M.R.O. 1—77,006—8-6-37.

(1) Number of pages

(2) Date of repair 2-9-40

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Financial DEPARTMENT.

G.O. No. 392 Press / Mis.

183-185

Dated 15-2- 1875.

11/12

Not to be folded or roughly handled

Local Fund—Roads.

Read the following papers :—

No. 183. Proceedings of the Board of Revenue, dated 25th January 1875, No. 154.

Read the following letter from J. HOPE, Esq., President of the Local Fund Board, Kurnool, to J. GROSE, Esq., Secretary to the Board of Revenue, dated 15th December 1874, No. 472 :—

I have the honor to forward, and to request the sanction of Government may be obtained for, an estimate,* amounting to Rupees 24,060, for improving the nine miles of the Nandikanamah ghaut-road from the 69th to the 77th mile stone on the trunk road No. VII. The estimate was approved by the Local Fund Board.

* 2 Plans (by banghy).
1 Detailed Estimate.
1 Abstract of Estimate.
1 Specification.

2. From the report of the District Engineer (copy of which is herewith sent), it will be observed that the work is emergently necessary, as the present state of that portion of the ghaut is very unsatisfactory, and is almost impassable for cart traffic owing to the late heavy rains. The estimate provides for a proper system of drainage.

3. This is separate from the estimate for Rupees 17,100, sanctioned by Government in their order, No. 1,741, dated 11th June 1867, Public Works Department, and for which a sum of Rupees 4,000 is allotted in the current year's Budget (*vide* Item No. 5, Part I).

Enclosure No. 1.—Letter from District Engineer to President, Local Fund Board, dated 10th November 1874, No. 80.

Enclosures Nos 2 and 3.—Plans.

Enclosures Nos. 4 and 5.—Estimates.

Enclosure No. 6.—Specification Report.

The estimate for improving the trunk road and constructing tunnels and catchment drains from the 69th to the 77th mile over the Nandikanamah ghaut, at a cost of Rupees 24,060, will be submitted for the orders of Government after reference to the Chief Engineer.

2. The work is evidently necessary.

(A true Copy and Extract.)

(Signed) H. E. STOKES,
Acting Secretary.

Referred to the Chief Engineer for remarks.

(Signed) J. STURROCK,
Acting Under Secretary.

1*st February* 1875.

No. 154.

No. 184. *Note by the Chief Engineer.*

The estimate of which my opinion is required is made up of the following items, *viz.* :—

		Rs.
1.	Rock cutting	1,856
2.	Reforming road	1,061¼
3.	Metalling	2,430
4.	Gravelling	7,050
5.	Superintendence and sundries on the above...	1,237¾
6.	29 1-vent drains, at Rupees 115	3,335
7.	2 ,, ,, ,, 150	300
8.	4 2-vent ,, ,, 180	720
9.	2 ,, ,, ,, 230	460
10.	1 ,, ,, ,, 310	310
11.	50 catchment drains of one vent, at Rupees 106	5,300
	Total	24,060

as shown more in detail in a tabular abstract appended.

2. Items 1 to 5 and 11 are those which should be carried out first on an allotment, say, of Rupees 10,000. The specification as to No. 3 should state more distinctly the thickness of metalling. From the estimate I infer it to be 4½ inches over a width of four yards ; the rate seems low. Catchment drains of the dimensions proposed, three feet high by two feet wide, are built on the Coonoor ghaut and Neilgherries of rough stone without mortar for one-fifth the charge of Rupees 106 made in this estimate ; and I have no doubt that equally good work will be done by the stone Wudders of Kurnool, by contract, at Rupees 20 a drain. And the saving of time in construction of these most essential under-drains is of more importance than the money saving of Rupees 4,300 which I propose. The gravelling of the first season may be limited to the miles on which no metalling is intended to be done.

3. Very great economy of time and money may also, in my opinion, be judiciously effected in items 6 to 10, by limiting the use of stone in chunam to the piers only of the 38 longer drains, the rest being of dry stone pointed. In so feverish a locality to which the labor comes daily from a distance, it is of great importance to simplify the work as much as possible ; and the small dimensions of the drains in question safely admit of the expedient I propose. The money saving may be estimated roughly at one-half.

4. Pending final revision, therefore, I recommend that the estimate be passed in this shape—

	Rs.
Items 1 to 5	13,635
Do. 6 to 10	2,565
Do. 11	1,000
Total ...	17,200

FORT ST. GEORGE,
6th February 1875.

(Signed) G. W. WALKER, Colonel, R.E.,
Chief Engineer, D.P.W.

To the Chief Secretary to Government, Public, &c., Departments.

No. 185. ORDER THEREON, 13th February 1875, No. 322.

Pending final revision of the estimate, expenditure up to Rupees 17,200 is sanctioned as recommended in the concluding paragraph of the Note by the Chief Engineer.

(True Extract.)

Acting Chief Secretary.

To the Board of Revenue, with Enclosures.
,, Public Works Department.
,, Accountant-General.

Exd. F. R. Bantleman.

Govt. of Madras

FINANCIAL.

To

THE BOARD OF REVENUE,

&c., &c.,

Dated February, 13*th*.

Read.

G.O., 13*th February* 1875, *No.* 322.

FEBRUARY.

Nos. 183—185.

Kurnool Circle.—Pending final revision of the estimate, expenditure up to Rupees 17,200 sanctioned for improving the trunk road over the Nandikanamah ghaut.

Proceedings of the Madras Government, Public Works Department,
11th June 1867.

No. 218. Read the following letter from the Superintending Engineer, 3rd Division, to the Secretary to Government, Public Works Department, dated Camp at Hoovinhadagally, 27th May 1867, No. 544:—

1. I have the honour to submit, for the sanction of Government, an estimate of Rupees 17,100, for completing the 68th and 69th miles of the road between Kurnool and Cumbum, about midway across the Nundy Canama pass.

2. On the accompanying survey of this portion of the road the line coloured lake is the line at present taken by carts, as they are unable to pass over the viaduct, in consequence of about one-third the distance (114 yards) between A. and B. having slipped down, leaving only a path.

3. For the greater part of this distance between B. and C., the road is very narrow, not admitting of two bandies passing each other, and so it is provided to make the road five yards broad.

4. These two descriptions of work are the principal items in the estimate.

Rupees 1,650.
" 930.

There is also an item for metaling the two miles, and for improving a well just below where the present track turns off, and where the people usually water their cattle.

5. In March 1862 an estimate of Rupees 4,540 was sanctioned for, I believe, re-building the revetment which has again fallen. Mr. Bance states that, when he first inspected the Nundy Canama Ghaut in November 1863 he found the revetment had fallen, as it is now; the Mr. Ellis, who was [illegible] time, told him the revetment had fallen two or three times, and had been always re-constructed from the maintenance grant; but, as at that time the viaduct was not completed, he put a stop to all expenditure in re-building it. Mr. Bance also informs me that the accounts of expenditure are so lumped together, that it is impossible to pick out the items in order to prepare a comparative Statement.

6. As this portion of road over the viaduct is entirely useless at present, I trust that sanction may be granted, and funds allotted at an early date.

7. I also beg to submit a supplemental Estimate and comparative Statement for completing the chuttrum at Kistnamshettypully, at the east end of the Nundy Canama Ghaut. From the remarks on the comparative Statement you will observe that the actual expenditure cannot be shown, as it was mixed up with the expenditure on other works on the ghaut.

Rupees 770.

No. 219. ORDER THEREON, 11th June 1867, No. 1,741.

CIVIL WORKS, No. 29.

1. The Government approve of the estimate of Rupees 17,100 submitted by the Superintending Engineer of the 3rd Division for completing the 68th and 69th miles of the road between Kurnool and Cumbum, but no funds can at present be spared for the work, nor are they likely to be available for some time.

Proceedings of the Madras Government, Public Works Department,
11*th June* 1867.

2. The estimate of Rupees 770 for the completion of the chuttrum at Kistnamshettypully, alluded to in paragraph 7, will be referred to the Revenue Department.

(True Extract.)

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

To the Superintending Engineer, 3rd Division.
,, Accountant General.
,, Controller of Public Works Accounts.
,, Revenue Department, with Plan, Estimate, and comparative Statement.

Exd. S. T. Augustin.

11 Proceedings of the Board of Revenue 25th January 1876 No 154 through the Public Works Dept.

No 154.

The Estimate of which my opinion is required is made up of the following items viz:-

			Rs
1.	Rock Cutting		1856
2.	Reforming Road		1061 1/4
3.	Metalling		2430
4.	Gravelling		7050
5.	Superintendence & Sundries on the above		1237 3/4
6.	29, 1 Vent Drains at Rs	115	3335
7.	2, do do	150	300
8.	4, 2 Vents do	180	720
9.	2, do do	230	460
10.	1, do do	310	310
11.	50 Catchment Drains of 1 Vent at Rs	106	5300
		Total Rupees	24060

as shewn more in detail in a Tabular Abstract appended.

Items 1 to 5, and 11, are those which should be carried out first, on an allotment say of Rs 10,000. The specification as to No 3 should state more distinctly the thickness of metalling. From the Estimate

I infer it to be 4½ inches over a width of 4 yards; the rate seems low. Leatchment Drains of the dimensions proposed, 3 ft high by 2 ft wide, are built on the Coonoor Chaut and Neilgherries of rough stone without mortar, for one fifth the charge of Rs 106 made in this Estimate. And I have no doubt that equally good work will be done by the Stone breakers of Kunnoor, by Contract at Rs 20 a drain. And the saving of time in construction of these most essential under-drains, is of more importance than the money saving of Rs 4,300 which I propose. The gravelling of the first season may be limited to the miles on which no metalling is intended to be done.

Very great economy of time and money may also, in my opinion be judiciously effected in Items 6 to 10,

by limiting the use of stone in Chunam to the piers only of the 38 longer drains the rest being of dry stone pointed. In so feverish a locality, to which the labour comes daily from a distance, it is of great importance to simplify the work as much as possible; and the small dimensions of the drains in question safely admit of the expedient I propose. The money saving may be estimated roughly at one-half.

Pending final revision therefore I recommend that the Estimate be passed in this shape.

Items 1 to 5	Rs	13635
do 6 to 10	"	2565
do 11	"	1000
Total	Rs	17,200

Fort St. George
6th Febry/75

Commanding Engineer
Chief Engineer N.C.D.

To
The Secretary to Government
Public & Genl Depts. with Ch No. 756
and 6 Enclosures.

Local Fund Circles

Communication

New Work.

Abstract Estimate for Trunk Road over Nandikanamala Ghaut in Kurnool District.

	Rock Cutting Referring Road for ofsets	Metalling	Granelling	Superintendence	
29. 1	Trunk Drains at Rs 115				
2. 1	Do	" 150			
41. 2	Do	" 180			
2. 2	Do	" 230			
1. 3	Do	" 310			
62½ Miles		125	112½	450	450
10 "	"	"	165	660	660
1 1/2 "	"	65	165	660	660
2 3/4 "	"	1470	165	660	660
3 3/4 "	"	186	165	"	1650
1/4 "	"	"	123¾	"	990
1/5 "	"	"	165	"	660
1/6 "	"	"	"	"	1320
		1856	1061¼	2430	7050

575	150	360	"	"				
345	"	180	460	"				
575	"	"	"	"				
575	150	"	"	310				
111¼	460	"	"	"	"			
80	230	"	180	"	"			
135	"	"	"	"	"			
1235¾	3335	300	720	460	310			

18,760
5,300
24,060

50 Drains 68" to 74" Miles

Engr.
4.2.75

No. 154.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 25th January 1875.

Read the following letter from J. HOPE, Esq., President of the Local Fund Board, Kurnool, to J. GROSE, Esq., Secretary to the Board of Revenue, dated 15th December 1874, No. 472:—

I HAVE the honor to forward, and to request the sanction of Government may be obtained for, an estimate,* amounting to Rupees 24,060, for improving the nine miles of the Nandikanamah Ghaut Road from the 69th to the 77th milestone on the Trunk Road No. VII. The estimate was approved by the Local Fund Board.

* 2 Plans (by Banghy).
1 Detailed Estimate.
1 Abstract of Estimate.
1 Specification.

2. From the report of the District Engineer (copy of which is herewith sent), it will be observed that the work is emergently necessary, as the present state of that portion of the ghaut is very unsatisfactory, and is almost impassable for cart traffic owing to the late heavy rains. The estimate provides for a proper system of drainage.

3. This is separate from the estimate for Rupees 17,100, sanctioned by Government in their Order, No. 1,741, dated 11th June 1867, Public Works Department, and for which a sum of Rupees 4,000 is allotted in the current year's Budget (*vide* Item No. 5, Part I.)

ENCLOSURE No. 1.—Letter from District Engineer to President, Local Fund Board, dated 10th November 1874, No. 80.

ENCLOSURES Nos. 2 and 3.—Plans.

ENCLOSURES Nos. 4 and 5.—Estimates.

ENCLOSURE No. 6.—Specification Report.

THE estimate for improving the trunk road and constructing tunnels and catchment drains from the 69th to the 77th mile over the Nandikanamah Ghaut, at a cost of Rupees 24,060, will be submitted for the orders of Government after reference to the Chief Engineer.

2. The work is evidently necessary.

(A true Copy and Extract.)

Acting **Secretary.**

To the Acting Chief Secretary to Government, Financial Department, with six enclosures.
,, the President of the Local Fund Board, Kurnool Circle.
,, the District Engineer, Kurnool.
,, the Controller of Public Works Accounts,

Exd. W. H. French.

P.W.G.O. Nos. 218-219 Jany 75
Fort St. Geo. 15 May 74 133-134 OC

Financial (1875) Deptt

1875.

Board of Revenue,

MADRAS.

PROCEEDINGS, 25TH JANUARY 1875, No. 154.

Dep. 28 Jan. 1875
Encl. 6

No. 196

Received 29 Jany 1875

JANUARY.

No. 154.

Trunk Road—over Nandikanamah Ghaut in Kurnool District.—Estimate for improving—and constructing tunnels and catchment drains from 69th to the 77th mile, at a cost of Rupees 24,060, submitted for orders of Government after reference to Chief Engineer.

Recd 28th Aug Explanation Pa
Enclds.

Mr. Irv.

R

Submitted
1st Feb 75

P. W. 1875 Dept.

No. 756.

From.

The Sy. Under Secretary
to Govt. Public Wks. D.

Dated 1st } February 1875.
Rec'd 3rd }

Enc. 6.

Referring to the
Chief Engineer for re-
marks, Proceedings of the
Bd. of Revenue submitting
an Estimate for improve-
ments to Trunk road and
constructing tunnels and
catchment drains from
the 69th to the 77th miles
over the Nandikanamah
Haut at a cost of Rs.
24,060 in the Kurnool Dt.

Bd. of Revenue
with Enclo.
Dr. Deane
Rect. Sec.
1875
2572

15 Feb 1875 522

Enclosing Final Opinion of the
Bd. of Revenue to which is attached
a Memorandum explaining the
circumstances which have led to
the present proposal for the
improvement of the Trunk Road
in question.

C 14/2

Govt. of {1875} Madras.

Financial

G. O., 13 February 1875, No. 322

Nos. 183-5

Tanjore Circle - Revising final revision of the estimate & expenditure up to Rs. 17200 sanctioned for improving the Trunk road over the Vandikaranah Chaut.