(1) பக்கங்களின் எண்ணிக்கை 44.
(2) புதுக்கித் திருப்பிய நாள் 23.4.90
(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

(6)

P.W.D. துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	3615	அச்சகம் பலவகை
நாள் :	19 - 12 - 1889 ~~198~~.	

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

22 - Sheets

ஆவண. கா-1—18,000—15-6-87.

3615

19th December 1889, No. 3615 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From Major D. McNEIL CAMPBELL, R.E., Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 4th September 1889, No. 1504 G.D.

With reference to your notes embodied in Proceedings of Madras Government, No. 697 C., dated 12th February 1889, a copy of which has been furnished to me by the President, Local Fund Board, Godávari District, I have the honor to forward herewith a revised plan and an estimate, the latter amounting to Rs. 26,262, prepared by Messrs. Richardson and Cruddas, together with the marginally noted letters from the Local Fund Engineer to the President, District Board, for constructing an iron girder bridge at Mattalapalem, and to request that you will be so good as to obtain the sanction of Government to the same, as by G.O., No. 1964 W., dated 20th July 1889, the Local Funds are not bound to abide by type designs, and therefore the objections made in your notes do not now hold good.

No. 30, dated 16th May 1889.
No. 107, dated 20th July 1889.

From J. D. GRANT, Esq., Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 19th November 1889, No. 2091 G.D.

With reference to your endorsement No. 4210 C., dated the 19th September 1889 (herewith returned), on this office letter No. 1504 G.D., dated the 4th idem, I have the honor to return herewith the estimate, which is now countersigned by the President and myself, for constructing Mattalapalem bridge. The plan has been sent to the President for countersignature and it will be submitted to you as soon as it is received from him.

2. As regards the construction of the bridge on screw piles, I herewith submit the Local Fund Engineer's letter No. 202, dated the 31st October 1889, to the President, from which it will be observed that the reason for its being so constructed is that the bottom of the tidal creek is muddy and considerable expense will in consequence have to be incurred in making coffer dams with which to build masonry piers, and I see no reason to differ from the Local Fund Engineer's opinion.

From the same Officer, dated Dowlaishweram, 28th November 1889, No. 2150 G.D.

In continuation of my letter No. 2091 G.D., dated the 19th November 1889, I have the honor to submit herewith the plan of the Mattalapalem bridge which is now countersigned by the President and myself.

From the same Officer, dated Dowlaishweram, 7th December 1889, No. 2224 G.D.

With reference to G.O., No. 3399 W., dated the 28th November 1889, I have the honor to state that, in the statement of works which accompanied it, the construction of an iron girder bridge over the Mattalapalem salt creek for Rs. 30,850 is put down as a work to be executed by this department, but I beg to invite your attention to my letter No. 2565 G.D., dated the 18th December 1888, from which it will be seen that the work has been recommended to be carried out by the Local Fund Department. I therefore request that you will be so good as to arrange to have the needful correction made in the statement.

Order—dated 19th December 1889, No. 3615 W., Public Works.

The revised estimate, amounting to Rs. 26,262, for constructing an iron girder bridge over the Mattalapalem salt creek in the Godávari district, is sanctioned in supersession of the estimate of Rs. 30,850 sanctioned in G.O., No. 1405 W., dated 23rd May 1887.

2. The work will be carried out by the Godávari District Board's Engineer.

3. A sum of Rs. 30,850 having been allotted for the work in the Canal and Ferry Fund budget for 1890-91—*vide* G.O., No. 914 * (Revenue), dated 16th November 1889—the grant to be provided for the work in the Public Works Incorporated Local Fund budget for 1890-91 will be reduced to Rs. 26,262.

* G.O., No. 3399 W., dated 28th Nov. 1889.

4. The sanction accorded in para. 1 of these Proceedings has been registered as Incorporated Local No. 33 W. of 1889-90, and classified as Communication, Original Works.

(True Extract.)

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

To the Superintending Engineer, I Circle.
" Examiner, Public Works Accounts, with copy of the abstract estimate.
" Revenue Department.
" Local and Municipal Department, with two enclosures.

Exd. J. Moses.
Spare Copies

3615

BUILDINGS AND ROADS.
CIVIL WORKS.

Gobt. of {1889} Madras.

PUBLIC WORKS.

Dated December, 19th.

Recd. *Encl.*

G.O., 19th Dec. 1889, No. 3615 W.

DECEMBER.

Girder Bridge over the Mattalapalem Salt Creek, Godavari District

Revised estimate, amounting to Rs. 26,262, for constructing an iron —, sanctioned.

3615

16th November 1889, No. 914, Revenue.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—the following Proceedings of the Board of Revenue (Land Revenue), dated 15th October 1889, No. 727 :—

Mr. H. W. Bliss.
Mr. W. S. Whiteside.

Read—the following papers :—

From the Collector of Arcot, South,	dated 18th September 1889,	No. 2159.
" " of Canara, South,	" 31st August "	" 3323.
" " of Cuddapah,	" 23rd September "	" 7417.
" " of Godávari,	" 31st August "	" 342.
" Superintending Engineer, I Circle,	" 12th September "	" 1563-G.D.
" Collector of Kistna,	" 5th " "	" 5607.
" " of Malabar,	" 31st August "	" 3417-R.
" " of Tanjore,	" 27th " "	" 344.
" " of Tinnevelly,	" 5th September "	" 810.
" " of Trichinopoly,	" 29th August "	" 357-4.

Resolution—dated 15th October 1889, No. 727.

The Board resolve to submit to Government the revised estimate of receipts and charges of the Canal and Ferry Fund for the current year, and the budget estimate for the ensuing year.

2. *Revised estimate for* 1889-90.—The following abstract compares the revised estimate with the sanctioned figures. The opening balance has been adopted from the Special Fund Report for 1888-89 :—

Districts.	Receipts.				Charges.		Balance.
	Balance at the beginning of 1889-90.	Revised estimated receipts during the year 1889-90.	Sanctioned estimate of receipts, 1889-90.	Total of columns 2 and 3.	Revised estimated expenditure during the year 1889-90.	Sanctioned estimate of expenditure, 1889-90.	
1	2	3	4	5	6	7	8
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. Arcot, South	4,044	961	950	5,005	2	10	5,003
2. Canara, South	14	23,230	22,230	23,244	23,230	22,230	14
3. Cuddapah	3,197	981	850	4,178	180	180	3,998
4. Godávari	1,70,492	32,820	32,820	2,03,312	73,902	64,915	1,29,410
5. Kistna	21,804	7,500	7,000	29.304	19,120	7,550	10,184
6. Malabar	61	61,000	61,000	61,061	60,912	61,000	149
7. Tanjore	1,716	6,120	6,120	7,836	6,100	6,100	1,736
8. Tinnevelly	1,077	120	120	1,197	20	20	1,177
9. Trichinopoly	700	10,800	11,200	11,500	10,200	10,200	1,300
Total ..	2,03,105	1,43,532	1,42,290	3,46,637	1,93,666	1,72,205	1,52,971

3. The probable receipts for the current year have been estimated at Rs. 1,43,532 or Rs. 1,242 in excess of the sanctioned figures. The following districts present variations as detailed against them :—

	RS.		RS.
Arcot, South	+ 11	Trichinopoly	— 400
Canara, South	+ 1,000		
Cuddapah	+ 131		
Kistna	+ 500		
Total ...	+ 1,642		

3

The estimate in South Canara is framed on the average collections of the past three years, and the expected increase of revenue on account of the extension of ferries; and in Kistna, the current year's rental realized has been adopted. The decrease in Trichinopoly is due to there having been no such increase in ferry rents as was anticipated, and also to crediting a portion of the collections on account of the current year's lease in the previous year.

4. *Charges.*—The probable charges are estimated at Rs. 1,93,666 against the sanctioned figure of Rs. 1,72,205, exhibiting a net increase of Rs. 21,461, as noted below :—

	RS.		RS.
Canara, South	+ 1,000	Arcot, South	— 8
Godávari	+ 8,987	Malabar	— 88
Kistna	+ 11,570		
Total ...	+ 21,557	Total ...	— 96

The difference in Kistna represents the provision for the construction of a bridge over Ryves' canal at Bezváda, sanctioned by Government in their order, dated 10th July 1889, No. 4309, Mis. The increase in South Canara is chiefly due to the larger amount proposed to be contributed to Local Funds. The provision of Rs. 3,063 for expenditure on the ferry steamer at Rajahmundry and of Rs. 2,170 for constructing a wharf at the steam ferry landing place is the main cause of the increase in Godávari. The Board observe that the Executive Engineer in his letter, dated 4th May 1889, No. 545, printed in G.O., dated 30th July 1889, No. 2049 W., considered that a sum of Rs. 290 would be sufficient to meet the expenses connected with the ferry steamer during the current year. It is not clear why the Collector has now allotted for it as much as Rs. 3,063. He will report further.

5. The details of expenditure in Godávari are exhibited below :—

	Sanctioned estimate.	Revised estimate.
	RS.	RS.
(1) Establishment and working charges of the Rajahmundry steam ferry	9,000	9,300
(2) Construction of bridges across irrigation canals and drains	6,000	6,522
(3) Construction and repair of ferry-boats	12,210	12,670
(4) Do. do. of rest-houses	740	740
(5) Do. of an aqueduct over the Chollanghi river	4,000	4,000
(6) Improvement of landing places	470	470
(7) Construction of a steam launch for the Rajahmundry ferry	25,000	25,000
(8) Repairs to Kovur-Munjair junction canal	5,000	5,000
(9) Repair of ferry boats on do.	200	200
(10) Clearing silt in the old loading channel at Dowlaishweram	...	100
(11) Construction of a wharf at the steam ferry landing place at Rajahmundry	..	2,170
(12) Construction of a ferry steamer for the Rajahmundry ferry	...	3,063
(13) Establishment and miscellaneous charges	90	90
(14) Cost of supervision, tools and plant	2,205	4,577
Total ...	64,915	73,902

The differences against items (11) and (12) have already been accounted for in the foregoing paragraphs. The variation in item I represents the cost of certain articles of English manufacture required for the Godávari steamer.

6. *Budget estimate for* 1890-91.—The receipts and charges during the year as estimated by the Collectors aggregate Rs. 1,41,330 and Rs. 1,82,580, respectively.

	Receipts.	Charges.
	RS.	RS.
(1) Arcot, South	950	...
(2) Canara, South	23,730	23,730
(3) Cuddapah	830	180
(4) Godávari	30,100	72,950
(5) Kistna	7,500	7,500
(6) Malabar	61,000	61,000
(7) Tanjore	6,120	6,100
(8) Tinnevelly	100	20
(9) Trichinopoly	11,000	11,100
Total ...	1,41,330	1,82,580

It will be observed from the foregoing figures that the charges in South Canara, Kistna and Malabar districts are equal to the receipts, and that in Tanjore and Trichinopoly they are very nearly so.

7. *Receipts.*—Compared with the revised figures, the receipts exhibit a net decrease of Rs. 2,202. It occurs chiefly in Godávari where the estimate is based on the average of three years. As against this decrease, South Canara shows an increase of Rs. 500, which is due to the reason assigned in paragraph 3 *supra*. The fluctuations in other districts are small and call for no remarks.

8. *Charges.*—The charges are estimated to amount to Rs. 1,82,580 or Rs. 11,086 less than the revised figures for 1889-90. The variations principally occur in the districts noted below :—

	RS.		RS.
Kistna	— 11,620	South Canara	+ 500
Godávari	— 952	Trichinopoly	+ 900
	— 12,572		+ 1,400

The decrease in Kistna is not explained, but apparently is due to the extraordinary provision made in 1889-90 for the construction of the bridge already referred to. In Trichinopoly, the contribution to Local Funds has been placed at a high figure with reference to the probable balance at the close of the year. At the instance of the Collector of Godávari, the Superintending Engineer has applied to the Board for allotment of funds on account of the following works proposed to be executed through the agency of the Public Works Department during the next official year :—

	RS.
(1) Constructing an aqueduct over Chollanghi river, sanctioned in G.O., dated 16th March 1889, No. 811 W.	3,500
(2) Maintenance of the Kovur-Munjair junction canal	5,000
(3) Repair of ferry boats on do. do.	200
(4) Repairing the old loading channel at Dowlaishweram	100

These will accordingly be provided in modification of the amount provisionally entered by the Collector. The most expensive provision made is one of Rs. 25,000 for a steamer for the Narsápur ferry

9. The amount proposed to be contributed to Local Funds during 1890-91, compared with that provided for the current year, is detailed below :—

	Revised estimate for 1889-90.	Budget estimate for 1890-91.
	RS.	RS.
(1) South Canara	15,335	19,430
(2) Kistna	1,000	1,000
(3) Malabar	58,912	59,100
(4) Tanjore	5,800	5,800
(5) Trichinopoly	11,000	11,000
Total ...	92,047	96,330

No reason is assigned by the Collector of South Canara for the large increase in his district. It is presumed that the order of Government discontinuing the contribution to the Mangalore Municipality, coupled with the diminished provision under construction of ferry boats and platforms, &c., during the current year, will leave a larger surplus balance available for transfer during the ensuing year.

10. The subjoined statement exhibits the estimated receipts and charges of the fund for 1890-91:—

Districts.	Balance at the beginning of 1890-91.	Receipts during the year.	Total.	Expenditure during the year.	Balance at the end of 1890-91.
	RS.	RS.	RS.	RS.	RS.
1. Arcot, South	5,000	950	5,950	..	5,950
2. Canara, South	10	23,730	23,740	23,730	10
3. Cuddapah	4,000	830	4,830	180	4,650
4. Godávari	1,29,410	30,100	1,59,510	72,950	86,560
5. Kistna	10,180	7,500	17,680	7,500	10,180
6. Malabar	150	61,000	61,150	61,000	150
7. Tanjore	1,740	6,120	7,860	6,100	1,760
8. Tinnevelly	1,180	100	1,280	20	1,260
9. Trichinopoly	1,300	11,000	12,300	11,100	1,200
Total ..	1,52,970	1,41,330	2,94,300	1,82,580	1,11,720

The year is expected to close with a balance of Rs. 1,11,720 to the credit of the fund, of which Rs. 86,560 appertain to Godávari. This, however, will be reduced if Government accord their sanction to the proposals submitted with Board's Proceedings, dated 23rd September 1889, No. 5785, Mis.

APPENDIX.

Estimate of expenditure of Canal and Ferry Fund for 1890-91.

Districts.	Items.	Allotment for 1890-91.		
		By Public Works Department.	By Revenue Department.	Total.
		RS.	RS.	RS.
Godávari ..	Establishment and working charges for the ferry steamer at Rajahmundry	..	9,000	
	Construction of bridges across irrigation canals and drains	12,000	..	
	Construction and repair of ferry boats	..	12,000	
	Do. do. of rest-houses	..	500	
	Do. of an aqueduct over the Chollanghi river ..	3,500	..	
	Improvement of landing places	..	500	
	Construction of a steam launch for the Narsápur ferry ..	25,000	..	
	Maintenance of Kovur-Munjair junction canal	5,000	..	
	Repair of ferry boats on do.	200	..	
	Clearing silt in the old loading channel at Dowlaishweram	100	..	
	Cost of supervision and tools and plant	5,047	..	
	Establishment and miscellaneous charges	..	100	72,947
Kistna	Construction and repair of ferry boats	..	6,000	
	Contribution to Local Funds	..	1,000	
	Establishment and miscellaneous charges	..	500	7,500
South Canara ..	Construction and repair of boats and platforms ..	..	2,000	
	Do. do. of ferry and jangar sheds ..	..	1,100	
	Establishment	..	500	
	Contribution to Local Funds	..	19,430	
	Miscellaneous	..	600	23,730

365

Estimate of expenditure of Canal and Ferry Fund for 1890-91—*cont.*

Districts.	Items.	Allotment for 1890-91.		
		By Public Works Department.	By Revenue Department.	Total.
		RS.	RS.	RS.
Cuddapah ..	Construction of boats and contingencies	..	180	180
Malabar	Establishment and miscellaneous charges	..	1,900	
	Contribution to Cochin Municipality	..	1,800	
	Do. to Local Funds	..	57,300	61,000
Tanjore	Establishment and miscellaneous charges	..	100	
	Contribution to Local Funds	..	5,800	
	Construction and repair of boats	..	200	6,100
Tinnevelly ..	Miscellaneous establishment	..	20	20
Trichinopoly ..	Contribution to Local Funds	..	11,000	
	Establishment and miscellaneous charges	..	100	11,100
	Total ..	..	..	1,82,577
	Or in round numbers ..	..	..	1,82,580

(True Extract.)

(Signed) M. HAMMICK,
Secretary.

To the Secretary to Government, Revenue Department.
Copy to the Collector of South Arcot.
" " " of South Canara.
" " " of Cuddapah.
" " " of Godávari.
" " " of Kistna.
" " " of Malabar.
" " " of Tanjore.
" " " of Trichinopoly.
" " " of Tinnevelly.
" " Accountant-General.
" " Examiner of Public Works Accounts.

Read—the following office-note from the Acting Secretary to Government, Revenue Department, to the Secretary to Government, Public Works Department, dated Fort St. George, 30th October 1889, No. 55:—

In forwarding herewith the budget estimate of receipts and charges of the Canal and Ferry fund for 1890-91, as prepared by the Board of Revenue, the undersigned has the honor to inquire whether it provides for all the works proposed to be executed by the Public Works Department during the next year from Canal and Ferry funds.

(Signed) J. GROSE.

Read—the following office-note from the Under Secretary to Government, Public Works Department, to the Secretary to Government, Revenue Department, dated Chepâk, 2nd November 1889, No. 5030-C:—

Your office-note No. 55, dated 30th October 1889.

The Superintending Engineers concerned have brought forward only the following works for inclusion in the Incorporated Local Fund budget for 1890-91 under Canal and Ferry funds.

5

	RS.
(1) Construction of an aqueduct over the Chollanghi river	3,500
(2) Maintenance of the Kovur-Munjair junction canal	5,000
(3) Repair of ferry boats on the Kovur-Munjair junction canal ...	200
(4) Repairs to the old loading channel at Dowlaishweram	100

2. The marginally-noted works proposed for execution by the Public Works Department in the Proceedings of the Board of Revenue received with your office-note under reply have not been included in the budget estimate submitted by the Superintending Engineer, I Circle. If, however, it is intended that the Public Works Department should execute the works, the necessary grants may be placed at the disposal of this department.

	RS.
Construction of bridges across irrigation canals and drains	12,000
Construction of a steam launch for the Narsápur ferry	25,000

3. To admit of the timely issue of the Incorporated Local Fund budget estimate of works to be carried out by the Public Works Department during 1890-91, it is requested that very early intimation may be given of the grants under Canal and Ferry funds inclusive of percentage charges for establishment and tools and plant.

4. The Proceedings of the Board of Revenue received with your office-note are herewith returned.

READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 7th November 1889, No. 6819, Mis.:—

MR. H. W. BLISS.

Read—endorsement of the Secretary to Government, Revenue Department, dated 5th November 1889, No. 7130, on office-note from the Under Secretary to Government, Public Works Department, dated 2nd November 1889, No. 5030-C.

Resolution—dated 7th November 1889, No. 6819, Mis.

The Board begs to state that the two works named on the margin of paragraph 2 of the office-note from the Public Works Department are intended to be executed by that department, and that they are so entered by the Collector in his budget estimate with reference to paragraph 4 of Board's Proceedings, dated 12th November 1888, No. 6642, Mis., read in G.O., dated 20th November 1888, No. 805.

(A true Extract.)

(Signed) M. HAMMICK,
Secretary.

To the Secretary to Government, Revenue Department,
with office-note of Under Secretary to Government,
Public Works Department (returned).

ORDER—dated 16th November 1889, No. 914, Revenue.

Miscellaneous.

With the first of the papers read above are forwarded the revised estimate of receipts and charges of the Canal and Ferry fund for the current year and the budget estimate for 1890-91.

2. *Revised estimate.*—The receipts vary but slightly from the sanctioned estimate (Rs. 1,43,532 against Rs. 1,42,290—sanctioned estimate). The estimate of charges requires modification. The Board has provided only Rs. 3,063 for the completion of the ferry steamer at Rajahmundry. The amount will be raised to Rs. 4,460 with reference to G.O., dated 17th October 1889, No. 847. From the provision (Rs. 4,577) made for cost of supervision and tools and plant, it is inferred that the work of constructing bridges across irrigation channels and drains in the Godávari district is proposed to be executed through the agency of the Public Works Department, although it was not so entered in the appendix to G.O., dated 20th November 1888, No. 805, Revenue. This amount will be increased by Rs. 343 on account of the increased provision made as above for completing the ferry steamer at Rajahmundry. As thus amended, the revised estimate of charges will stand at Rs. 75,642 for the Godávari district and at Rs. 1,95,406 for the whole Presidency. It is presumed that the cost of construction of a boat for the Tallapalem ferry (Rs. 460)—item "*f*" in paragraph 3 of Board's Proceedings, printed with G.O., dated 17th October 1889, No. 847—is included in the sum of Rs. 12,670 provided for construction and repair of boats in the revised estimate.

3. *Budget estimate for* 1890-91.—The receipts are estimated at Rs. 1,41,330 or Rs. 2,202 less than the revised estimate. The decrease occurs chiefly in the Godávari district, which is stated to be due to the estimate being based upon the average of three years. At the time of the preparation of the estimates, the Board had not received the orders of Government on their proposals for the utilisation of the balance in favor of the fund at the end of 1889-90 in the Godávari district. Those orders are contained in G.O., dated 17th October 1889, No. 847, and with reference thereto, provision will be made for the following works:—

	RS.
i. Construction of an iron-girder bridge over the Mattalapalem salt-creek	30,850
ii. Construction of three ballacuts	1,500
iii. Cost of supervision and tools and plant for (i)	7,558

The provision of Rs. 12,000 entered as for construction of bridges across irrigation channels and drains is, it is presumed, intended to meet the estimated outlay during the year on works (*b*) to (*e*) specified in paragraph 3 of the Board's Proceedings disposed of in G.O., dated 17th October 1889, No. 847, Revenue. The Board is requested to report upon the point. The estimate of charges as thus revised amounts to Rs. 1,12,855 for the Godávari district and to Rs. 2,22,488 for the whole Presidency.

4. The estimates, as modified and approved, and a statement of particulars of expenditure for 1890-91 are appended.

—	1889-90.					1890-91.				
	Balance at the beginning of the year.	Revised estimate of receipts.	Total.	Revised estimate of charges.	Balance at the end of the year.	Balance at the beginning of the year in round figures.	Receipts.	Total.	Charges.	Balance at the end of the year.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. Arcot, North	4,044	961	5,005	2	5,003	5,000	950	5,950	..	..
2. Canara, South	14	23,230	23,244	23,230	14	10	23,730	23,740	23,730	10
3. Cuddapah	3,197	981	4,178	180	3,998	4,000	830	4,830	180	4,650
4. Godávari	1,70,492	32,820	2,03,312	75,642	1,27,670	1,27,670	30,100	1,57,770	1,12,860	44,910
5. Kistna	21,804	7,500	29,304	19,120	10,184	10,180	7,500	17,680	7,500	10,180
6. Malabar	61	61,000	61,061	60,912	149	150	61,000	61,150	61,000	150
7. Tanjore	1,716	6,120	7,836	6,100	1,736	1,740	6,120	7,860	6,100	1,760
8. Tinnevelly	1,077	120	1,197	20	1 177	1,180	100	1,280	20	1,260
9. Trichinopoly	700	10,800	11,500	10,200	1,300	1,300	11,000	12,300	11,100	1,200
Total ..	2,03,105	1,43,532	3,46,637	1,95,406	1,51,231	1,51,230	1,41,330	2,92,560	2,22,490	70,070

Estimate of expenditure of Canal and Ferry Fund for 1890-91.

Districts.	Items.	Allotment for 1890-91.		
		By Public Works Department.	By Revenue Department.	Total.
		RS.	RS.	RS.
Godávari	Establishment and working charges for the ferry steamer at Rajahmundry	..	9,000	
	Construction of bridges across irrigation channels and drains	12,000	..	
	Construction and repair of ferry boats	..	12,000	
	Do. and repair of rest-houses	..	500	
	Do. of an aqueduct over the Chollanghi river	3,500	..	
	Improvement of landing places	..	500	
	Construction of a steam launch for the Narsápur ferry	25,000	..	
	Do. of an iron-girder bridge over the Mattapalem salt-creek	30,850	..	
	Do. of three ballacuts to be kept in stock	..	1,500	
	Maintenance of Kovur-Munjair junction canal	5,000	..	
	Repair of ferry boats on Kovur-Munjair junction canal	200	..	
	Clearing silt in the old loading channel at Dowlaishweram	100	..	
	Cost of supervision and tools and plant	12,605	..	
	Establishment and miscellaneous charges	..	100	1,12,855
Kistna	Construction and repair of ferry boats	..	6,000	
	Contribution to Local Funds	..	1,000	
	Establishment and miscellaneous charges	..	500	7,500
South Canara	Construction and repair of boats and platforms	..	2,000	
	Do. do. of ferry and jangar sheds	..	1,100	
	Establishment	..	600	
	Contribution to Local Funds	..	19,430	
	Miscellaneous	..	600	23,730
Cuddapah	Construction of boats and contingencies	..	180	180
Malabar	Establishment and miscellaneous charges	..	1,900	
	Contribution to Cochin Municipality	..	1,800	
	Do. to Local Funds	..	57,300	61,000
Tanjore	Establishment and miscellaneous charges	..	100	
	Contribution to Local Funds	..	5,800	
	Construction and repair of boats	..	200	6,100
Tinnevelly	Miscellaneous establishment	..	20	20
Trichinopoly	Contribution to Local Funds	..	11,000	
	Establishment and miscellaneous charges	..	100	11,100
	Total	..	..	2,22,485
	Or in round numbers	..	..	2,22,490

(True Extract.)

(Signed) J. GROSE,
Ag. Secretary to Government.

To the Commissioners of Land Revenue.
„ the Public Works Department.
„ the Financial Department.
„ the Accountant-General.

Exd. T. K. Narayana Aiyangar.

70 Copies.

3615

7

have been pleased to rule vide G.O. No 1862 of 16-8-89 that type designs need not be adopted by District Boards and in this case it seems somewhat unnecessary to adopt such a design where on one side is the Chollangy bridge not adapted for artillery and on the other the Coringa ferry.

4 I would respectfully point out that unless early sanction is accorded I shall be unable to do anything to the bridge during next hot season, for though the hot season is the best time to work at the bridge, yet, I cannot then for want of water get my materials there.

I have &c &c

(Signed) P. H. Brown. C.E.
L. F. Engineer

No 282

Forwarded to the Superintending Engineer 1st Circle with reference to his letter No D 1756 G. D. of 7-10-89

(Sd) G. Power
President

K Lutchmanayam
for President
11/11/89

No 2046 To President [illegible] 11/89
W.I. [illegible] Cocanada November 89

M.11.294/89

SUPERINTENDING ENGINEER No. 15801 9-NOV. 89 FIRST CIRCLE

No 30 3615

Lt Engineer's Office
16th May 1889

From
The L. F. Engineer
Godavari Circle

To
The President,
District Bd.

SUPERINTENDING ENGINEER No. 21878 25 SEP. 89 FIRST CIRCLE

Sir

I am in receipt of your ~~[illegible]~~ endorsement being of 12.3.89 on Chief Engrs letter No 697C of 12.2.89 regarding Mattapolem bridge I have to say that in asking Messrs Richardson & Cruddas to design the bridge sent in I informed them that our rollers weighing 4 tons would have to cross and also that a string of bandies might have to be on the bridge (1½ Tons each) allowing 15' per bandy which would give some 30 bandies and accordingly they made the plan to suit this traffic.

The idea of our requiring a bridge at Muttapollem to carry elephant artillery or dense crowds never occurred to me and I would respectfully beg to submit the contingency is so very remote that the extra expense involved seems unnecessary.

3. The light bridge has several advantages viz less material to transport, lighter material both to transport and erect.

4. If however you consider it necessary to have a bridge at Muttapolem to carry artillery or dense crowds

p

3615

I beg that I may be supplied with the type design for a pile bridge mentioned in the Chief Engr's letter and I will ask Mr Richardson and Cruddas to tender for the same.

5 Certain type designs were sent to me a few months back but I do not find among them any suitable for this work, chiefly because the centre longitudinal girders are at a lower level than the outside ones and as this bridge is to be supported on cross girders laid on the piles, it follows that the longitudinal girders must be all on the same level. Perhaps some other type design may be referred to.

10

to V... 13th November 189

Kulumarayan

11

Estimate

I have &c

(Sd) R H Brown

(True copy) L F Engr

For President

E/1 3
1/18480
11/29 4 89

20th November 89 }

for President

No 107. 365

Local Fund Engineer's Office.
~~Dated~~ 20

SUPERINTENDING ENGINEER,
No. 1/1132
30 AUG. 89
FIRST CIRCLE.

SUPERINTENDING ENGINEER,
No. 3/1875
25 SEP. 89
FIRST CIRCLE.

From
R. H. Brown Esquire CE
Local Fund Engineer, Godavari Circle.

To
W. A. Happell Esquire CS
President, District Board.
Godavari.

Sir.

In accordance with the instructions contained in your No 76 of 8th June 1889, I have the honor to forward Messrs Richardson and Cruddas' No C/T 182 of 8-7-89.

They send three Estimates.

No 1. for Rs 26.262.
No 2 " 30,998 &
No 3 " 31,648,

As against the original Estimate of Rs 26,097 Enclosed.

The No 3 is similar to the type design as recommended by the Chief Engineer in his No 697 C dated 12-2-89.

From Messrs. Richardson and Cruddas' letter, it does not seem that there is any necessity to spend the Extra Rs 5386/- the difference between Estimate No 1 and

Estimate

estimate No 3. And I would respectfully suggest that No 1 be chosen and the material be procured at an early date. I forward the letter of Messrs. Richardson and Cruddas in original with the Sketches and photos.

I have the honor to be,
Sir,
Your most obt. Servant
(Sigd) D. H. Brown CE
Local Fund Engineer
(True copy)

President Dt Board

K.S.

E.2

Pt 2484/89
11544

No. 1504 G.D.

FROM,
Major D. McNeil Campbell R.E.
SUPERINTENDING ENGINEER
FIRST CIRCLE.

SUPERINTENDING ENGINEER
No.
25 SEP. 89
FIRST CIRCLE.

3615

TO,
THE CHIEF ENGINEER
PUBLIC WORKS DEPARTMENT.

DOWLAISHWERAM, 4th September 1889.

Enclos: 4.

SIR,

With reference to your notes embodied in P.M.G. No. 697c d/ 12/2/89 a copy of which has been furnished to me by the President L.F. Board Godavari District I have the honor to forward herewith a revised plan and an estimate the latter amounting to Rs. 26,262 prepared by Messrs. Richardson & Cruddas together with the marginally noted letters from the L.F. Engineer to the President District Board for constructing an iron girder bridge at Mattalapalem, and to request that you will be so good as to obtain the sanction of Government to the same as by G.O. No 1964.W. dated 20-7-89 the Local Funds are not bound to abide

No. 307 16-5-89
No. 107/7 20-7-89

3615

ley type designs and therefore the objections made in your notes do not now hold good-

I have the honor to be

Sir,

Your most Obedt Servant

J. W. Grant

for Supg Engineer 13 Circle

the bridge on Screw piles, I herewith submit the Local Fund Engineers letter No 202 dated the 31st October /89 to the President from which it will be observed that the reason for its being so constructed is that the bottom of the tidal creek is muddy and considerable expense will in consequence have to be incurred in making coffer dams with which to build masonry piers & I see no reason to differ from the Local Fund Engineers opinion

I have the honor to be
Sir
Your Most Obedient Servt
J. W. Grant
Supg Engineer 1st Circle

JK

14

3615

15

PWCons. 11294

FROM

J. D. Grant Esquire

SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT

MADRAS.

DATED 19th
DESPATCHED 21st November 1889
RECEIVED 27-11-89

NO. 2091 G.D

ENCLOSURES. 5

SUBJECT:

Mattalapalem Bridge
Returns duly countersigned the Estimate prepared by Messrs Richardson and Cruddas for constructing

28/11/89

6-12-89

18/12

No. 2150 G.D

5P

3615

FROM,

J. D. Grant Esquire
SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

Enclo: one Plan.

THE CHIEF ENGINEER

Public Works Department ~~FOR IRRIGATION.~~

DOWLAISHWERAM, 28th November 1889.

SIR,

In continuation of my letter No. 2091 G.D dated the 19th November/89. I have the honor to submit herewith the plan of the Mattalapalem Bridge which is now countersigned by the President and myself.

I have the honor to be

Sir,

your most obedient Servant

J. D. Grant

Supg. Engineer 1st Circle

JK

16

24

11621

FROM J. D. Grant Esquire
~~THE~~ SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO,
THE CHIEF ENGINEER
PUBLIC WORKS DEPARTMENT
MADRAS.

DATED 28th
DESPATCHED 30th November 1889
RECEIVED

No. 3399 W d/ 28-11-89
" 697 C " 12-2-89
" 3277 W " 1-12-87
" 1405 W " 23-5-87
" 1256 W " 18-5-86
" 7 D " 15-4-86
" 1798 C " 9-11-85
" 1067 C " 17-6-85

NO. 2150 G.D

ENCLOSURES. one Plan.

SUBJECT.

Mattalapalem Bridge:
Resubmits the plan duly countersigned.

SECRETARY TO GOVERNMENT
-5 DEC 8
P.W. DEPARTMENT, MADRAS.

6/12/89

18/12/89

No. 2224 G.D

FROM, J. D. Grant Esqre
SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO,
THE Chief Engineer
P. Wd. Department

Dowlaishweram, 7th December 1889

SIR,

With reference to G. O No. 3399 Wd. dated the 28th November 1889, I have the honor to state that, in the statement of works which accompanied it the construction of an Iron Girder Bridge over the Mattapalem salt creek for Rs. 30,850 is put down as a work to be executed by this Department but I beg to invite your attention to my letter No. 2565 G. D dated the 18-12-88 from which it will be seen that the work has been recommended to be carried out by the Local Fund Department. I therefore request that you will be so good as to arrange to have the needful correction made in the statement.

× 697 C 9-2-89
Sent to Chief Secretary with Cov. 11621 on 14-12-89.

I have the honor to be,
Sir,
Your most Obedient Svt.
J. D. Grant
Supg. Engr. 1st Circle.

JK

PWC № 12025

FROM J. D. Grant Esquire
~~CHI~~ SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO,
THE CHIEF ENGINEER
PUBLIC WORKS DEPARTMENT
MADRAS.

DATED 7th
DESPATCHED 11th } December 1889
RECEIVED 18

No. 2224 G.D.

SECRETARY TO GOVERNMENT, P.W. DEPARTMENT, MADRAS. 17 DEC 8

ENCLOSURES.

SUBJECT.

Iron Girder Bridge over the Mattapalem salt creek. Informs that the work "constructing an —" has been recommended to be carried out by the Local Fund Depts and requests to arrange to have the needful correction made in the statt of works printed with G.O. No 3399 Md/28-11-89

B 3615 3615

Public Works Department.

Current No. 14,294
Letter No. 209/G.D
Dated 19th November 1889
From the Supg: Engr I Circle

Sanction x communicate by telegram
[illegible] 6.12.89

NOTE OF REMARKS.

The accompanying plan, and estimate for R26,262 for constructing the Matalapalem bridge in the Godavari Dist: were returned to the Supg: Engr: I Circle with this Office Memo No 4210 C d/19th Sept/89 for the countersignature of the S.E. & President of the District Board, and for explanation as to why screw piles were adopted in preference to masonry piers —

The plan & estimate are now returned by the S.E. duly countersigned by both Officers, and the reason assigned for not adopting

x As the work is to be commenced in 1890-91, it is submitted that the san[illegible] to estimate need not be communicated by wire. [illegible]

20

masonry piers was on account of the bed of the tidal creek being muddy and the consequent considerable expenditure that would have to be incurred in constructing coffer dams, ~~and~~ the S.E. concurs in this opinion —

The rates cannot be checked —

No separate provision is made in the est: for metalling the roadway over the bridge, it may however be included in the item of Rs 5000 for abutments —

6-12-89

3615 3

No. 3615 W d/19 December 1889

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Supdg Engineer I Circle.	No. 1504 G.O. d/4 Septr 1889.
Letter from the Supdg Engineer I Circle.	No. 2091 G.O. d/19 Novr 1889.
Letter from the Supdg Engineer I Circle.	No. 2150 G.O. d/28 Novr 1889. " 2224 G.O. d/7 Decr 1889

oo

The revised estimate amounting to Rs 26,262 for constructing an iron girder bridge over the Mattalapalem salt creek in the Godavari District, is sanctioned in supersession of the estimate of Rs 30,850 sanctioned in G.O. No. 1405 W, dated 23rd May 1887.

H.C.S. 19 Dec.

2. The work will be carried out by the Godavari District Board's Engineer.

3. A sum of Rs 30,850 having been allotted for the work in the Canal and Ferry Fund budget for 1890-91 vide G.O. No.* 914 (Revenue) dated 16 November 1889, the grant

*G.O. No. 3399 W d/28 Novr 1889.

21

grant to be provided for the work in the Public Works Incorporated Local Fund Budget for 1890-91 will be reduced to Rs 26,262.

4. The Sanction accorded in para 1 of these Proceedings has been registered as Incorporated Local No 33 W of 1889-90, and classified as Communication, Original works.

11.12.89

11.12.89

13/12

CHIEF SECRETARY
14 DEC 89
GOVERNMENT OF MADRAS

To
The S. E. I Circle
" Examr. P. W. Accounts with copy of the abst. estimate
" Revenue Department
" Local and Municipal Department with 2 enclosures.

11/12

(To
The Revenue Secretary
" Chief Secretary } for favor of counter-initials)

R. Secy } 12-12-89
Ch. Secy } 14-12-89

18/12/89

3615

22

11294.

Govt. of (18) Madras.

PUBLIC WORKS.

Dated

Recd Encl

G.O. 19th Decr 1889 No. 3615W.

Girder bridge over the
Mathalapalem Salt Creek
Godavari District

Revised estimate
amounting to Rs 26,262,
for constg an iron
— sanctioned.

10/6

22

1RC10/12: