

No. of Pages 34

Date of repair 10.5.88

Number of references 3

TAMIL NADU ARCHIVES.

EGMORE. MADRAS 8

PUBLIC WORKS.

No 88. 10.1.1888

N. G. S.
9.5.88

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, 10th December 1887, No. 493 E.W. :—

I have the honor to submit, for early sanction of Government and assignment of funds, an estimate, amounting to Rs. 1,000, for providing additional support to the Kanooth bridge, about a mile out of Vayitri on the Vayitri-Gúdalúr road.

2. I may remind you that you inspected this bridge on the 3rd October and were satisfied of the necessity for renewing the superstructure at an early date.

3. The necessity for the work now estimated is explained in the Executive Engineer's letter No. 728, of 6th instant, herewith sent.

1. Collector's cutcherry, Calicut ...	RS. 6,000	4. If funds for the work are not available with the Government, I beg to suggest that the required amount may be met from the surrenders noted in the margin (<i>vide</i> letter No. 727, of 5th instant, from the Executive Engineer, West Coast division, bearing this office endorsement, No. 486 E.W., of 7th idem).
2. Sea Customs house, Cochin ...	2,000	
3. Residence for Assistant Superintendent of Police, Malapuram ...	700	
Total ...	8,700	

ORDER—dated 10th January 1888, No. 88 W., Public Works.

The estimate, amounting to Rs. 1,000, for providing additional support to the Kanooth bridge on the Vayitri-Gúdalúr road, is sanctioned for immediate execution. The amount of the estimate will be provided later in the year.

2. It should be understood that the estimate now sanctioned provides only for a temporary arrangement, and that estimates for the permanent renewal of the bridge are awaited.

3. This sanction has been registered as Provincial, No. 139 W. of 1887-88, and classified as Communications, Original Works.

(True Extract.)

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

To the Superintending Engineer, IV Circle, with two enclosures.
" Examiner, Public Works Accounts, with the estimate for note
and return to Superintending Engineer, IV Circle.

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1888) Madras.
PUBLIC WORKS.

Dated January, 10th.

Recd.

Encl.

G.O., 10th Jan. 1888, No. 88 W.

JANUARY.

Kanooth Bridge on the Vayitri-
Gudalur Road

Estimate for additional support to the
sanctioned with remarks.

15TH OCTOBER 1885, No. 2412 W., PUBLIC WORKS.

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, 27th August 1885, No. 360 E.W. :—

I have the honor to submit herewith the second of the estimates mentioned in paragraph 7 of the late Mr. Nordmann's letter, No. 27 V., of 25th January 1884, and referred to at paragraph 11 of G.O., No. 524 W., of 26th February 1884. The estimates for the first of the series, the Calicut-Vayitri road, were sanctioned in the following G.Os. :—

No. 3043 W., of 12th December 1884.
No. 155 W., of 19th January 1885.
No. 1527 W., of 1st July 1885.

2. The estimate now submitted is for the 46 miles of road from Vayitri to Gudalur, on the line approved in G.O., No. 3109 W., of 18th December 1884, and includes the following items :—

	RS.
Reformation, including tunnels	2,55,510
Five large bridges having waterways varying from 50 to 120 feet...	71,044
Fifteen minor bridges having waterways varying from 10 to 20 feet	26,092
Rest-houses, &c.	7,728
Compensation for land	650
Repairs while the improvements are in progress	41,400
Total ...	4,02,424

3. The estimates are accompanied by a survey and sections of the road in 62 sheets, 8 plans of bridges, a sketch-map, and a report, which have all been prepared with much care by Mr. A. B. Todd, Assistant Engineer. A general abstract estimate, framed in this office, is sent with them.

4. The estimates for road-making, bridges and buildings provide $2\frac{1}{2}$ per cent. for contingencies and $2\frac{1}{2}$ per cent. for superintendence; and the only item of the sufficiency of which I am doubtful is that for "compensation." I think Mr. Todd may be mistaken in supposing that owners will make presents of land to the road, and that it will be safer to raise the total of the estimate by an item of Rs. 7,576 on account of unforeseen demands and other contingencies. This item has accordingly been entered in the general abstract estimate, making the total to come to Rs. 4,10,000.

Note by the Chief Engineer, Public Works Department.

The estimates now before Government provide for improving, and placing in good order, the road between Vayitri and Gudalur in Wynaad, a distance of 46 miles. The estimates amount to Rs. 4,10,000, being at the rate of about Rs. 8,900 per mile.

2. These estimates provide for the third and last portion of the through road between Ootacamund and Calicut. The improvement of the portion between Ootacamund and

Gudalur, 31 miles, has now been nearly completed at a cost of Rs. 1,83,250; and estimates, amounting to Rs. 3,19,788,* have been sanctioned for improving the portion between Vayitri and Calicut.

* G.O., No. 1527 W., dated 1st July 1885.

" " 2373 W., " 12th October 1885.

3. The estimates now laid before Government have been prepared in a manner highly creditable to Mr. A. B. Todd. The line adopted is that approved in G.O. of 18th December 1884, No. 3109 W. The gradients on the new line will be considerably easier than those on the old road, while at the same time the through distance is shortened by $2\frac{1}{2}$ miles.

4. The points in the estimate which appear to require notice are—

- (1) The width of roadway allowed is 16 feet, of which it is proposed to metal 12 feet. The width should be increased to 18 feet, the metalled portion remaining as proposed.
- (2) The proposal to omit check-drains where the line runs through plantations is not approved.
- (3) The estimates for rest-houses should be revised and reduced in accordance with the Superintending Engineer's letter, No. 384, dated 24th September 1885.
- (4) The Superintending Engineer's suggestion, to add a sum of Rs. 7,576 to cover the cost of compensation for land, is approved.

3rd October 1885.

(Signed) J. SHAW-STEWART, Col., R.E.,
Chief Engineer, P.W.D.

ORDER—dated 15th October 1885, No. 2412 W., Public Works.

The estimates, amounting to Rs. 4,10,000, for improvements to the road between Vayitri and Gúdalur, are sanctioned for execution when funds are available.

2. The remarks of the Chief Engineer should receive attention.

3. The Government concur in the Chief Engineer's commendation of the creditable manner in which the project has been submitted by Mr. Todd.

4. The question of transferring the charge of the road to the Public Works Department, while the improvements are in progress, will be a matter for future consideration.

5. The sanction accorded in paragraph 1 of these proceedings has been registered as Provincial No. 149 W. of 1885-86, and classified as Communications, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with enclosures.
" Examiner, Public Works Accounts, with general abstract estimate.
" Financial Department.
" Honorary Secretary, Wynnad Planters' Association.

Exd. J. Henricus,
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1885) Madras

PUBLIC WORKS.

Dated October, 15th.

Recd.

Encl.

G.O., 15th Oct. 1885, No. 2412 W.

OCTOBER.

Road between Vayitri and
Gudalur

Estimates for improvements to the —,
sanctioned with remarks.

9TH JANUARY 1886, No. 70 W., PUBLIC WORKS.

88
4

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From W. LOGAN, Esq., President, District Board, Malabar, to the Chief Secretary to Government, dated Lakkidi, 9th December 1885, No. 1145.

I have the honor to submit, herewith, an extract (regarding the re-construction of the Sholadi bridge) from the proceedings of the district board at a meeting held at Vayitri on the 2nd instant.

2. The bridge is in disrepair and the District Board District Engineer is of opinion that the re-construction should be carried out *at once*, if possible, as he thinks that it will not last through another monsoon without some very considerable repairs.

3. As Government have sanctioned the improvement of the line of road on which the bridge is situated, I have the honor to request that they will be pleased to order the Public Works Department to undertake the re-construction at an early date.

ENCLOSURE.

EXTRACT from the proceedings of the District Board, Malabar, at a meeting held at Vayitri on Wednesday, the 2nd December 1885.

3. Read letter, No. 224, dated the 9th October 1885, from the President, District Board, Nilgiris, requesting to be informed whether the Sholadi bridge will be included in this circle budget for 1886-87, and, if so, what amount of contribution might fall to the share of that board.

Also letter, No. 990, dated the 24th October 1885, from the President, District Board, Malabar, to the President, District Board, Nilgiris, stating that as road No. 4 is to be handed over to the Public Works Department, both circle boards should address Government with a view to the work being undertaken by them immediately.

And letter, No. 236, dated 29th October 1885, from the President, District Board, Nilgiris, stating that a representation will be made to Government as suggested.

Resolution.—The Board resolve to suggest that the Public Works Department take over the bridge at once.

No. 526, Financial.

Transferred to the Public Works Department.

(Signed) W. WILSON,
Ag. Chief Secretary.

15th December 1885.

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 29th December 1885, No. 506 E.W.

In returning your No. 2181 C., dated Chepāk, 17th December 1885, I have the honor to inform you that, if sanction be given at once, the new bridge over the Sholadi river may be finished during the present working season.

2. The cost of the bridge will be Rs. 15,551, and of the approaches Rs. 5,000; total Rs. 20,551.
3. A sum of Rs. 3,000 will be required for expenditure before 31st March.

ORDER—dated 9th January 1886, No. 70 W., Public Works.

A sum of Rs. 20,551 will be allotted early in 1886-87 for the construction, by the Public Works Department, of the new bridge over the Sholadi river and its approaches.

2. No funds are available for allotment during the current official year, but arrangements should at once be made for the collection of materials for the work.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Financial Department.

GENERAL
ACCOUNT.

Govt. of (1886) Madras.
PUBLIC WORKS.

Dated January, 9th.

Recd.

Encl.

G.O., 9th Jan. 1886, No. 70 W.

JANUARY.

New Bridge over the Sholadi
River

Orders stating that funds will be allotted
early in 1886-87 for the —.

21/1/86

88
6

18TH JANUARY 1886, No. 152 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 14th January 1886, No. 15 E.W.

In forwarding the statements of savings and demands under the heads Imperial and Provincial, I have the honor to request you will be good enough to intimate your approval of the whole or any portion *by telegram*, so that arrangements may be made to utilise the grants before 31st March next.

ORDER—dated 18th January 1886, No. 152 W., Public Works.

The following sums are resumed and added to the Provincial reserve with the Government :—

1. District munsif's court at Ottapalam	...	...	...	...	RS.
2. Improvements to road from Calicut to Vayitri	...	...	...	...	300
3. Repairs, Communications, Coimbatore division	...	...	...	...	25,000
4. Tools and plant, Coimbatore division	...	...	...	...	108
					110
Total ...					25,518

2. The following appropriations are made from the Provincial reserve with the Government :—

1. Improvements to the Collector's office at Mangalore	...	...	...	...	RS.
2. Improvements to the tahsildar's office at Putur	...	...	...	...	2,500
3. Purchase of Rowe's bungalow at Devála and converting it into a police station and ten police huts, and constructing five additional huts	...	...	...	...	107
4. Alterations to the tahsildar's office at Mangalore	...	...	...	...	4,500
5. Temporary establishment for surveying the proposed cart-road from Salem to Yercaud	...	...	...	...	595
8. Sholadi bridge	...	...	...	...	500
9. Widening the ghát road near the Craigmole toll bar	...	...	...	...	3,000
					1,000
Total ...					12,202

3. The Superintending Engineer applies for an allotment of Rs. 13,316 for the proposed new office for the Collector at Calicut, but as plans and estimates for the work have not yet been sanctioned, the amount has not been granted.

4. The following transfers of funds under Imperial, Military, are sanctioned:—

From	Rs.	To	Rs.
Original Works.		Original Works.	
Bakery at Wellington ...	4,300	Putting the Cannanore fort into a state of defence ...	1,802
Fixing iron dampers to the ovens of the Government bakery at Cannanore ...	586	Improving the hospital and nursery dormitories, male and female branches of the Lawrence Asylum, Ootacamund ...	1,700
Repairs.		Converting the old cells in the Cannanore fort into a double magazine and treasure-room and fixing lightning conductors ...	420
Repairs, Coimbatore division ...	1,700	Improvements to the rest-house at Pôdanûr ...	150
		Minor works, Nilgiri division ...	1,631
		Do. Coimbatore do. ...	250
		Do. West Coast do. ...	618
Total ...	6,566	Total ...	6,566

5. A sum of Rs. 100 is allotted to the Coimbatore division under Imperial, Civil Buildings, Postal, Repairs, from the reserve with the Government under that head.

6. With reference to the application for funds for the post office at Salem, the attention of the Superintending Engineer is drawn to paragraph 4 of G.O. No. 2564 W., dated 2nd November 1885.

7. The following telegram will be sent to the Superintending Engineer, IV Circle:—

"Your No. 15 E.W. of 14th. Transfers under Provincial, except Collector's office, Calicut, under Military to the extent surrendered, and under Imperial, Civil Buildings, except post office at Salem, sanctioned."

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Judicial Department.
" Revenue do.
" Financial do.
" Military do.

Ed. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of (1886) Madras.
PUBLIC WORKS.

Dated January, 18th.

Recd.

Encl.

G.O., 18th Jan. 1886, No. 152 W.

JANUARY.

Funds

Orders on letter from the Superintending Engineer, IV Circle, surrendering certain—

13TH JULY 1887, No. 1879 W., PUBLIC WORKS.

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 Salem, 29th June 1887, No. 265 E.W. :—

I have the honor to submit, for sanction and provision of funds, a revised estimate, amounting to Rs. 6,090, with a comparative statement, for constructing a wooden bridge at Barliyár, on the 23rd mile of Ootacamund-Kullar road.

2. The original estimate of Rs 4,940 was sanctioned in G.O., No. 1418 W., dated 4th June 1886. The excess of Rs. 1,150 over the original sanction is due to the following items :—

(1) The rate for rubble masonry has been increased from Rs. 40 to Rs. 53, owing to the difficulty of working with the very hard stone found on the spot and scarcity of skilled labor: hence the excess ...	rs. 294
(2) The rate for wood-work has been raised from Rs. 2-8 to Rs. 2-12 for the substitution of iron-wood instead of vengay planking and joists, as the required quantities of the latter wood cannot be obtained: hence excess ...	116
(3) The cost for constructing temporary bridge, benching rocks, &c., has been increased from Rs. 750 to Rs. 1,440, as it was found absolutely necessary to make the temporary bridge safe for the heavy traffic passing over it, and also the cost of benching the rocks was much greater than anticipated: hence excess ...	690
(4) Corresponding excess on the item of contingencies and superintendence ...	100
Total ...	1,200
Deduct saving in the item of scaffolding ...	50
Net excess ...	1,150

ORDER—dated 13th July 1887, No. 1879 W., Public Works.

The revised estimate, amounting to Rs. 6,090, for constructing a wooden bridge at Barliyár, on the Ootacamund-Mettupálaiyam road, is sanctioned in lieu of the estimate of Rs. 4,940 sanctioned in G.O., No. 1418 W., dated 4th June 1886.

2. As the amount of the reserve with the Government is very small, the Superintending Engineer will, if feasible, propose a transfer of funds required for the work from the grant for other works in his circle.

3. This sanction has been registered as Provincial, No. 54 W. of 1887-88, and classified as Communications, Original Works.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with three enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Financial Department.

Exd. E. Fernandez.

Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 1887 Madras.
PUBLIC WORKS.

Dated July, 13th.

Recd.

Encl.

G.O., 13th July 1887, No. 1879 W.

JULY.

Bridge

Wooden — at Barliyar, on the Ootacamund-Mettupalayam road. — Revised estimate of Rs. 6,090, for constructing a —, sanctioned.

No. 493
From,

Superintending Engineer's office &c. &c.
Coimbatore 10th December 1887.

Colonel J. Beatty R.E.
Superintending Engineer
Fourth Circle.

To,

The Chief Engineer
P.W. Department

Sir,

Enclosures 3.

1 Executive Engineer's letter No. 728 of 6/12/87
1 Plan
1 Estimate

I have the honor to submit for early sanction of Government and assignment of funds, an estimate amounting to Rs 1000 for providing additional support to the Kanooth Bridge, about a mile out of Vayitri on the Vayitri-Gudalur road.

2. I may remind you that you inspected this bridge on the 3^d October and were satisfied of the necessity for renewing the super-structure at an early date.

3. The necessity for the work now estimated is explained in the

the Executive Engineer's letter No. 728
of 6th Instant herewith sent.

4. If funds for the work are not
available with the Government, I
beg to suggest that the required a-
mount may be met from the sur-
renders noted in the margin. Vide
letter No. 727 of 5th Instant from the
Executive Engineer West Coast Divi-
sion bearing this office endorsement
No. 486 & w. of 7th Idem.

I have the honor to be

Sir,

Your most obedient servant.

Yr. Obedt. Col. R. G.

Superintending Engineer

in circle

1. Collector's Cutcherry, Calicut	Rs 6000
2. Secd Customs house, Cochin.	" 2000
3. Residence for Asst. Supt. of } Police, Malapparam }	700
	Rs 8700

88
10

P/MC/10/185.

From

Colonel J. Beatty R.E.
Superintendent,
Fourth Circle.

Dated 10th Decr 1887.

No: 493
No.

Incls: 3

Kunniooth Bridge

Submitting for
early sanction of
Government and as-
signment of funds
an estimate of Rs.
1000 for providing
additional support
to the —

No 728

West Coast Division Office,
Calcutta, December 1887.

From,

J. J. Wilson Esq.
Executive Engineer,
West Coast Division.

To

The Superintending Engineer,
Fourth Circle.

Sir,

With reference to your
dated 1st September 1887 regarding
the Kunniooth Bridge, I have the
honor to inform you that I
have again carefully examined
the bridge and to report as
follows.

The bridge consists of three spans
of 40 ft each. The planked road-
way is carried over each span
by two composite wood and
iron girders (somewhat like the
Howe girder) 4' 9" deep, resting
on wooden corbels on the abut-
ments and piers.

The

The bridge was put up about Eighteen years ago which is a long life for a wooden bridge and as might be expected however good the original design it is no longer safe. All the girders have sagged from 4" to 4 1/2". The corbells are rotten, as well as some of the struts. The bearings of the ends of the struts are defective. The beams supporting the roadway 15 ft wide are 9" x 6" in scantling and 2' 3" from centre to centre. These if of sound teak would be barely strong enough but bend considerably when a full cart passes over them.

The masonry piers and abutments appear to be strong and good. The two side spans have been strengthened by struts but these I do not consider strong enough. As the heaviest traffic of

of the year is just now commencing I consider it urgently necessary to temporarily strengthen the bridge.

I submit herewith an estimate for doing this amounting to Rs 1000. My proposal consists of fixing three sets of struts as shown in the plan for the centre span the centre set to support a longitudinal beam under the roadway beams. For the side spans as there will be no water passing through them at this season, I propose to introduce timber framed piers. As regards the permanent improvement of the bridge, considering the cheapness of timber and proximity of forest to the locality and the shortness of the span, I am inclined to think that a good timber bridge is more suitable than iron and I am preparing an

an estimate for this to enable
me to compare the cost with
that of an iron one. I also think
that it is possible to utilize
whatever good material re-
mains in the present bridge.

The present bridge appears to
have failed by defective joints
and owing to the design it is
impossible to replace pieces
which have become rotten
without pulling the whole
bridge to pieces.

I have the honor to be,
Sir,
Your most obed^t Servant,

J. J. Wilson

Executive Engineer



From,

J. J. Wilson Esqre
Executive Engineer
West Coast Division

To
The Supg. Engineer
IV Circle

Enclosure box of letter No
493 of 10/12/87 from the
Supg. Engineer IV Circle
Dated 6
Despatched } Dec/87
Recd }

Enclosures 2

No 728

Kanooth Bridge

Submits a special
report on the ne-
-cessity of the repairs
to

Public Works Department.

Current No. 10/86

Letter No. 493 E.M.

Dated the 10th December 1887

From the Supg. Engineer IV Circle

NOTE OF REMARKS.

The accompanying Est.
amounts to Rs. 1000 and
provides for additional
supports to the Kanooth
bridge ~~on the~~ ^{on the}
Vagitha ~~on the~~ ^{on the} ~~bridge~~
road -

The Kanooth bridge
consists of 3 spans
of 40' each carried
on wooden abutments
15' wide on two corners.
Joists, wood & iron,
riders 4' 9" deep
resting on wooden
carrels on the abutments
and piers -

This bridge is in
fair condition was built
about 18 years ago
and is now considered
to be unsafe

as all the girders being
sagged from $1\frac{1}{2}$ " to $4\frac{1}{2}$ "
The corbels as well as some
of the struts are stated
to be decayed and the
bearings of the ends
of the struts defective.
The beams supporting
the roadway are of 4×6 "
scantlings $2'-3'$ from
center to center and
if sound are considered
amply strong enough
to sustain the ordinary
load passing over
them. The abutments
and piers however are
stated to be strong &
sound.

It is now proposed
to strengthen the bridge
by means of struts
as shown in the
plan & for the center
span the center set of
struts is to support
a longitudinal beam
under the roadway
beams and will
also have a wooden
arch supported on piles.

Remarks 88
15

As the abutments
and piers are stated
to be in good con-
dition it would per-
haps be ^{with} desirable
the whole of the
top haunches of
the bridge and
to reconstruct it
entirely of iron
with lattice girders
from the P.M. bridge,
substituting stone
for wooden corbels
on the abutments
and piers, so as
to give the ends
of the girders
substantial bearings.
The present proposal
to prop up the bridge
is at best only a
temporary arrangement
and the bridge

former on labor will
have to be thoroughly
done up -

The rates are fair
but contingencies
are charged for
at 8 per cent and
for supervision
at 10 per cent which
appears to be high.

Chief
15-12-07

The present Est of 1000 Rs
may be sanctioned. The
arrangement for the bridge spans
~~will~~ will only answer
when the river is dry -

The Estd Officer states that
he is preparing compensative
Est for thoroughly renewing
the bridge, with wood or iron;
there can be no answer.

Chief
19.12.07

The order to state clearly that
the present Est is only for
a temporary arrangement,
and that the Ests for permanent
renewal are awaited

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 10th Jan/08

Read the following

From the Suptg. Engineer IV letter N. E. No. 493 to W. d/10th December 1887.

The estimate amounting to
Rs. 1000, for providing additional support
to the Kancotts Bridge on the Vayittu-
Gudalur road, is sanctioned for imme-
diate execution. The amount of the esti-
mate will be provided later in the
year.

2. It should be understood that
the estimate now sanctioned ^{provides} is only for a
temporary arrangement ~~for the bridge~~
and that the estimates for the permanent
renewal ~~of the bridge~~ are awaited.

3. This sanction has been regis-
tered as Provincial No. 139 W of 1887-88,
and classified as Communications,
Original Works.

To The Suptg. Engr IV letter with
2 enclos.
Enclosure of P. W. letter with the
estimate for note & return to S. E. II

Chief
30.12.07

Done
57/1/08

1218

10,785

Govt. of Madras
PUBLIC WORKS.

Dated

Recd.

Encl.

Madras 1-92

G.O. 10 Jan 1888 No. 88

Kanooche Bridge
on the Vayittu puzhal
road

For addl. support
to the —, sanctioned
with remarks

10/5

original one attached

12