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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D DEPARTMENT

G.O. No.	245 →	Press.
B.P. No.		Mis.
Dated	20-1-1879	197

Not to be folded or roughly handled

A. Mani

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

20th January 1879, No. 245 W.

Buildings and Roads.

Civil Works.

Read the following papers:—

No. 198. Proceedings of the Board of Revenue, dated 22nd November 1878, No. 3,112.

From W. H. COMYN, Esq., President of the Local Fund Board, Canara Circle, to the Acting Secretary to the Board of Revenue, dated Pootoor, 31st October 1878, No. 1,035.

I HAVE the honor to submit, for the sanction of Government, a plan and revised estimate, amounting to Rupees 22,700, for the construction of an iron girder bridge across the Feringapett river on the 9th mile of Road No. 1 from Mangalore to the Mysore Frontier *via* the Sampaje Ghat, together with a comparative statement showing the variations between the original and the revised estimates, and a copy of the Resolution of the Local Fund Board, dated the 29th August last, No. 23, approving the revised estimate. Copy of the District Engineer's letter (No. 44, dated 31st July 1878) forwarding the same is also enclosed.

2. The original estimate for this bridge, amounting to Rupees 15,200, was sanctioned in G.O., Financial Department, 21st May 1875, No. 1,197. The present estimate is therefore Rupees 7,500 in excess of the sanctioned estimate.

3. The excess is chiefly owing to additional work of sinking wells of masonry built in by hydraulic mortar not provided for in the original estimate; these wells are estimated to cost Rupees 3,840. Under iron work there is an excess of Rupees 1,894. The present estimate provides for the actual cost of the iron work ordered from the Public Works Stores and Workshop, Madras. The District Engineer states that the iron work is now ready to be shipped to Mangalore. The other items of increase are of minor importance and do not call for special remarks.

4. The amount of the original estimate, viz., Rupees 15,200, having already been allotted, the net amount requiring provision is Rupees 7,500. I shall shortly point out the source whence this amount can be met. In the meantime I request that the Board of Revenue will be pleased to obtain the early sanction of Government to the revised estimate herewith submitted.

ENCLOSURE No. 1.

From Major H. SMALLEY, R.E., District Engineer, South Canara, to the President of the Local Fund Board, Canara Circle, dated Mangalore, 31st July 1878, No. 44.

I HAVE the honor to forward a revised estimate for the construction of the iron girder bridge at Feringapett together with a comparative statement of excesses and savings on the original estimate by sub-heads.

2. The first item that demands notice is the addition of wells under the foundations of the abutments of the bridge, and this is the heaviest item of excess over the original estimate, viz.,

Rupees 3,840. The necessity for wells was pointed out by Mr. Lawford to the Chief Engineer in October 1875 and March 1876. Mr. Pringle pointed out in his letter, No. 79, of 9th January 1877, that no savings could be effected in other parts of the estimate to meet the cost of these wells as anticipated by Mr. Lawford. The cost of the wells is really more than Rupees 3,840 as some of the expenditure on their construction has been charged to excavation, baling, and contingencies indiscriminately, but the details cannot now be traced.

3. The next item that calls for notice is earthwork in excavation on which an excess of Rupees 302 is shown in the revised estimate. I can get no proper explanation of this, but it is surmised that is owing to the introduction of the wells, but in any case this item was evidently under-estimated.

4. The next item to be noticed is the iron work of the bridge, and this is the next heaviest amount of excess over the original estimate after the wells, viz., Rupees 1,894; in fact, these two items together make up nearly the whole of the excess. The cost now shown is the actual amount received on the 2nd instant. The iron work is ready to be shipped to Mangalore as soon as weather permits.

5. The next item to be noticed is baling, excess Rupees 640 due to the introduction of wells, evidently under-estimated in any case.

6. The next item "fitting and revetting" I have increased from Rupees 830 to Rs. 1,000 or Rupees 170 in excess, as from personal inspection I have convinced myself that the amount originally allowed is not sufficient for such high approaches as this bridge has.

7. The next item "carriage, &c." is increased from Rupees 1,000 to Rupees 1,500 or Rupees 500 in excess of the original and has been calculated thus—

	RS.
(a.) As per Madras Workshop bill for carriage from Madras.	1,005
(b.) Landing at Mangalore and carriage to site	193
(c.) Putting up	300

8. The last item "Contingencies" is allowed at 7½ per cent. on the total of the estimate as before and amount to Rupees 459 over the original. A good deal charged to contingencies ought really to have been debited to sub-heads of the estimate, but it is not found practicable to alter the charges now. Rupees 1,077-14-10 have actually been spent on contingencies to the end of April 1878. On the estimate being sanctioned Rupees 75,00 will have to be provided in addition to current year's allotment, Rupees 5,609.

ENCLOSURES Nos. 2 to 4.—Plans.

ENCLOSURES Nos. 5 and 6.—Estimates.

ENCLOSURE No. 7.—Specification Report.

ENCLOSURE No. 8.—Comparative Statement.

ENCLOSURE No. 9.—Extract from Proceedings of Local Fund Board.

THE revised estimate, amounting to Rupees 22,700, for constructing an iron girder bridge across the Feringapett river on the 9th mile of Road No. 1 from Mangalore to the Mysore frontier *via* Sampaje Ghat, is submitted for the sanction of Government.

2. The present estimate is Rupees 7,500 in excess of the original one for Rupees 15,200, sanctioned in G.O., Financial Department, dated 21st May 1875, No. 1,107, and the cause of the excess is explained in the District Engineer's letter, dated 31st July 1878, No. 44.

3. The work appears as Item No. 3 with an allotment of Rupees 5,609 in the list of Incomplete works of 1877-78, sanctioned in Board's Proceedings, dated 15th June 1878, No. 1,634.

(True Copies and Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

No. 198-A. Proceedings of the Board of Revenue, dated 30th December 1878, No. 3,520.

From W. H. COMYN, Esq., President of the Local Fund Board, Canara Circle, to the Acting Secretary to the Board of Revenue, dated Mangalore, 29th November 1878, No. 1,112.

In continuation of my letter, No. 1,035, of the 31st October 1878, I have the

With a comparative statement.

honor to submit, herewith, for the sanction of Government, a supplemental estimate, amounting to Rupees 24,700, for the construction of an iron girder bridge across the Feringapett river on Road No. 1 from Mangalore to the Mysore frontier *via* the Sampaje Ghat, together with a copy of the Local Fund Board's resolution, dated the 25th instant, approving it.

2. A revised estimate for this bridge, amounting to Rupees 22,700, or Rupees 7,500 in excess of the amount of the original estimate (Rupees 15,200), sanctioned in G.O., Financial Department, dated 21st May 1875, No. 1,107, was submitted for sanction with my letter, No. 1,035, above quoted, and the necessity for the revision of the estimate and the increased expenditure was explained therein. The amount of the estimate now submitted is in excess of that of the revised estimate by Rupees 2,000, which the District Engineer explains is owing to the cost of the iron flooring plates not having been included therein under a misconception of the items contained in the bill received from the General Superintendent of the Public Works Stores and Workshop at Madras. A copy of the District Engineer's letter, No. 79, of the 14th instant, explaining the cause of this omission at length, is enclosed for the information of the Board of Revenue and Government.

3. As the flooring plates are indispensably required to complete the work of the bridge the Local Fund Board have passed the estimate for submission to Government, and have authorised the District Engineer to obtain the plates in anticipation of sanction, the iron work having already been received from Madras.

4. In my letter, No. 1,088, of the 22nd instant, I have pointed out the source from which the sum of Rupees 9,500 required for this bridge can be provided.

ENCLOSURE No. 1.

From Major H. SMALLEY, R.E., District Engineer, South Canara, to the President of the Local Fund Board, Canara Circle, dated Mangalore, 14th November 1878, No. 79.

I REGRET exceedingly to have to send again a supplemental estimate for the Feringapett bridge.

2. When I made out the revised estimate submitted to the Board on the 31st July 1878 with my No. 44, of 30th idem, I had the Madras Workshop bill for the iron work, but without details, and, looking at the amount of the bill, I concluded, as a matter of course, that everything was contained in it and it was a final charge for the whole of the iron work. On the 14th ultimo, however, I received a letter from the General Superintendent to say the bridge was about to be despatched and to ask whether he should send *flooring plates* in addition. In reply I at once requested to be furnished with details of the bill as I could not conceive how it was the charge for flooring plates was not included in it. The General Superintendent has now sent me the details of the bill, which is exclusive of the flooring plates. He also quotes from a letter of the District Engineer, dated 10th December 1875, distinctly stating that the flooring plates would be obtained elsewhere. He attributes the amount of the bill to the great weight of iron used especially in the cross girders, which he says are enormously strong and will bear about 1,000 tons. These cross girders and vertical stiffening bars were especially ordered by the late District Engineer.

3. The bridge has since been despatched without the flooring plates; the girders can be put up soon, but of course will be of no use till the flooring plates are obtained from Madras or elsewhere, and, as the girders have been made at Madras, I should think it would be better they also should be obtained there, especially as they are all ready to be shipped. The estimated cost thereof, including carriage, is Rupees 2,000.

4. The only source I see from whence this additional demand can be met is from the Bajpe road grant for the current year, and I accordingly beg to recommend that Rupees 2,000 be

transferred from that work to the Feringapett bridge, and, as time is of importance, I request your authority to order the flooring plates from the Madras Workshop at once.

ENCLOSURE No. 2.—Estimate.

ENCLOSURE No. 3.—Comparative Statement.

ENCLOSURE No. 4.—Extract from Proceedings of Local Fund Board.

THE second revised estimate, amounting to Rupees 24,700, for the construction of an iron girder bridge across the Feringapett river on Road No. 1, from Mangalore to the Mysore frontier *via* the Sampaje Ghat, is submitted for the sanction of Government, in continuation of the Board's Proceedings, dated 22nd November 1878, No. 3,112.

2. The present estimate is in excess of the first revised one by Rupees 2,000. The excess is owing to the omission of the cost of the iron flooring plates under a misconception of the items contained in the bill received from the General Superintendent of the Public Works Stores and Workshops at Madras.

(True Copies and Extract.)

(Signed) J. STURROCK,
Acting Secretary.

No. 199.

ORDER THEREON, 20th January 1879, No. 245 W.

THE revised estimate of Rupees 24,700 for constructing an iron girder bridge across the Feringapett river on the road from Mangalore to the Mysore frontier *via* the Sampaje Ghat is sanctioned under the explanation afforded.

2. The provision of funds will be considered in the Financial Department.
3. This sanction has been registered as Local No. 222 B of 1878-79.

(True Extract.)

Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle.
" Examiner of Public Works Accounts, with estimate of Rupees 24,700.
" Financial Department.
" Board of Revenue.

Exd. C. Howarth.
Spare Copies

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BUILDINGS AND ROADS
CIVIL WORKS.

Gt. of (1879) Madras.

PUBLIC WORKS.

THE SUPERINTENDING ENGINEER,
FOURTH CIRCUL.

Dated January 20th.

Issued

Recd.

Recd.

G. O., 20th January 1879, No. 245 W.

JANUARY.

Nos. 198-199.

Iron Girder Bridge across the Feringapett
River. Sanctioning the revised estimate for
constructing an —

No. 3,112.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 22nd November 1878.

Read the following letter from W. H. COMYN, Esq., President of the Local Fund Board, Canara Circle, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Pootoor, 31st October 1878, No. 1,035:—

I HAVE the honor to submit, for the sanction of Government, a plan and revised estimate, amounting to Rupees 22,700, for the construction of an iron girder bridge across the Feringapett river on the 9th mile of Road No. 1 from Mangalore to the Mysore Frontier via the Sampaje Ghat, together with a comparative statement showing the variations between the original and the revised estimates, and a copy of the Resolution of the Local Fund Board, dated the 29th August last, No. 23, approving the revised estimate. Copy of the District Engineer's letter (No. 44, dated 31st July 1878,) forwarding the same is also enclosed.

1. Plan of the bridge.
2. Working drawing of the bridge.
3. Plan of the bridge supplied by General Superintendent, Public Works Workshops and Stores.
4. Abstract Revised Estimate.
5. Detailed do.
6. Specification Report.
7. Comparative Statement.

2. The original estimate for this bridge, amounting to Rupees 15,200, was sanctioned in G.O., Financial Department, 21st May 1875, No. 1,107. The present estimate is therefore Rupees 7,500 in excess of the sanctioned estimate.

3. The excess is chiefly owing to additional work of sinking wells of masonry built in by hydraulic mortar not provided for in the original estimate; these wells are estimated to cost Rupees 3,840. Under iron-work there is an excess of Rupees 1,894. The present estimate provides for the actual cost of the iron-work ordered from the Public Works Stores and Workshop, Madras. The District Engineer states that the iron-work is now ready to be shipped to Mangalore. The other items of increase are of minor importance and do not call for special remarks.

4. The amount of the original estimate, viz., Rupees 15,200, having already been allotted, the net amount requiring provision is Rupees 7,500. I shall shortly point out the source whence this amount can be met. In the meantime I request that the Board of Revenue will be pleased to obtain the early sanction of Government to the revised estimate herewith submitted.

ENCLOSURE No. 1.

From Major H. SMALLEY, R.E., District Engineer, South Canara, to W. H. COMYN, Esq., President of the Local Fund Board, Canara Circle, dated Mangalore, 31st July 1878, No. 44:—

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2. The first item that demands notice is the addition of wells under the foundations of the abutments of the bridge, and this is the heaviest item of excess over the original estimate, viz.,

Rupees 3,840. The necessity for wells was pointed out by Mr. Lawford to the Chief Engineer in October 1875 and March 1876. Mr. Pringle pointed out in his letter, No. 79, of 9th January 1877, that no savings could be effected in other parts of the estimate to meet the cost of these wells as anticipated by Mr. Lawford. The cost of the wells is really more than Rupees 3,840 as some of the expenditure on their construction has been charged to excavation, baling, and contingencies indiscriminately, but the details cannot now be traced.

3. The next item that calls for notice is earth-work in excavation on which an excess of Rupees 302 is shown in the revised estimate. I can get no proper explanation of this, but it is surmised that is owing to the introduction of the wells, but in any case this item was evidently under-estimated.

4. The next item to be noticed is the iron-work of the bridge, and this is the next heaviest amount of excess over the original estimate after the wells, viz., Rupees 1,894, in fact, these two items together make up nearly the whole of the excess. The cost now shown is the actual amount received on the 2nd instant. The iron-work is ready to be shipped to Mangalore as soon as weather permits.

5. The next item to be noticed is baling, excess Rupees 640 due to the introduction of wells, evidently under-estimated in any case.

6. The next item "fitting and revetting," I have increased from Rupees 830 to Rs. 1,000 or Rupees 170 in excess, as from personal inspection I have convinced myself that the amount originally allowed is not sufficient for such high approaches as this bridge has.

7. The next item "carriage, &c.," is increased from Rupees 1,000 to Rupees 1,500 or Rupees 500 in excess of the original and has been calculated thus—

(a.) As per Madras Workshop bill for carriage from Madras:	Rs. 1,005
(b.) Landing at Mangalore and carriage to site ...	195
(c.) Putting up	300

8. The last item "Contingencies" are allowed at 7½ per cent. on the total of the estimate as before and amount to Rupees 459 over the original. A good deal charged to contingencies ought really to have debited to sub-heads of the estimate, but it is not found practicable to alter the charges now. Rupees 1,077-14-10 have actually been spent on contingencies to the end of April 1878. On the estimate being sanctioned Rupees 7,500 will have to be provided in addition to current year's allotment, Rupees 5,609.

(True Copy.)

(Signed) W. H. COMYN,
President.

ENCLOSURES Nos. 2 to 4.—Plans.

ENCLOSURES Nos. 5 and 6.—Estimates.

ENCLOSURE No. 7.—Specification Report.

ENCLOSURE No. 8.—Comparative Statement.

ENCLOSURE No. 9.—Extract from Proceedings of Local Fund Board.

THE revised estimate, amounting to Rupees 22,700, for constructing an iron girder bridge across the Feringapett river on the 9th mile of Road No. 1 from Mangalore to the Mysore frontier *via* Sampaji Ghant is submitted for the sanction of Government.

2. The present estimate is Rupees 7,500 in excess of the original one for Rupees 15,200, sanctioned in G.O., Financial Department, dated 21st May 1875, No. 1,107, and the cause of the excess is explained in the District Engineer's letter, dated 31st July 1878, No. 44.

3. The work appears as Item No. 3 with an allotment of Rupees 5,609 in the list of Incomplete works of 1877-78, sanctioned in Board's Proceedings, dated 15th June 1878, No. 1,634.

(True Copies and Extract.)

W. H. Comyn
Acting Secretary.

To the Secretary to Government, Public Works Department,
with eight enclosures to be returned.

" President, Local Fund Board, Canara Circle.
" Superintending Engineer, 4th Circle.
" Examiner of Public Works Accounts.

P.W. 1878
 No. 20 of Jan 1/79 - Rs. 24 1/2

Rs. 13.456

Iron Girder Bridge — across the Feringapett river on the 9th mile of Road No. 1 from Mangalore to the Mysore frontier via Sampaje Ghaut in Canara Local Fund Circle. — Submitting for sanction of Government revised estimate for constructing an —

PROCEEDINGS, 22ND NOVEMBER 1878, No. 3,112.
 NOVEMBER.
 No. 3,112.

1878.
 Board of Revenue,
 MADRAS.
 To
 THE SECRETARY TO GOVT.,
 PUBLIC WORKS DEPT.,
 &c., &c., &c.
 Dated November 22nd.
 Printed December 4th.
 Received

Recd 16 Dec

Rs. 77 1/2

Car 17 1/2

No. 3,520.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 30th December 1878.

Read the following letter from W. H. COMYN, Esq., President of the Local Fund Board, Canara Circle, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Mangalore, 29th November 1878, No. 1,112:—

In continuation of my letter, No. 1,035, of the 31st October 1878, I have the honor to submit herewith, for the sanction of Government, a supplemental estimate, amounting to Rupees 24,700, for the construction of an iron girder bridge across the Feringapett river on Road No. 1 from Mangalore to the Mysore frontier via the Sampaje Ghaut, together with a copy of the Local Fund Board's resolution, dated the 25th instant, approving it.

2. A revised estimate for this bridge amounting to Rupees 22,700 or Rs. 7,500 in excess of the amount of the original estimate (Rupees 15,200) sanctioned in G.O., Financial Department, dated 21st May 1875, No. 1,107, was submitted for sanction with my letter, No. 1,035, above quoted, and the necessity for the revision of the estimate and the increased expenditure was explained therein. The amount of the estimate now submitted is in excess of that of the revised estimate by Rupees 2,000, which, the District Engineer explains, is owing to the cost of the iron flooring plates not having been included therein under a misconception of the items contained in the bill received from the General Superintendent of the Public Works Stores and Workshop at Madras. A copy of the District Engineer's letter, No. 79, of the 14th instant, explaining the cause of this omission at length, is enclosed for the information of the Board of Revenue and Government.

3. As the flooring plates are indispensably required to complete the work of the bridge, the Local Fund Board have passed the estimate for submission to Government, and have authorized the District Engineer to obtain the plates in anticipation of sanction, the iron work having already been received from Madras.

4. In my letter, No. 1,088, of the 22nd instant, I have pointed out the source from which the sum of Rupees 9,500 required for this bridge can be provided.

ENCLOSURE No. 1.

From Major H. SMALLEY, R.E., District Engineer, South Canara, to W. H. COMYN, Esq., President of the Local Fund Board, Canara Circle, dated Mangalore, 14th November 1878, No. 79.

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2. When I made out the revised estimate submitted to the Board on the 31st July 1878 with my No. 44 of 30th idem, I had the Madras Workshop bill for the iron work, but without details, and, looking at the amount of the bill, I concluded, as a matter of course, that everything was contained in it and it was a final charge for the whole of the iron work. On the 14th ultimo, however, I received a letter from the General Superintendent to say the bridge was about to be despatched and to ask whether he should send flooring plates in addition. In reply, I at once requested to be furnished with details of the bill as I could not conceive how it was the charge for flooring plates was not included in it. The General Superintendent has now sent me the details of the bill, which is exclusive of the flooring plates. He also quotes from a letter of the District Engineer, dated 10th December 1875, distinctly stating that the flooring plates would be obtained elsewhere. He attributes the amount of the bill to the great weight of iron used especially in the cross girders, which he says are enormously strong and will bear about 1,000 tons. These cross girders and vertical stiffening bars were especially ordered by the late District Engineer.

3. The bridge has since been despatched without the flooring plates; the girders can be put up soon, but of course will be of no use till the flooring plates are obtained from Madras or elsewhere, and, as the girders have been made at Madras, I should think it would be better they also should be obtained there, especially as they are all ready to be shipped. The estimated cost thereof including carriage is Rupees 2,000.

612/100

No 2145 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 20th Jan'y 1879.

Read the following:—

adv. of the Board of Revenue

(H.C. No 5142 of 22nd Nov 1878)

for

(H.C. No 3520 of 30th Dec 1878)

The revised estimate of Rupees 24,700 for constructing an Iron Girder bridge across the Feringipett river on the road from Mangalore to the Mysore frontier via the Sampaje Ghaut is sanctioned under the explanation afforded.

The provision of funds

J. W. Fischer
This is of course no alternative but to sanction. But I refer from Major Shadley's letter that the design was hastily conceived & expensive.

4. The only source I see from whence this additional demand can be met is from the Dajpe road grant for the current year, and I accordingly beg to recommend that Rupees 2,000 be transferred from that work to the Feringipett Bridge, and, as time is of importance, I request your authority to order the flooring plates from the Madras Workshop at once.

(True Copy.)

(Signed) W. H. COMYN,
President.

ENCLOSURE No. 2.—Estimate.

ENCLOSURE No. 3.—Comparative Statement.

ENCLOSURE No. 4.—Extract from Proceedings of Local Fund Board.

The second revised estimate, amounting to Rupees 24,700, for the construction of an iron girder bridge across the Feringipett river on Road No. 1, from Mangalore to the Mysore frontier via the Sampaje Ghaut, is submitted for the sanction of Government in continuation of the Board's Proceedings, dated 23rd November 1878, No. 3,112.

2. The present estimate is in excess of the first revised one by Rupees 2,000. The excess is owing to the omission of the cost of the iron flooring plates under a misconception of the items contained in the bill received from the General Superintendent of the Public Works Stores and Workshops at Madras.

(True Copies and Extract.)

J. W. Fischer
Acting Secretary.

- To the Secretary to Government, Public Works Department, with three original enclosures to be returned.
- President of the Local Fund Board, Canara Circle.
- Superintending Engineer, Fourth Circle.
- Examiner of Public Works Accounts.

Exd. J. W. Fischer.

1878.
Board of Revenue,
MADRAS.
THE SECRETARY TO GOVT.,
PUBLIC WORKS DEPT.,
&c., &c., &c.

Dated December 30th.

Printed January 20th, 1879.

Proceedings, 30th December 1878, No. 3,520.

No. 13 January 1879
DEC. 13
No. 3,520.

Iron Girder Bridge—across the Feringipett river on Road No. 1, from Mangalore to the Mysore frontier via the Sampaje Ghaut, in Canara Local Fund Circle.—Submitting for sanction of Government a second revised estimate for the construction of an —

Can 17.1 R 20-1-79

will be considered
in the financial

Department. ^{16.11.79}

This sanction has
been registered as Local No
22213 of 1878-79.

Hon. Mr. Anand

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Supy. Engr. Fourth Circle
Bamun P. M. A.
with estimate of Road
Financial Dept
Board of Revenue
Sept-7-2-79 office

to Ld. Secy. R20-1-79

13730
C. 429
Govt. of Madras
PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O., 20 Jan'y 1879, No. 2456

Nos. 198-199

Iron Girder Bridge
across the Seringipett
River. Sanctions the
revised estimate for
constructing an —

Richardson R20-1-79

10000 of 1000
Chief-Engineer's office