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(2) Date of repair 17.8.87  
(3) Initials of the Referencer Law

# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. W. DEPARTMENT

8600-1

|          |          |        |
|----------|----------|--------|
| G.O. No. | 251-W    | Press. |
| B.P. No. |          | Mis.   |
| Dated    | 2-2-1885 | -198-  |

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.

Civil Works.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 17th January 1885, No. 17 E.W.---

With reference to O.O. No. 2457 W., dated 6th October 1884, I have the honor to submit two plans and an estimate, amounting to Rs. 11,380, for improvements to the Kōtagiri ghāt road in the Nāgiri district.

2. The amount of estimate has now been increased by Rs. 870 for making the rough stone parapet walls from  $1\frac{1}{2}$  to 2 feet high.

3. Under the explanations given by the Local Fund Engineer in his letter \* and in the revised report, dated 15th December 1884, regarding the scarp along the line of road, I recommend that the estimate may be sanctioned with a view to the early commencement of the work, for which Government seem to have granted a sum of Rs. 1,000.

4. The letter from the President of the Local Fund Board, Nāgiris, to the Board of Revenue, is herewith sent.

ORDER—dated 2nd February 1885, No. 251 W., Public Works.

The estimate, amounting to Rs. 11,380, for improvements to the Kōtagiri ghāt road, is sanctioned.

2. This sanction has been registered as Local No. 50 W. of 1884-85.

(True Extract.)

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

To the Board of Revenue, with six enclosures.  
" Superintending Engineer, IV Circle.  
" Financial Department.

Exd. A. Grubert  
Spare Copies

BUILDINGS AND ROADS:  
CIVIL WORKS.

Govt. of 1885: Madras.

PUBLIC WORKS.

Dated February, 2nd.

Road.

Incl.

G.O. 2nd Feb. 1885, No. 251 W.

FEBRUARY.

Kotagiri Ghat Road

Estimate for improvements to the —, sanctioned.

370.

251

S.E. The forwards an Estimate  
of Rs. 10510 for improving the  
Kotagiri Ghat Road.

The work provided is merely  
widening and building parapets  
in places.

The road is to be widened to 17 ft.  
where the operation is in earth,  
and to 13 ft. in rock.

I need hardly observe that 13 ft.  
is an altogether insufficient width  
for any mountain road worthy of  
the name, but of course money  
not being available there is effectively  
no help for it but to improve a little  
on the existing width.

S.E. considers that the eastern  
scarps proposed are too steep, and  
that they should not be less than  
as vertical to one horizontal.

I would remark that on many  
places where there are scarps which  
stand fairly well at very much  
steeper angles than that of 45° seem  
wounded. There are others of course which  
keep slipping at almost any practicable  
angle, however flat. Experience of the  
past & actual inspection of the existing  
scarps would be the only safe guide  
on which to base a definite ruling on  
the point. I myself would accept  
generally the Scarps shown in sections.

In view of the instance pointed by  
S.E. (Section No 6, Road) it seems  
to me an important question to ask whether the  
scarps to 1 in 1. If it will stand  
as shown, a worst case would be  
then remedied.

S.E. reports that there should  
be more perfect walls and that

there should not be less than  
2 ft. higher than incident. I  
would go further & recommend  
that they should be 3 ft. high.

There is a question in some places  
size, however, considerable over expansion  
sitting, if 12 ft width of roadway is  
to be the minimum.

It is clearly wrong to have such  
sections as 16, 17, 18, 25, 29, 44,  
46, 49, unprovided with protection.

Ref

29-7-84

<sup>3</sup>  
251  
I do not gather from these papers  
whether provision is made for  
catch drains above the road.  
The point should be ascertained,  
as without that essential protection  
I am unwilling to approve the  
proposals.

The point noted by S. E. in his  
para 3 depends mainly on whether  
such protection is to be given.  
Without efficient catch drains,  
the proposed earthen scarps will  
certainly not stand, — with  
them they may stand.

I entirely concur with S. E.  
remarks in his para 4.

W.  
31-7-84

4  
251

Sanctuary  
C.B.  
71.1.15

Current No. 6047

Letter No. 240

Dated the 18<sup>th</sup> July 1884

From the S.E. IV Circular

## NOTE OF REMARKS.

1. The accompanying estimate provides for improving the Kotagiri-Shal road in the Nilgiri District. The estimated amount is Rs. 1950. Two sheets of cross sections have been submitted.

2. The work consists in widening the road to 14 feet where it passes through earth, and to 13 feet where it passes through rock in its course through the 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> miles, and in providing parapets for certain sections of that length.

3. S.E. IV. objects that the proposed earthwork is too steep, and

To check the section (S.E. IV. 10. 11) which you refer to. I cannot find them.

S.M.

Cross section No. 4 in the 7<sup>th</sup> mile gives a proposed slope of 4 to 2 (1 to 3), and cross section No. 5, also in the 7<sup>th</sup> mile, shows the proposed slope to be 8 to 21 (1 to 2<sup>5</sup>/<sub>4</sub>). The measurements of bases are not given — a scale or compass must therefore be used — Shaded marked No. 4 and 5 in pencil.

R.S.V.

25/7/84

T. are there the two slopes the S.E. refers to, do you think? It would be impossible in No. 6 to give the slope of 1 to 1 recommended, without cutting away the mountain side. So it appears to me.

S.E. IV. 10. 7

That the parapets, which though sufficiently high, are not of sufficient height, and that in steep places should be built higher, in accordance with the - an examination of the results of measurement the cross sections shows that the estimate and S.E.'s objections to the whole of sections has founded. From two being counter signed by cases cited by S.E. it is the President of the may be seen in the first L. & Board that the slope allowed the earthen scarp is 1 to 2 7/8 (8 to 31), and in the second, 1 to 3 (4 to 12). S.E. is of opinion that the earthen scarp should not be steeper than 1 to 1 the angle of inclination 45° and it would be well if this decision were adopted.

4. With reference to the parapets, the cross sections show them to be absolutely necessary at places for which no such provision has been made.

5. It may be noticed that some of the calculations

28<sup>th</sup> July/84  
BA

No 17  
Supy Engrs Office 4<sup>th</sup> Circle  
Gumkhar 17<sup>th</sup> January 1885

From

8/95

The Superintending Engineer  
II<sup>nd</sup> Circle.

To

The Chief Engineer  
Public Works Deptt.

Sir,

Enclosures 6

2 Plans

1 Estimate

2 Letters

1 Review Report

With reference to G.O. No 2457 W dated 6<sup>th</sup> October 1884 I have the honor to submit two plans and an estimate amounting to Rupees 11,380 for improvements to the Katagiri ghant road in the Nilgiri District.

2. The amount of estimate has now been increased by Rs. 870 for making the rough stone parapet walls from 2 to 2 feet high.

3. Under the explanations given by the Local Board Engineer in his letter and in the revised report

No 276 of 1884

report dated 15<sup>th</sup> December last  
regarding the scarps along  
the line of road I recommend  
that the estimate may be  
sanctioned with a view to  
the early commencement of  
the work, for which Government  
seem to have granted a sum  
of Rs 1000.

The letter from the President  
of <sup>the</sup> Local Fund Board, Nilgiris,  
to the Board of Revenue is  
herewith sent.

I have the honor to be

Sir,

Your most obt. Servt

F. B. P. - Colonel. R. B.

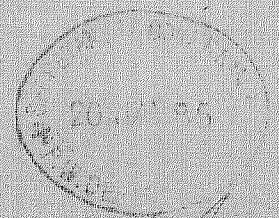
Superintending Engineer

to the Govt.

No 92 Wd/12. 1. 84  
 " 125 Wd/14. 1. 84  
 " 140 Wd/17. 5. 84  
 " 418 Wd/1. 8. 84  
 " 2457 Wd/6. 10. 84

From  
 The Supg. Engineer  
 IV Circle

Dated 17<sup>th</sup>  
 Recd 19<sup>th</sup> } January, 1885  
 Recd



No 17  
 E. M.

Enclosure 6.

Notagiri ghat road  
 in the Nilgiri District

Submits Plan & estimate for  
 Rs. 11,380 for improvements  
 to the — and recommends  
 the sanction of the estimate  
 with a view to the early com-  
 mencement of the work

No 251. W  
 8  
 951

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 2<sup>nd</sup> Feb'y /85  
 Read the following

From

The Supg. Engrs IV Circle (H.O. No. 1785 of 17<sup>th</sup> Jan'y /85)

The estimate  
 amounting to Rs. 11,380,  
 for improvements to  
 the Notagiri Ghat road,  
 is sanctioned.

2. This sanction  
 has been registered  
 as Local No. 50 of 17

To the Hon. Secy.  
 with 6 enclosures

a L. & E. IV Circle

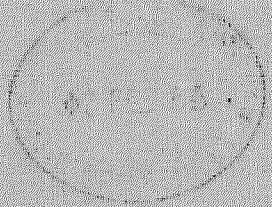
a. Encl. Dept.

(Chief Secy. for  
 Counter initials)

Cd.  
 27.1.85

W  
 27.1.85

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251



1844  
May

445

Code of 1880 Madras.

PUBLIC WORKS.

Serial

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Year

1880

Code of 1880 Madras.

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Code of 1880 Madras.

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