L. & M.
1,900—10-8-96.

Local & Munl. (1896) Department.

PRINTED.

G.O., No. 308 M

DATED 21st February 1896

[Despatch Abstract.]

Suspension Bridge over the Palar River in Vaniyambadi.

Sanctioning, with remarks, the plan and estimate for Rs.23,800 for the construction of a -------- , ordering the publication in the Fort St. George Gazette of an application for a loan of Rs.13,800 from Government required for this purpose, and requesting the Public Works Department to state whether it can execute the work at an early date and whether the usual contribution for supervision and tools and plant will be required.

Cr. 3899 Lo

9-May

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

First copy sent to Press.

Returned for signature.

Despatched in print.

NUMBER OF COPIES REQUIRED.
- Order complete.
- Letter only.
- Order complete with Letter.

READ AGAIN G.O., No. DATED
189

CURRENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED UP BEING MEANT FOR DESPATCH IN ORIGINAL.

N.B.—

A = Print in full.
B = Not to be printed.
P = Print abstract only.
Q = Print heading only.

V.E

~~INDEXED.~~
PRESS.

Local and Municipal Department.
G.O., dated 21-2-96
No. 308m

First copy sent to Press. 21/2/96
Returned for signature. 5/3/96
Despatched in print. 6/3/96

[Despatch Abstract.]

Suspension bridge over the Palar river in Vaniyambadi

Sanctioning with remarks the plan & estimate for Rs 23800 for the construction of a ——, ordering the publication in the Fort St George Gazette of an application for a loan of Rs 13,800 from Govt required for this purpose & requesting the P.W.D to state whether it can execute the work at an early date & whether the usual contribution for ~~the~~ Supervision & tools & plant will be required.

Back Paper, No. of 18

Read again Order of Government, dated 29 May 1895 No. 900 M. — 3 A.

Further Paper, No. Cuo 860 Aug/96 of 18
Cuo 938 Aug/96

Enclosures.

Current No. 111 M. — A.

V. E

Press

This is very urgent. Please print sharp & show proof, putting the loan appln. in, as an annexure.
2 The loan application will have to appear in the next week's issue of the Fort St. George Gazette. Please therefore send proof ~~for~~ of the Gazette notification also, along with that of the G.O.

21/2

Statement with ditto.

Order, &c., of Government— A.

Papers kept out of File for despatch in original (not paged).

Number of copies required.
- Order complete. 90
- Letter only.
- Order complete with Letter.

N.B.—
A = Print in full.
B = Not to be printed.
P = Print abstract only.
Q = Print heading only.
R = Print, but not for monthly volume.

---

90 (for Press

No. 308 M., 21st February 1896.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

Read—again the following paper:—

G.O., Mis. No. 900 M., dated 29th May 1895.

Read—the following letter from J. T. GILLESPIE, Esq., C.S., Chairman, Municipal Council, Vániyambádi, to the Chief Secretary to Government (through the Collector of Salem), dated 25th March 1895, Ref. on No. 23-Eng.:—

With reference to G.O., Mis. No. 26 M., dated 9th January 1895, and in continuation of my letter, Reference on No. 1023-Eng., dated 12th December last, I have the honour to state that in spite of many reminders to Mr. Jainulabdin Sahib, a municipal councillor, who promised to collect subscriptions from the people towards the construction of a bridge over the Pálár river, he did not give me any reply till the 14th February last, on which date he wrote to me stating that, as many of the rich residents were away, he could not send his final report. From the conversation I held with him at the last four or five meetings, I learn that the levy of professional tax in the coming year, as already sanctioned, will have a tendency to check private liberality. Being of opinion that further delay in the matter would only be a waste of time, I brought the subject before the council at its meeting held on the 11th instant. The council concur with my opinion that the levy of professional tax will check private liberality and is of opinion that the only course open to them is to raise a loan from Government for the purpose of building the Pálár bridge. Even if any subscriptions should come in, they will not, in all probability, amount to more than about four thousands of rupees, and this of course falls far short of the estimated cost of construction, viz., Rs. 24,000. It is unnecessary for me to explain again that it is beyond the means of the council to spend such a large sum as Rs. 24,000 for a bridge.

2. I therefore request that the Government will be pleased to comply with the request of the council in the matter of raising a loan. The council will be prepared to pay Rs. 1,200 every year (beginning from 1896–97), including the interest, and I beg to point out, as desired by the council, that, unless this is done, it is impossible to do anything in the matter for some years to come.

3. A copy of the council's resolution on the subject accompanies.

Endorsement, No. 148-Sub.

Forwarded.

2. The matter of providing a bridge is one of urgency having regard to the safety of the town. If the municipality will raise a loan for the purpose, I think it would be advisable to help them as far as possible.

3rd April 1895.

(Signed) G. STOKES,
Collector.

Order—Mis. No. 900 M., dated 29th May 1895.

The papers will be forwarded to the Public Works Department with the request that detailed plans and estimates for the proposed suspension bridge may be prepared.

2. It is observed that the Superintending Engineer's letter, No. 495 M., dated 12th December 1894, speaks of a bridge with a roadway of only ten feet. The Public Works Department will be requested to consider whether this is not too narrow for a bridge 200 feet long, as carts could hardly pass one another in that width, and whether the roadway should not measure at least twelve feet.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Municipal Council, Vániyambádi (through the Collector of Salem).
" Public Works Department.

Read—also the following paper :—

From J. HANNAN, Esq., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 18th November 1895, No. 445-W.

With reference to G.O., No. 1455 W., dated 15th June 1895, and your last reminder, No. 3359-C., dated 8th instant, I have the honour to submit the plans and estimate amounting to Rs. 23,800 for constructing a suspension bridge across the Pálár river at Vániyambádi in the Salem district.

Enclosure.

Report to accompany the estimate for constructing a suspension bridge across the Pálár river at Vániyambádi in the Salem district.

The plan and estimate were called for in G.O., No. 1455 W., dated 15th June 1895.

The plan and estimate now submitted are for a 200-feet span suspension bridge similar in every respect to the Kullar bridge.

The width of the roadway is the same, viz., ten feet. The cost of providing a greater width would, it was found, be incommensurate with the advantage. Like the Kullar bridge, owing to insufficient headway this bridge cannot be stayed to prevent undulation. It could be made stiffer by giving a smaller dip to the cables, but on going into the matter it was found that the extra cost would be incommensurate with the advantage gained. The Pálár river divides itself into two branches about 2¼ miles above the site of the proposed bridge. The right branch again bifurcates about ¼ mile above the site of bridge as shown in the accompanying sketch. It is over the right branch of the latter bifurcation, known as the Govindapuram river, that proposed bridge is to be built. The area drained by the river above its first bifurcation is 1,320 square miles and the discharge from this area as given by the formula $D = 450\ M^{\frac{3}{4}}$ will be in round figures 54,000 feet per second. It will be well on the safe side if the branch to be bridged is assumed to take ⅓rd of this or 18,000 feet per second. The discharge of this branch as calculated from two sections, one taken at site of bridge and the other at 2,200 feet above it with reference to the maximum flood level as well as it can be now ascertained is 15,000 feet per second arrived at as follows :—

Mean area of sections $= (130 + 12 \times 3) \times 12 = 1{,}992$ square feet.

H. R. M. $= R. = \frac{1992}{205.84} = 9{\cdot}67$.

Surface fall $= S = \frac{1.5}{2200} = {\cdot}0006818$.

$V = 90\ 8 \sqrt{9{\cdot}67 \times 0006818} = 7{\cdot}36$.

$D = 7{\cdot}36 \times 1992 = 14{,}661$ or, say, 15,000.

With a head at the bridge of two inches the discharge will be 19,800 feet per second. The bridge towers will be founded on surki concrete six feet thick resting on clay six feet below the deep bed of river.

The superstructure will be of table moulded brick in surki mortar. The masonry work will be carried out in accordance with the standard specification.

The road embankment from the towers to the anchoring chamber will be protected with rail fences consisting of old iron rails fixed in stone uprights.

(Signed) J. HANNAN,
Superintending Engineer, IV Circle.

No. 166-C.

Forwarded to the Local and Municipal Department with reference to G.O., Mis. No. 900 M., dated 29th May 1895, and in continuation of this office No. 2529-C., dated 16th August 1895.

(Signed) D. Mc. NEIL CAMPBELL, Lieut.-Col., R.E.,
Joint Secretary to Government, P.W.D.

10th January 1896.

Order—No. 308 M., dated 21st February 1896.

The plan and estimate for Rs. 23,800, forwarded by the Public Works Department, are sanctioned. A grant of Rs. 10,000 from Provincial funds will be made to the municipal council, and the balance of Rs. 13,800 will be advanced as a loan at 4¼ per cent interest repayable in thirty years.

2. The council should draw the amount of the grant at once, and, as it is advisable that the loan should also be advanced in the current year, an application in the prescribed form will be published at once in the *Fort St. George Gazette*, so as to allow the council, in the absence of any objections, to draw the amount before 31st March 1896.

3. The Chairman will be requested to report, at a very early date, whether any of the promised subscriptions referred to in his letter, No. 23, dated 25th March 1895, are forthcoming, as a contribution of 24½ per cent. will have to be paid to the Public Works Department for the execution and supervision of the work in addition to the amount of the estimate now sanctioned.

4. The Public Works Department will be requested to state whether it can execute the work at an early date, and whether the total amount of 24½ per cent. will be required as contribution for supervision and tools and plant.

(True Extract.)

Chief Secretary.

To the Chairman, Municipal Council, Vániyambádi.
" Collector of Salem.
" Accountant-General.
" Financial Department.
" Public Works Department.
" Gazette.

APPENDIX.

Application of the Vániyambádi Municipal Council for a Loan from Government under section 5 of the Local Authorities Loans Act, 1879.

The work or works for the construction or repair of which the loan is required and an estimate of the cost thereof.	The amount which it is proposed to borrow.	The fund or funds on the security of which it is proposed to borrow.	The law or laws under which the said fund or funds is or are levied, received or held.	The period for which the loan is required, the number and amount of the instalments, if any, in which it is proposed that the loan shall be taken, the dates proposed for receiving such instalments, and the instalments, if any, in which it is proposed to repay the loan.	A detailed account of the revenue and expenditure of local authority for the three last preceding years.	Existing prior charges upon the funds of the local authority.
Construction of a suspension bridge over the Pálár. Rs. 23,800.	RS. 13,800	Vániyambádi Municipal fund.	The District Municipalities Act IV of 1884 (Madras).	(1) The loan is required for a period of thirty years. (2) It is proposed to be taken in one instalment in March 1896, and repaid with interest at 4¼ per cent. in thirty equal instalments of Rs. 822.	Attached herewith.	None.

Detailed account of the Revenue and Expenditure of the Vániyambádi Municipality for the years 1892–93, 1893–94 and 1894–95.

Receipts.	1892–93. RS.	1893–94. RS.	1894–95. RS.
Balance brought forward	1,889	1,312	3,328
Tax on Buildings and Lands	5,143	7,963	8,457
„ on Vehicles and Animals	195	235	286
„ on Carts	382	388	497
Tolls	1,888	2,268	3,364
Rent of Lands, Buildings, &c., and Sale-proceeds of Lands, &c.	243	342	143
Conservancy Receipts	12	23	7
Fees and Revenue from Educational Institutions	141	126	162
„ „ from Medical Institutions	..	..	2
Income from Markets and Slaughter-houses	847	968	1,035
License Fees	191	293	225
Other Fees	14	8	7
Fines under Municipal and other Acts	301	653	1,135
Grants and Contributions from Government	104	31	4
„ „ from Local Boards	714	718	379
Recoveries for Services to private Individuals	18	126	343
Miscellaneous	8	39	21
Advances Recovered	..	26	10
Total	12,090 ✓	15,516 ✓	19,405 ✓

Detailed account of the Revenue and Expenditure, &c.—*cont.*

Charges.	1892–93. RS.	1893–94. RS.	1894–95. RS.
Grant I—			
New Works—			
Communications	31	..	39
Buildings	464	582	2,040
Water-supply	30	..	..
Miscellaneous Public Improvements	..	..	10
Repairs—			
Communications	957	1,309	1,473
Buildings	249	38	15
Water-supply	344	350	400
Establishment	199	284	288
Tools and Plant and other Stores	3	27	16
Total	2,277 ✓	2,590 ✓	4,281 ✓
Grant II—			
Training Schools	90	..	..
Municipal Schools— On the Salary-result System	923	1,147	1,150
Salary Grants	418	420	383
Results Grants	83	132	140
Inspection	111	137	125
Miscellaneous	61	11	6
Total	1,686 ✓	1,847 ✓	1,804 ✓
Grant III—			
Hospitals and Dispensaries	1,435	1,435	1,519
Contributions	66	60	125
Vaccination	244	232	208
Registration of Births and Deaths	109	105	168
Conservancy, Road-cleaning and Road-watering	2,780	3,143	3,488
Total	4,634 ✓	4,975 ✓	5,508 ✓
Grant IV—			
Lighting	593	510	598
Public Garden, Survey of Land, Fire and other charges	480	929	1,145
Total	1,073 ✓	1,439 ✓	1,743 ✓
Grant V—			
Supervision and Management	1,082	1,337	2,193
Advances Recoverable	26	..	23
Balance	1,312	3,328	3,853
Total	12,090 ✓	15,516 ✓	19,405 ✓

Exd. A. Raitt.

V.E

I.S.

Gobt. of {1896} Madras.

LOCAL AND MUNICIPAL.

Proof for approval.

1/1k
26/12

lolo8
26.11

Issued

Recd.

Encl.

Please strike off [illegible] the printer [illegible] is likely to take some [illegible] five copies [illegible]

G.O., No. 308 M., 21st Feb. 1896.

26/2

FEBRUARY.

Suspension Bridge over the Palár River in Vániyambádi.

Sanctioning, with remarks, the plan and estimate for Rs. 23,800 for the construction of a —, ordering the publication in the *Fort St. George Gazette* of an application for a loan of Rs. 13,800 from Government required for this purpose, and requesting the Public Works Department to state whether it can execute the work at an early date and whether the usual contribution for supervision and tools and plant will be required.

48

No. 445 W.

Supg. Engineer's office, 4 Circle,
Coimbatore, 18th November, 1895.

From,

J. Hannan, Esq.,
Supg. Engineer, 4 Circle,

To,

The Chief Engineer,
P.W. Department.

Enclos: 7
1 Sketch Survey,
1 Survey & Sections.
1 Plan.
1 Elevation.
1 Estimate with abstract.
1 Report.
1 Data.

Sir,

With reference to G.O. No. 1455 W, dated 15th June 1895 and your last reminder No. 3359 C, dated 8th instant, I have the honor to submit the plans and estimate amounting to Rs 23,800 for constructing a suspension bridge across the Palar River at Vaniembady in the Salem District.

I have the honor to be,
Sir,
Your most obedt. servant,
J. Hannan
Supg. Engineer, 4 Circle.

Local & Municipal Dept.
CURRENT No. 111 M

From

The Supg. Engineer,
4th Circle.

Dated 18th } November 1895
Despd 19th }

No 445/W

Enclosures 8* (4* plans)

UNDER SECRETARY
11 JAN 96
PUBLIC W. D.

Suspension bridge across the Palar river at Vaniambady. Salem District.

Submits plans & estimate amounting to Rs 23,800 for Construct-ing a ——

900 M.L. 29-5-95
Cuo 2618 M/95 Lodged
1321 L. Mg. 5-7-95
923 L 26-7-94
906 L 12-7-93
2096 L 24-5-93
876 L 19-1-95
26 M.L. 9-1-95
7 M.L. 8-1-95
1422 M.L. 17-10-94
9126

Local & Municipal Dept.
CURRENT No. 111 M

PR

Recd: 20-11-95

, En: 8*
(*4 Tracings)

No 166 C of 10th Jany. 1896
Forwarded to the Local and Municipal Dept: with reference to G.O. No. 900 M. Mis dated 29th May 1895 and in continuation of this office No. 2529 C of 16th August 1895

D. McD. Campbell Lt Col. R.E.
Jt. Secy. to Govt
P.W.D.

C.M.M.
2/1/96

C.M.M.
20/11/95

Financial dept:

NOTE. Pr. L. & M. Dept

As the Budget has gone up to the Govt. of India and funds are available, it will be better to make the grant at once. The necessary addition will be made to the general order sanctioning Re-appropriations and altered grants for the current year, which is now in the Press. The loan should, if possible, be sanctioned this year, as there are savings, and no provision has been made next year. But can it be sanctioned at once without gazette notification ?

C.S.
17.2.96

J.D.
17/2/96

For orders.

The application for the loan must be published for at least one month before it is sanctioned. There is just time to do ~~so~~ before the end of the official year, if the appln. is prepared in this office & published at once. Submitted that this may be done in order to avoid alterations in next year's budget.

W.M.
17.ii.96

Very well
J.D.
18/2/96.

Office
Please prepare appln. [illegible]
W.M.
18-2-96

111 M

V. E

E

L & M. Dept

C. S.

CHIEF SECRETARIAT
15 FEB 1896
GOVERNMENT OF MADRAS

18/2

LOCAL AND MUNICIPAL DEPARTMENT.

Again G.O., No.900 M., dated 29" May 1895.

Current No. 111 M. of 95, dated 10" January 96,

From the Public Works Department.

FOR ORDERS.

Please see the notes and orders in G.O., No.900 M., dated 29" May 1895.

2. With the Endorsement read above the Public Works Department now forwards the plan and estimate + for a suspension bridge with a span of 200 feet and a road-way of only 10 feet. The Superintending Engineer estimates the cost of the bridge at Rs.23,800 and states that the cost of providing a greater width of road-way, has been found to be incommensurate with the advantage to be gained.

3. The Municipal Council has already stated that the funds required for the construction of the bridge will have to be raised by a loan from Government. If it is decided to grant a loan as requested by the Municipal Council it will have to pay annually a sum of Rs.1,418 towards the repayment of the loan in 30 years with interest at 4½%. This amount can be met from

+ Sent separately in a tin case.

I think we may give Rs 10000 & lend the rest. Presumably we can do this in '96-'97, or possibly it may be more convenient to do so in the current year. Ask F. D.

13/2/96

x Vide its resoln. in G.O. No. 900 M d/ 29.5.95

from the general revenues, seeing that the budget estimate for 1896-97 closes with a balance of Rs.4,610. The plan and estimate may therefore be approved and the Council asked to submit a formal application for the loan of the required amount.

I.R.
5/2/96

The estimated receipts for 96-97 are Rs. 21,710. With such a small ~~expend~~ income, Rs 1420 for the next 30 years is rather a large sum for the Municipality to pay, & will be rather a tax on ~~their~~ its resources. In his note in G.O. No 900 M 29.5.95 H. M. suggested a grant from Provincial funds towards the cost of the bridge. If Rs 10,000 are given, the balance of Rs 13.800 can be paid off in instalments of Rs 822, or 4 per-cent. of the total Munl. receipts, which could easily be afforded. There was some talk ~~[illegible]~~ about funds being raised by private subscription, but this has apparently fallen through (owing perhaps to the imposition of the tax on arts) as the further report promised by the Chairman on 12.12-94 has not yet been received

W.H.S.
6.11.96

H.M. For orders

S.A. 11/2/96

R 10.2.96

Suspension bridge over the Palar

Vaniyambadi.

FOR ORDERS.

111 m

H.M

308 m

Infd. 21/2/96

× put up.

Q in G.O. 900 M
29.5.95

[G. / 24.]
1,000—15-11-95.

DEPARTMENT.

Papers to be read in proceedings :—

Again G.O., dated 29. 5-95 1895, No. 900 M

Again G.O., dated 189 , No.

Current No. 111 m of 1896, dated 10th Jany, from P. W. D.

" " " 189 , " , "

" " " 189 , " , "

ORDER. No. 308 m d/ 21-2-96

The plan & estimate for Rs 23,800, forwarded by the P.W.D. ~~with the above current~~ are sanctioned. A grant of Rs 10,000 from Provincial Funds will be made to the Munl. Council, & the balance of Rs 13,800 will be advanced as a loan at 4¼ per cent. payable in 30 years.

2. The Council should draw the amount of the grant at once, & as it is advisable that the loan should also be advanced in the current year, an ×application in the prescribed form will be published at once in the Ft. St. George Gazette, so as to allow ~~of~~ the Council, in the absence of any objections, to draw ~~ing~~ the amount before 31st March 1896.

3. The chairman will be requested to report at a very early date whether any of the promised subscriptions referred to in his letter No. 23 of 25.3.95 ~~that were promised~~ are forthcoming, as a contribution of

24½ per cent. will have to be paid to the P.W.D. for the execution & supervision of the work in addition to the amount of the estimate now sanctioned.

(from orders) LD
20/2/96

WWD
20. ii. 96

~~Communicated to the P.W.D. with the request that information may be given to~~ intimated

4. The Public Works Dept. will be requested to state whether ~~that Dept.~~ it can execute the work at an early date, & whether the total amount of 24½ per cent. will be required as contribution for supervision & tools & plant.

LD

WWD
20. ii. 96

Suspension Bridge at Vaniyambadi

FROM ORDERS.

C. S.

To
The Chairman, M.C. Vaniyambadi
" Collector of Salem.
" Accountant General
" Financial Departt.
" P.W. Department - with plans & estimate
Gazette 25/2/96.
25/2/96
Despd. 6/3/96

+ [illegible]

Application of the Vaniyambadi Municipal Council for a loan from Government under Section 5 of the Local Authorities Loans Act, 1879.

The work or works for the construction or repair of which the loan is required & an estimate of the cost thereof.	The amount which it is proposed to borrow.	The fund or funds on the security of which it is proposed to borrow.	The law or laws under which the said fund or funds is, or are levied, received or held.	The period for which the loan is required, the number and amount of the instalments, if any, in which it is proposed that the loan shall be taken, the dates proposed for receiving such instalments, & the instalments, if any, in which it is proposed to repay the loan.	A detailed account of the revenue & expenditure of local authority for the three last preceding years.	Existing prior charges upon the funds of the local authority.
Construction of a Suspension Bridge over the Palar. Rs 23,800.	Rs 13,800	Vaniyambadi municipal fund.	The District Municipalities Act IV of 1884 (Madras)	(1) The loan is required for a period of 30 years. (2) It is proposed to be taken in one instalment, in March 1896, and repaid with interest at 4¼ per cent, in 30 equal instalments of Rs. 822.	Attached herewith.	None
8	6	7	12		8	6

WWD
20. ii. 96

9

1082

~~LOCAL AND MUNICIPAL DEPARTMENT.~~

9

~~Papers to be read in Proceedings :—~~

~~Current No. of 189 , dated from the~~
~~Current No. of 189 , dated from the~~
~~Current No. of 189 , dated from the~~
~~Current No. of 189 , dated from the~~

Detailed account of the Revenue and ~~Order~~ Expenditure of the Vaniyambadi

The ~~estimated~~ receipts and ~~charges of the~~ Municipality for the years ~~189 -9 , as passed by Government, are compared below with the budget and revised estimates for the year and the actuals of 189 -9~~ 1892-93 1893-94 and 1894-95. —

	~~Actuals,~~ 1892-93.	~~Budget~~ Estimate, 1893-94	~~Revised Estimate,~~ 1894-95.	~~189 -9~~.
	Rs	Rs.	Rs.	Rs.
Receipts.				
~~Balance brought forward~~ stet	1889	1312	3328	
Tax on Arts	..	..	..	
Tax on Buildings and Lands	5143	7963	8457	
Water-Tax on Buildings and Lands	..	..	..	
Tax on Vehicles and Animals	195	235	286	
Tax on Carts	382	388	497	
Tolls	1888	2268	3364	
Realizations under Special Acts	..	..	..	
Rent of Lands, Buildings, &c , and sale-proceeds of Lands,&c.	243	342	143	
Conservancy Receipts	12	29	7	
Fees and Revenue from Educational Institutions ..	141	123	162	
Fees and Revenue from Medical Institutions	..	..	2	
Income from Markets and Slaughter-houses	847	968	1035	
License fees	191	293	225	
Other fees	14	8	7	
Fines under Municipal and other Acts	301	653	1185	
Interest on Investments and premium on Loans ..	..	..	..	
Grants and Contributions from Government	104	31	4	
Do. from Local Boards	714	718	379	
Do. from other bodies	..	..	~~343~~	
Recoveries for services to private individuals	78	126	343	
Miscellaneous	8	39	21	
Loans	..	..	..	
Sale-proceeds of Government Securities, &c., and Realizations of Sinking Fund	..	..	..	
Advances Recovered	—	26	10	
Total ..	12090	15516	19405	

26.11.96

Charges.	Actuals, 1892-93.	Budget Estimate, 1893-94.	Revised Estimate, 1894-95	189 -9
	Rs.	Rs.	Rs.	Rs.
Grant I.				
New Works—				
Communications	31	..	39	
Buildings	464	582	2040	
Drainage	..	..	..	
Water-supply	30	..		
Miscellaneous Public Improvements		..	10	
Repairs—				
Communications	957	1309	1473	
Buildings	249	38	15	
Drainage	..	..	..	
Water-supply	344	350	400	
Establishment	199	234	288	
Tools and Plant and other Stores	3	27	16	
Contributions for Public Works	..		..	
Total	2277 ✓	2590 ✓	4281 ✓	
Grant II—				
Training Schools	90	..	..	
Municipal Schools—				
(*a*) On the Salary System	..	..	..	
(*b*) On the Salary Result System	923	1147	1150	
Salary Grants	418	420	383	
Result Grants	83	132	140	
Combined Grants	..	..	..	
Inspection	111	137	125	
Miscellaneous	61	11	6	
Total	1686 ✓	1847 ✓	1804 ✓	
Grant III—				
Hospitals and Dispensaries	1435	1435	1519	
Contributions	66	60	125	
Vaccination	244	232	208	
Registration of Births and Deaths	109	105	168	
Conservancy, Road-cleaning and Road-watering	2780	3143	3488	
Total	4634 ✓	4975 ✓	5508 ✓	
Grant IV—				
Lighting	593	510	598	
Markets and Slaughter-houses			..	
Choultries			..	
Traveller's Bungalows			..	
Avenues			..	
Public Garden, Survey of Land, Fire and other charges.	480	929	1145	
Total	1073 ✓	1439 ✓	1743 ✓	
Grant V—				
Supervision and Management	1082	1337	2193	
Repayment of Debt			..	
Interest on loan			..	
Advances Recoverable	26		23	
Refunds			..	
Discount			..	
Pensions and Gratuities			..	
Investments			..	
~~Balance~~	1312	3328	3853	
Total	12090 ✓	15516 ✓	19405 ✓	

No. 308 M., 21st February 1896.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

Read—again the following paper:—

G.O., Mis. No. 900 M., dated 29th May 1895.

Read—the following letter from J. T. GILLESPIE, Esq., C.S., Chairman, Municipal Council, Vániyambádi, to the Chief Secretary to Government (through the Collector of Salem), dated 25th March 1895, Ref. on No. 23-Eng.:—

With reference to G.O., Mis. No. 26 M., dated 9th January 1895, and in continuation of my letter, Reference on No. 1023-Eng., dated 12th December last, I have the honour to state that in spite of many reminders to Jainulabdin Sahib, a municipal councillor, who promised to collect subscriptions from the people towards the construction of a bridge over the Pálár river, he did not give me any reply till the 14th February last, on which date he wrote to me stating that, as many of the rich residents were away, he could not send his final report. From the conversation I held with him at the last four or five meetings, I learn that the levy of professional tax in the coming year, as already sanctioned, will have a tendency to check private liberality. Being of opinion that further delay in the matter would only be a waste of time, I brought the subject before the council at its meeting held on the 11th instant. The council concur with my opinion that the levy of professional tax will check private liberality and is of opinion that the only course open to them is to raise a loan from Government for the purpose of building the Pálár bridge. Even if any subscriptions should come in, they will not, in all probability, amount to more than about four thousands of rupees, and this of course falls far short of the estimated cost of construction, viz., Rs. 24,000. It is unnecessary for me to explain again that it is beyond the means of the council to spend such a large sum as Rs. 24,000 for a bridge.

2. I therefore request that the Government will be pleased to comply with the request of the council in the matter of raising a loan. The council will be prepared to pay Rs. 1,200 every year (beginning from 1896-97), including the interest, and I beg to point out, as desired by the council, that, unless this is done, it is impossible to do anything in the matter for some years to come.

3. A copy of the council's resolution on the subject accompanies.

Endorsement, No. 148-Sub.

Forwarded.

2. The matter of providing a bridge is one of urgency having regard to the safety of the town. If the municipality will raise a loan for the purpose, I think it would be advisable to help them as far as possible.

3rd April 1895.

(Signed) G. STOKES,
Collector.

Order—Mis. No. 900 M., dated 29th May 1895.

The papers will be forwarded to the Public Works Department with the request that detailed plans and estimates for the proposed suspension bridge may be prepared.

2. It is observed that the Superintending Engineer's letter, No. 495 M., dated 12th December 1894, speaks of a bridge with a roadway of only ten feet. The Public Works Department will be requested to consider whether this is not too narrow for a bridge 200 feet long, as carts could hardly pass one another in that width, and whether the roadway should not measure at least twelve feet.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Municipal Council, Vániyambádi (through the Collector of Salem).
" Public Works Department.

Read—also the following paper:—

From J. HANNAN, Esq., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 18th November 1895, No. 445-W.

With reference to G.O., No. 1455 W., dated 15th June 1895, and your last reminder, No. 3359-C., dated 8th instant, I have the honour to submit the plans and estimate amounting to Rs. 23,800 for constructing a suspension bridge across the Pálár river at Vániyambádi in the Salem district.

Enclosure.

Report to accompany the estimate for constructing a suspension bridge across the Pálár river at Vániyambádi in the Salem district.

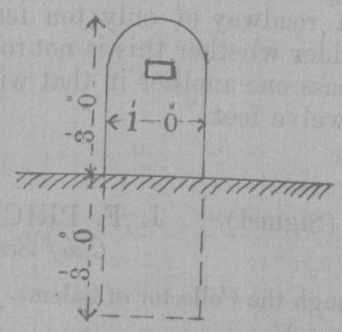
The plan and estimate were called for in G.O., No. 1455 W., dated 15th June 1895.

The plan and estimate now submitted are for a 200-feet span suspension bridge similar in every respect to the Kullar bridge.

The width of the roadway is the same, viz., ten feet. The cost of providing a greater width would, it was found, be incommensurate with the advantage. Like the Kullar bridge, owing to insufficient headway this bridge cannot be stayed to prevent undulation. It could be made stiffer by giving a smaller dip to the cables, but on going into the matter it was found that the extra cost would be incommensurate with the advantage gained. The Pálár river divides itself into two branches about $2\frac{1}{4}$ miles above the site of the proposed bridge. The right branch again bifurcates about $\frac{1}{4}$ mile above the site of bridge as shown in the accompanying sketch. It is over the right branch of the latter bifurcation, known as the Govindapuram river, that proposed bridge is to be built. The area drained by the river above its first bifurcation is 1,320 square miles and the discharge from this area as given by the formula $D = 450\ M^{\frac{3}{4}}$ will be in round figures 54,000 feet per second. It will be well on the safe side if the branch to be bridged is assumed to take $\frac{1}{3}$rd of this or 18,000 feet per second. The discharge of this branch as calculated from two sections, one taken at site of bridge and the other at 2,200 feet above it with reference to the maximum flood level as well as it can be now ascertained is 15,000 feet per second arrived at as follows:—

Mean area of sections $= (130 + 12 \times 3) \times 12 = 1{,}992$ square feet.
H. R. M. $=$ R. $= \frac{1992}{205.84} = 9{\cdot}67$.
Surface fall $= S = \frac{1.5}{2200} = {\cdot}0006818$.
$V = 90\ 8 \sqrt{9{\cdot}67 \times 0006818} = 7{\cdot}36$.
$D = 7{\cdot}36 \times 1992 = 14{,}661$ or, say, 15,000.

With a head at the bridge of two inches the discharge will be 19,800 feet per second. The bridge towers will be founded on surki concrete six feet thick resting on clay six feet below the deep bed of river.



The superstructure will be of table moulded brick in surki mortar. The masonry work will be carried out in accordance with the standard specification.

The road embankment from the towers to the anchoring chamber will be protected with rail fences consisting of old iron rails fixed in stone uprights.

(Signed) J. HANNAN,
Superintending Engineer, IV Circle.

No. 166-C.

Forwarded to the Local and Municipal Department with reference to G.O., Mis. No. 900 M., dated 29th May 1895, and in continuation of this office No. 2529-C., dated 16th August 1895.

(Signed) D. Mc. NEIL CAMPBELL, Lieut.-Col., R.E.,
Joint Secretary to Government, P.W.D.

10th January 1896.

Order—No. 308 M., dated 21st February 1896.

The plan and estimate for Rs. 23,800, forwarded by the Public Works Department, are sanctioned. A grant of Rs. 10,000 from Provincial funds will be made to the municipal council, and the balance of Rs. 13,800 will be advanced as a loan at $4\frac{1}{4}$ per cent. interest repayable in thirty years.

2. The council should draw the amount of the grant at once, and, as it is advisable that the loan should also be advanced in the current year, an application in the prescribed form will be published at once in the *Fort St. George Gazette*, so as to allow the council, in the absence of any objections, to draw the amount before 31st March 1896.

3. The Chairman will be requested to report, at a very early date, whether any of the promised subscriptions referred to in his letter, No. 23, dated 25th March 1895, are forthcoming, as a contribution of $24\frac{1}{2}$ per cent. will have to be paid to the Public Works Department for the execution and supervision of the work in addition to the amount of the estimate now sanctioned.

4. The Public Works Department will be requested to state whether it can execute the work at an early date, and whether the total amount of $24\frac{1}{2}$ per cent. will be required as contribution for supervision and tools and plant.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chairman, Municipal Council, Vániyambádi.
" Collector of Salem.
" Accountant-General.
" Financial Department.
" Public Works Department.
Gazette.

APPENDIX.

Application of the Vániyambádi Municipal Council for a Loan from Government under section 5 of the Local Authorities Loans Act, 1879.

The work or works for the construction or repair of which the loan is required and an estimate of the cost thereof.	The amount which it is proposed to borrow.	The fund or funds on the security of which it is proposed to borrow.	The law or laws under which the said fund or funds is or are levied, received or held.	The period for which the loan is required, the number and amount of the instalments, if any, in which it is proposed that the loan shall be taken, the dates proposed for receiving such instalments, and the instalments, if any, in which it is proposed to repay the loan.	A detailed account of the revenue and expenditure of local authority for the three last preceding years.	Existing prior charges upon the funds of the local authority.
Construction of a suspension bridge over the Pálár. Rs. 23,800.	RS. 13,800	Vániyambádi Municipal fund.	The District Municipalities Act IV of 1884 (Madras).	(1) The loan is required for a period of thirty years. (2) It is proposed to be taken in one instalment in March 1896, and repaid with interest at 4¾ per cent. in thirty equal instalments of Rs. 822.	Attached herewith.	None.

Detailed account of the Revenue and Expenditure of the Vániyambádi Municipality for the years 1892–93, 1893–94 and 1894–95.

Receipts.	1892–93.	1893–94.	1894–95.
	RS.	RS.	RS.
Balance brought forward	1,889	1,312	3,328
Tax on Buildings and Lands	5,143	7,963	8,457
„ on Vehicles and Animals	195	235	286
„ on Carts	382	388	497
Tolls	1,888	2,268	3,364
Rent of Lands, Buildings, &c., and Sale-proceeds of Lands, &c.	243	342	143
Conservancy Receipts	12	23	7
Fees and Revenue from Educational Institutions	141	123	162
„ „ from Medical Institutions	..	..	2
Income from Markets and Slaughter-houses	847	968	1,035
License Fees	191	293	225
Other Fees	14	8	7
Fines under Municipal and other Acts	301	653	1,135
Grants and Contributions from Government	104	31	4
„ „ from Local Boards	714	718	379
Recoveries for Services to private Individuals	18	126	343
Miscellaneous	8	39	21
Advances Recovered	..	26	10
Total	12,090	15,516	19,405

Detailed account of the Revenue and Expenditure, &c.—*cont.*

Charges.	1892–93.	1894–95.	1893–94.
Grant I—	RS.	RS.	RS.
New Works—			
Communications	31	..	39
Buildings	464	582	2,040
Water-supply	30	..	..
Miscellaneous Public Improvements	..	..	10
Repairs—			
Communications	957	1,309	1,473
Buildings	249	38	15
Water-supply	344	350	400
Establishment	199	284	288
Tools and Plant and other Stores	3	27	16
Total	2,277	2,590	4,281
Grant II—			
Training Schools	90	..	..
Municipal Schools—			
On the Salary-result System	923	1,147	1,150
Salary Grants	418	420	383
Result Grants	83	132	140
Inspection	111	137	125
Miscellaneous	61	11	6
Total	1,686	1,847	1,804
Grant III—			
Hospitals and Dispensaries	1,435	1,435	1,519
Contributions	66	60	125
Vaccination	244	232	208
Registration of Births and Deaths	109	105	168
Conservancy, Road-cleaning and Road-watering	2,780	3,143	3,488
Total	4,634	4,975	5,508
Grant IV—			
Lighting	593	510	598
Public Garden, Survey of Land, Fire and other charges	480	929	1,145
Total	1,073	1,439	1,743
Grant V—			
Supervision and Management	1,082	1,337	2,193
Advances Recoverable	26	..	23
Balance	1,312	3,328	3,853
Total	12,090	15,516	19,405

Exd. A. Baitt.

Govt. of {1896} Madras.

LOCAL AND MUNICIPAL.

Issued

Recd. *Encl.*

G.O., No. 308 M., 21st Feb. 1896.

FEBRUARY.

Suspension Bridge over the Palar River in Vaniyambadi.

Sanctioning, with remarks, the plan and estimate for Rs. 23,800 for the construction of a —, ordering the publication in the *Fort St. George Gazette* of an application for a loan of Rs. 13,800 from Government required for this purpose, and requesting the Public Works Department to state whether it can execute the work at an early date and whether the usual contribution for supervision and tools and plant will be required.

L. & M.