of Rs 450, now applied for, will be provided from the Provincial Reserve for ~~1878-79~~ that year

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Supp: English & Marathi
for P W Dept

Ind. Dept. 13-3-79

17 S C Dept 7/4/79

Cv. 2035

Govt. of {1879} Madras.

PUBLIC WORKS.

To

14-3

Dated

Issued

Recd. Encl.

G. O., 12 Mar 1879, No. 751 W

Nos. 157-158

Coonoor Ghat storm repairs Appropriates from the Provincial Reserve the additional sum of Rs. 450 for the →