

- (1) பக்கங்களின் எண்ணிக்கை 48
(2) புதுக்கித் திருப்பிய நாள் 18-7-88
(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 1609

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

PW துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	<u>2447 W</u>	அச்சகம் பலவகை
நாள் :	<u>13.8.1888</u>	<u>198</u> .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

பி

2447

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 5th March 1888, No. 683 B.

I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, plans, &c, below mentioned, which have been approved by the Commander-in-Chief. The plans and estimate have been countersigned:—

1. Plan, report and estimate, amounting to Rs 4,487, for constructing a draw-bridge at the north gate, Fort St. George.
2. The work is not one of any urgency, and its execution may be delayed until funds can be conveniently made available.

No. 1636, Military.

Approved and transferred to the Public Works Department for disposal.

FORT ST. GEORGE. (Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
8th March 1888. Secretary to Government.

No. 1185 C.

Forwarded to the Superintending Engineer, V Circle, for report on the following points:—

- (1) It is not clear how it is proposed to fill the cistern with water. This should be explained.
- (2) As the bottom of the cistern is below the water level of the wet ditch, it apparently will not be practicable to altogether empty the cistern by means of the sluice.
- (3) It should be explained why a better alignment cannot be given to the proposed new road of approach.
- (4) The proposed new approach is not shown on the tracing.

(By Order.)

20th March 1888. (Signed) W. L. C. BADDELEY, Captain, R.E.,
Deputy Chief Engineer, P.W.D.

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Bangalore, 19th July 1888, No. 1089.

In returning your endorsement No. 1185 C, dated 20th March 1888, I have the honor to state that the intention was to leave the cistern under the proposed draw-bridge dry, but if it is considered necessary that the cistern should be filled

with water, a branch pipe can be laid from the Seven Wells pipe, which runs close by the north gate as shown on the plan. The cost of this can be met from the amount provided in the estimate for "contingencies." When it is required to empty the cistern, all but 1 to 1.5 feet of water can be run off into the ditch, and the remainder can be baled out by the fort lascars in two or three hours.

2. The new road of approach passes over ground which slopes towards the wet ditch to the north of the orillon demi-bastion, and it is intended to give the road a uniform gradient from the outer to the inner north gate. The alignment may be improved when carrying out the work without materially altering the estimate.

3. The approach road has been shown on the tracing.

ORDER—dated 13th August 1888, No. 2447 W., Public Works.

The estimate, amounting to Rs. 4,487, for constructing a draw-bridge at the north gate, Fort St. George, is sanctioned for execution when funds are available.

2. This sanction has been registered as Imperial, Ordinary, No. 23 W. of 1888-89, and classified as Military, Original Works.

(True Extract.)

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

To the Superintending Engineer, V Circle, with five enclosures.
" Examiner, Public Works Accounts, with the duplicate abstract estimate.
" Military Department.

Exd. F. R. Bantleman,
Spare Copies

2447
2

BUILDINGS AND ROADS.
MILITARY WORKS.

Gobt. of (1888) Madras.
PUBLIC WORKS.

Dated August, 13th.

Recd.

Encs.

G.O., 13th Aug. 1888, No. 2447 W.

AUGUST.

Draw-bridge

Estimate for constructing a — at the
north gate, Fort St. George, sanctioned.

24/7
28TH APRIL 1887, No 1161 W, PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

Extract from the Proceedings of the Government of India, Military Department,
dated Fort William, 18th March 1887, No. 607 M-W. (Accounts—Budget
Estimate) —

MADRAS.

Orders on Military Works Budget Estimate for 1887-88, and Revised Estimate
for 1886-87.

Read—

Military Department Resolution, No. 1672 M-W, dated the 1st November 1886
Letter, No. 3327-W, dated the 17th December 1886, from Government of Madras.

RESOLUTION.—The estimates of Revenue are accepted for the sums entered in the
subjoined table —

REVENUE.

	Budget estimate, 1887-88.	Revised estimate, 1886-87.	Budget estimate, 1886-87.	Actuals 1886-87
In Public Works Department	Rs. 25,000	Rs. 16,000	Rs. 30,000	Rs. 25,881
Total	25,000	16,000	30,000	25,881

EXPENDITURE.

Budget Estimate, 1887-88.

2. The estimate has been prepared for the grant of Rs. 5,50,000 sanctioned in
Military Department Resolution, No. 1672 M-W., dated 1st November 1886; with
reference to paragraph 2 of the letter from the Government of Madras quoted in the
preamble, the Government of India regret being unable to provide a larger allotment.

3. The details of part I of the estimate are passed, subject to the following
remarks:—

- i. *Class A works*—Item 1, barracks for 50 additional men and canteen at Mala-
puram.—It has been found desirable to allot only Rs. 11,000 for this
work, until it is known what the supplemental estimate includes, what it
amounts to, and what prospect there is of the work being vigorously pro-
secuted. The balance of the grant may be held in reserve by the Madras
Government for the present.
- ii. *Class B works*.—It is noticed that estimates for items Nos. 2, 3, 7, 8 and 9
have not been prepared and sanctioned. The provision made for items 2
and 6 of the budget seems too high, but the allotments are admitted on
the condition that no excess is permitted to take place.

iii. The remaining three items are Ordnance works, but were not brought forward by the Director-General of Ordnance in his schedule of requirements for 1887-88, and the Government of India has no means of judging whether the works proposed will be completed for the sums entered in the budget estimate. The allotments aggregating Rs. 36,000 are passed provisionally subject to redistribution in communication with the Inspector-General of Ordnance, who should obtain the concurrence of the Director-General of Ordnance to any proposals he may recommend to the Madras Government. The final distribution of the allotment of Rs. 36,000 to works or special repairs, or to both, should be communicated to the Government of India.

Revised Estimate for 1886-87.

4. The revised estimate has been passed for the amount of the existing grant, Rs. 6,23,400.

5. The details of the estimates of expenditure passed by the Government of India are exhibited in the following table:—

	Budget estimate, 1887-88	Revised estimate, 1886-87	Expenditure, 1886-87	Actuals, 1886-87
	RS.	RS.	RS.	RS.
Original works { In progress ...	50,000	1,93,000	2,08,035	1,85,232
Repairs ...	91,700	3,10,500	3,10,405	1,72,187
Total, Works and Repairs	3,00,000	5,04,400	5,18,500	3,58,419
Establishment ...	1,42,600	1,17,000	1,20,700	84,263
Tools and plant ...	1,03,000	5,000	5,200	3,763
Deduct—Excess amount included for expenditure in England in revised estimate ...	4,400	5,50,000	6,44,400	4,45,245
Deduct—Expenditure in England ...	5,50,000	1,500	...	...
Net Indian outlay ...	5,50,000	6,23,400	6,44,400	4,45,009

* Reduced to Rs. 4,000 to accord with latest advice received from the Secretary of State.

6. The authority herewith given to incur expenditure within the limits shown in the foregoing table, is subject to the condition of a strict adherence to the rules in force regarding the financial regularity of departmental work.

ORDER.—Ordered, that this resolution be communicated to the Government of Madras, for information and guidance, with the request that 45 printed copies of the budget estimate, as now passed, may be submitted so as to reach the Government of India not later than the 1st May 1887.

Ordered also, that a copy be forwarded to the Accountant-General, Public Works Department, for information.

(True Extract.)

E. COLLIER.

Offg. Secy. to the Govt. of India.

To the Secretary to the Govt. of Madras,
Public Works Department.

Telegram from the Government of India, Military Department, dated 7th April 1887.
Suptg. Engineer, III Circle, dated 7th April 1887.

Letter from the " " III " " 6th " " No. 29.
" " " " IV " " 2nd " " 163 E.W.
" " " " V " " " " 25.

ORDER—dated 28th April 1887, No. 1160 W., Public Works.

Ordered that the final issue of the Imperial Military Works budget for 1887-88 prepared for Rs. 5,50,000, being the amount adopted by the Government of India in their resolution read at the head of these proceedings, be printed and 45* copies forwarded to the Government of India.

2. Provision to the extent fixed by the Government of India has been made for barracks for 50 additional men at Malapuram. A supplemental estimate, amounting to Rs. 38,940, was forwarded for the sanction of that Government with endorsement No. 1004 W., dated 4th April 1887, and it has been ascertained that if the estimate be sanctioned at an early date there will be no difficulty in spending the whole of the proposed grant, Rs. 20,000, before the close of the official year. The Government of India will therefore be requested to re-allot the sum of Rs. 9,000 withheld from the proposed grant for the work.

3. The attention of the Superintending Engineer, IV Circle, will be drawn to the remarks of the Government of India on item No. 2, class B works, and with reference to the remark against item No. 7, "store rooms and workshop for the Pioneer regiment at Bellary," the Superintending Engineer, IV Circle, will report if the estimate of Rs. 4,740 already sanctioned for the work—vide G.O., No. 534 W., dated 24th February 1887, can be reduced to the amount of the budget grant.

4. The works detailed in the margin, † for which the Government of India have sanctioned allotments provisionally only, were considered ‡ urgent by His Excellency the Commander-in-Chief. The Quartermaster-General will be requested to communicate with the Inspector-General of Ordnance and report, with reference to the remark iii, paragraph 3 of the Government of India resolution above quoted, in order that the allotments for the works named may be re-distributed, if necessary, as directed by the Government of India.

5. The modifications of grants necessary to meet the increased rate of contribution to Provincial on account of tools and plant sanctioned by the Government of India—vide G.O., No. 881 W., dated 23rd March 1887, will be made in separate proceedings.

6. Superintending Engineers concerned will submit without loss of time plans and estimates for the unsanctioned works for which funds have been provided in the budget.

7. The amounts held at the disposal of the Government for Repairs and Minor Original Works will as usual be distributed on receipt of detailed proposals from Superintending Engineers in accordance with paragraph 1322 of the Public Works Code; and the balance of the Minor Original Works grant, after providing for incomplete works of last year and for such of the Minor New Works as may be considered urgent, will be placed at the disposal of the Officers Commanding Divisions and Districts.

8. The revised estimate of charges for 1886-87, as shown in the preliminary issue, has been altered to Rs. 6,23,400 to agree with the total amount shown in the

Bangalore

V

24/4/87
4

2447
5

4 28TH APRIL 1887, No. 1161 W., PUBLIC WORKS. .

table embodied in paragraph 5 of the resolution of the Government of India above recorded.

(Here enter No. 1161 W., dated 28th April 1887.)

(True Extract.)

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

To Superintending Engineers.
„ the Examiner, Public Works Accounts.
„ the Military Department.
„ the Financial „

ENDORSEMENT—dated 28th April 1887, No. 1161 W., Public Works.

Forwarded.

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

Exd P. L. Pareira
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1887) Madras.
PUBLIC WORKS.

Dated April, 28th.

Recd.

Encl.

G.O., 28th April 1887, No. 1161 W.

APRIL

Budget Estimate

Imperial Military Works for 1887-88.—
Copy of orders circulating the final issue of
the —, forwarded to the Government of
India.

IMPERIAL.
MILITARY WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

MILITARY WORKS

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1887-88.

CHEPÁK,
28th April 1887.

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

IMPERIAL.
MILITARY WORKS.

MADRAS.

249/7

CONTENTS.

	PAGE
ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE	2
DITTO DITTO OF EXPENDITURE	2 & 3
DETAILS OF THE BUDGET-ESTIMATE OF EXPENDITURE—	
PART I.—DETAIL OF ESTIMATE FOR ORIGINAL WORKS, CLASS A	4 & 5
DITTO DITTO CLASS B	6 & 7
APPENDIX TO ABOVE—	
APPENDIX B.—LIST OF CLASS C WORKS	8 to 15

IMPERIAL.
MILITARY WORKS.

MADRAS.

REVENUE.

ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE OF THE PUBLIC WORKS DEPARTMENT FROM
MILITARY WORKS IN MADRAS FROM 1st APRIL 1887 TO 31st MARCH 1888

	BUDGET- ESTIMATE, 1887-88	REVISED ESTIMATE, 1886-87	BUDGET- ESTIMATE, 1886-87.	ACTUALS, 1885-86
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	25,000	16,000	30,000	25,881
In Civil and Military Departments	...	...	..	...
Total	25,000	16,000	30,000	25,881

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT
MILITARY WORKS IN MADRAS FOR THE YEAR FROM 1st APRIL 1887 TO 31st MARCH 1888.

	REFERENCE to DETAILED ESTIMATE	BUDGET- ESTIMATE, 1887-88	REVISED ESTIMATE, 1886-87.	BUDGET- ESTIMATE, 1886-87.	ACTUALS, 1885-86.
		Rs.	Rs.	Rs.	Rs.
ORIGINAL WORKS. { IN PROGRESS	...	41,000	1,85,200	2,08,035	1,85,232
{ NOT COMMENCED.	...	1,01,540			
REPAIRS { ORDINARY	...	3,00,000	3,17,700	3,10,465	1,73,187
{ SPECIAL	...	...			
ESTABLISHMENT	...	1,03,000	1,17,500	1,20,700	83,263
TOOLS AND PLANT	...	4,400	5,000	5,200	3,563
SUSPENSE ACCOUNT	...	...	...	...	...
Total	...	5,50,000	6,25,400	6,44,400	4,45,245

IMPERIAL.
MILITARY WORKS.

MADRAS.

ABSTRACT OF THE CHARGES TO BE INCURRED BY THE PUBLIC WORKS DEPARTMENT FROM IMPERIAL
FUNDS AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

BUDGET-ESTIMATE, 1887-88											
	ORIGINAL WORKS.			REPAIRS	ESTABLISHMENT.	TOOLS AND PLANT.	SUSPENSE ACCOUNT. BARRACK DEPARTMENT	TOTAL.	REVISED ESTIMATE, 1886-87.	BUDGET-ESTIMATE, 1886-87	ACTUALS, 1885-86
	In progress.	Not commenced.	Total								
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
PROVISION FROM IMPERIAL FUNDS											
In India ..	41,000	1,01,540	1,42,540	3,00,000	1,03,000	4,400	...	5,50,000	6,25,400	6,44,400	4,45,245
In England ..	...	...	...	...	...	...	...	...	...	...	...
Total ..	41,000	1,01,540	1,42,540	3,00,000	1,03,000	4,400	...	5,50,000	6,25,400	6,44,400	4,45,000
PROVISION FROM CONTRIBUTIONS											
In India ..	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL	41,000	1,01,540	1,42,540	3,00,000	1,03,000	4,400	...	5,50,000	6,25,400	6,44,400	4,45,081

STATEMENT SHOWING THE WORKS ON WHICH THE OUTLAY IN ENGLAND ABOVE PROVIDED FOR IS TO BE INCURRED

BUDGET-ESTIMATE, 1887-88									
	ORIGINAL WORKS			TOOLS AND PLANT	SUSPENSE ACCOUNT	TOTAL	REVISED ESTIMATE, 1886-87.	BUDGET-ESTIMATE, 1886-87.	ACTUALS, 1885-86.
	In progress	Not commenced	Total						
							Rs.		Rs.
...	...	...	...	...	...	...	2,000	...	236
Total ...	...	...	...	...	...	...	2,000	...	236

IMPERIAL.
MILITARY WORKS.

MADRAS.

PART
DETAIL OF THE BUDGET-ESTIMATE FOR
CLASS A

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION.	LOCALITY	ITEM No.	PROJECTS AND WORKS.	AMOUNT OF ESTIMATE.
					Rs.
				IMPERIAL ORDINARY MILITARY. Original Works.	
(1) Accommodation for troops— Buildings for European troops in the plains. Permanent.	West Coast.	Malapuram ...	1	Barracks for a detachment of British Infantry to accommodate 50 additional men.	1,35,802
Accommodation for Native troops.	Presidency.	Bangalore ...	2	Public buildings for a regiment of Native infantry	21,636
	Trichinopoly.	Trichinopoly.	3	Construction of stone drains required for new lines.	...
			Total		...

I.
ORIGINAL WORKS FOR THE YEAR 1887-88
WORKS

OUTLAY.		GRANT, 1887-88.			ITEM No.	REMARKS AND REFERENCES.
Actual to end of 1887-88.	Available during 1888-87.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
1,14,981	8,315	11,000	...	11,000	1	G O, No. 2305 W., dated 13th September 1886; No. 560 W., dated 24th February 1887. Item No. 1, class A works, budget of 1886-87. Supplemental estimate for Rs. 33,940 forwarded to the Government of India for sanction.
...	15,000	6,636	...		2	G O, No 2952 W., dated 29th November 1884. Item No. 11, class B works, budget of 1886-87
...	1,000	5,140	...	11,776	3	Estimate is awaited. Item No. 13, class B works, budget of 1886-87.
...	...	22,776	...	22,776		/

PART
DETAIL OF THE BUDGET-ESTIMATE FOR
CLASS B

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION.	LOCALITY	ITEM No.	PROJECTS AND WORKS	AMOUNT OF ESTIMATE
				IMPERIAL ORDINARY	Rs.
				MILITARY	
				Original Works	
(1) Accommodation for troops—	Bellary ...	Bellary ...	1	Collar maker and wheeler's shop, Royal Artillery.	5,663
Buildings for European troops in the plains. Permanent.	Nilgiri ...	Wellington ...	2	Quarters for three Apothecaries ...	...
	Do. ...	Do. ...	3	Quarters for a Parrack Sergeant ..	7,348
	Presidency.	Fort St George	4	Converting a vacant court into a covered gymnasium.	11,890
	Chingleput	St. Thomas Mount.	5	Repairing and reconstructing 11 ...	2,970
Accommodation for ...	Presidency	Bangalore ...	6	Public building for a regiment of ...	30,000
	Do. ...	Do. ...	7	...	4,740
(2) Ordnance Works ...	Bellary ...	Bellary ...	8	Tucker Staff Sergeants' quarters, Ordnance Department	...
	Presidency.	Fort St George	9	Adapting the existing magazine for storage of powder for Fort ammunition	...
	Do. ...	Madras ..	10	Coal store, Ordnance Department	...
(3) Fortifications ...	North Arcot	Vellore ..	11	Draw bridge and gate for the Fort	6,450
				Minor Works and Reserve	...
				Total ...	...
				Grand Total ...	...

I—cont.

ORIGINAL WORKS FOR THE YEAR 1887-88.
WORKS.

OUTLAY.		GRANT, 1887-88.			ITEM No.	REMARKS AND REFERENCES
Actual to end of 1885-86.	Probable during 1886-87.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	1,084	4,579	...	...	1	G.O., No. 914 W., dated 3rd April 1884. Item No. 3, class C works, budget of 1886-87.
...	...	...	16,000	...	2	Estimate is awaited.
...	3,213	4,135	...	...	3	G.O., No. 1941 W., dated 21st August 1885.
2,040	280	9,570	...	...	4	G.O., No. 1552 W., dated 20th June 1884. Item No. 17, class C works, budget of 1886-87.
...	...	...	2,970	37,254	5	G.O., No. 1111 W., dated 23rd April 1887.
...	...	...	10,000	...	6	G.O., No. 1302 W., dated 25th May 1886. Item No. 36, class C works, budget of 1886-87.
...	...	...	3,000	13,000	7	G.O., No. 534 W., dated 24th February 1887. Item No. 36, class C works, budget of 1886-87.
...	...	...	10,000	...	8	Estimate is awaited.
...	...	...	17,000	...	9	Do. do.
...	...	...	9,000	36,000	10	Do. do.
...	...	...	3,583	3,583	11	G.O., No. 528 W., dated 7th March 1885. Item No. 54, class C works, budget of 1886-87.
...	...	...	29,987	29,987		
...	...	18,284	1,01,540	1,19,824		
...	...	...	...	1,42,600		

IMPERIAL.
MILITARY WORKS.

MADRAS.

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1887-88, BUT ON
CLASS B

APPENDIX

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION	LOCALITY	ITEM No.	PROJECTS AND WORKS	AMOUNT OF ESTIMATE.
				IMPERIAL ORDINARY.	Rs.
				MILITARY	
				Original Works	
(1) Accommodation for troops—Buildings for European troops in the plains. Permanent.	Bellary	Bellary	1	Armourer's shop, 2nd Light Cavalry	2,695
	Do.	Do.	2	A new gun-shed, Royal Artillery.	...
	Do.	Do.	3	Swimming-bath, British infantry.	7,644
	Do.	Do.	4	Infectious disease ward and cook-house, Station hospital	6,140
	Do.	Do.	5	Alterations and additions to Military prison and adjoining buildings.	...
	Do.	Do.	6	Armourer's shop for the Arsenal...	...
	Nilgiri	Wellington	7	Gymnasium	...
	Do.	Do.	8	Constructing a new Lock hospital.	...
	Do.	Do.	9	Accommodation for a mountain battery	...
	West Coast.	Calicut	10	Providing barrack accommodation for 100 men.	...
	Do.	Cannanore	11	Plunge-bath for European Infantry barracks.	4,640
	Do.	Do.	12	Improving latrines for European Infantry barracks.	2,780
	Do.	Do.	13	Improving the roof of regimental guard room, European Infantry barracks.	...
	Presidency.	Fort St George.	14	Remodelling drainage	...
	Do.	Madras	15	Constructing coach-houses and stables on the esplanade in front of the Body Guard lines for use of officers in Fort St. George.	...
	Do.	Bangalore	16	Constructing V drains round the single men's blocks.	...
	Do.	Do.	17	Quarters for schoolmaster and schoolmistress.	10,240

B.

WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM WORKS.

OUTLAY		AMOUNT APPLIED FOR 1887-88.			ITEM No.	REMARKS AND REFERENCES.
Actual to and of 1885-86.	Probable during 1886-87.	Works in progress.	Works not commenced.	Total		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	2,695	...	1	G.O., No. 2266 W., dated 14th September 1881. Item No. 6, class C works, budget of 1886-87.
...	...	...	3,970	...	2	Estimate is awaited.
...	...	...	7,644	...	3	G.O., No. 2434 W., dated 19th October 1885. Item No. 4, class C works, budget of 1886-87.
...	...	...	6,140	...	4	G.O., No. 220 W., dated 7th February 1884. Item No. 5, class C works, budget of 1886-87.
...	...	...	11,200	...	5	Estimate is awaited. Item No. 2, class C works, budget of 1886-87.
...	...	...	4,650	...	6	Estimate is awaited.
...	...	...	10,000	...	7	Estimate is awaited. Item No. 7, class C works, budget of 1886-87.
...	...	...	4,180	...	8	Estimate is awaited. Item No. 3, class C works, budget of 1886-87.
...	...	...	10,000	...	9	Estimate is awaited.
...	...	...	...	...	10	Estimate is awaited. Amount not shown by the Military Department.
...	...	...	4,633	...	11	G.O., No. 418, dated 10th February 1876. Item No. 11, class C works, budget of 1886-87.
...	...	...	2,780	...	12	G.O., No. 1056 W., dated 4th April 1879. Item No. 12, class C works, budget of 1886-87.
...	...	...	5,060	...	13	Estimate is awaited.
...	...	...	10,000	...	14	Estimate is awaited. Item No. 16, class C works, budget of 1886-87.
...	...	...	15,770	...	15	Estimate is awaited.
...	...	...	7,530	...	16	Do do
...	...	...	10,240	...	17	G.O., No. 2384 W., dated 20th September 1885. Item No. 17, class C works, budget of 1886-87.

IMPERIAL
MILITARY WORKS.

MADRAS

APPENDIX

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1887-88, BUT ON
CLASS B

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION.	LOCALITY.	ITEM No.	PROJECTS AND WORKS.	AMOUNT OF ESTIMATE.
				IMPERIAL ORDINARY— <i>cont</i>	Rs.
				MILITARY— <i>cont</i>	
				<i>Original Works—cont.</i>	
(1) Accommodation for troops— Buildings for European troops in the plains. Permanent.	Presidency.	Bangalore ...	18	New orderly room for 12th Lancers, or conversion of Quartermaster's stores into orderly room and stores.	...
	Do. ...	Do. ...	19	Quarters for Senior Apothecary, North Station hospital.	5,300
	Do. ...	Do. ...	20	Quarters for the Assistant Apothecary, North Station hospital.	4,773
	Chingleput.	St Thomas' Mount.	21	A wheeler and collar maker's shop, West barracks.	5,660
	Do ...	Do. ...	22	Sergeants' Mess for East barracks	...
	Do. ...	Do. ...	23	General improvements to the drains of the cantonment	...
	Do. ...	Do. ...	24	Quarters for three Medical Subordinates, Station hospital.	...
	Do. ...	Do. ...	25	Quarters for head-quarter's staff, Royal Artillery.	...
	Do. ...	Do. ...	26	Battery office for P/1st Royal Artillery.	...
	Do. ...	Do. ...	27	Raising the roof of harness rooms, troop lines.	4,200
	Do ...	Do. ...	28	Wooden shed at the proof range ...	2,820
	Do. ...	Do. ...	29	Converting the disused gun shed between the North barracks and the main guard into a coffee shop, recreation room, and library.	2,520
	Do. ...	Pallavaram ...	30	One mortuary room for each of the three hospitals, Nos. 1 to 3.	...
	Do. ...	Poonamallee.	31	Improvements to the old barracks with possibility of obviating construction of the new.	...
	Do. ...	Do. ...	32	Warrant officers' quarters	...
	Do. ...	Do. ...	33	Two Staff Sergeants' quarters, first class.	...
	Do. ...	Do. ...	34	Coffee shop	...

B—*cont.*

WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM
WORKS—*cont.*

OUTLAY.		AMOUNT APPLIED FOR 1887-88.			ITEM No.	REMARKS AND REFERENCES.
Actual to end of 1885-86.	Probable during 1886-87.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	6,500	...	18	Estimate is awaited.
...	...	...	5,300	...	19	G.O., No. 3385 W., dated 27th November 1883. Item No. 20, class C, works, budget of 1886-87.
...	...	...	4,773	...	20	G.O., No. 938 W., dated 5th April 1884. Item No. 21, class C works, budget of 1886-87.
...	...	...	5,660	...	21	G.O., No. 2717 W., dated 3rd November 1884. Item No. 21, class C works, budget of 1886-87.
...	...	...	6,000	...	22	Estimate is awaited.
...	...	...	10,000	...	23	Do. do.
...	...	...	8,000	...	24	Do. do.
...	...	...	12,000	...	25	Do. do.
...	...	...	5,000	...	26	Do. do.
...	...	...	4,200	...	27	G.O., No. 3137 W., dated 17th December 1881. Item No. 25, class C works, budget of 1886-87.
...	...	...	2,820	...	28	G.O., No. 3077 W., dated 13th December 1884. Item No. 26, class C works, budget of 1886-87.
...	...	...	2,520	...	29	G.O., No. 1244 W., dated 28th May 1885. Item No. 27, class C works, budget of 1886-87.
...	...	...	3,000	...	30	Estimate is awaited. Item No. 23, class C works, budget of 1886-87.
...	...	...	5,000	...	31	Estimate is awaited.
...	...	...	3,500	...	32	Do. do.
...	...	...	6,000	...	33	Do. do.
...	...	...	9,000	...	34	Do. do.

IMPERIAL
MILITARY WORKS.

MADRAS.

2442
13

APPENDIX

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1887-88, BUT ON CLASS B

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION.	LOCALITY.	ITEM No.	PROJECTS AND WORKS.	AMOUNT OF ESTIMATE.
				IMPERIAL ORDINARY— <i>cont</i>	Rs.
				MILITARY— <i>cont</i>	
				<i>Original Works—cont</i>	
(1) Accommodation for troops— Buildings for Native troops.	Vizagapatam	Vizianagrum.	35	Regimental store room for Native infantry, including storage for camp equipage	3,480
	Bellary	Bellary	36	School-house for the Native Infantry regiment.	3,030
	West Coast.	Quilon	37	Sepoy lines	...
	Do.	Mangalore	38	Providing drains for the lines of the Native infantry	...
	Presidency.	Madras	39	Constructing four latrines, two for males and two for females for Native Infantry lines at Perambur.	...
	Do	Do	40	Flushing drains for Native Infantry lines at Rayapuram	4,300
	Chingleput	Pallavaram	41	Magazine for a Madras Infantry regiment	4,900
	Do.	Do	42	Armourer's shop for a Madras Infantry regiment	2,880
(2) Ordnance Works.	Trichinopoly	Trichinopoly.	43	Workshops for a Pioneer regiment	...
	Presidency	Madras	44	Compound wall round the Gunpowder Factory	...
	Do	Do	45	Extra accommodation as store-rooms in the Gunpowder Factory	...
(3) Communal Buildings	West Coast	Channarayana	46	Mule and cattle shed	...
	Presidency	Bangalore	47	Quarters for a Conductor, Transport Department	5,800
	Do.	Do	48	Quarters for Ambulance Sergeant, near Cattle Line, Transport Department.	...
	Do	Madras	49	Linos for transport attendants	...
	Do.	Do.	50	Workshops and sheds for carts, doulis, &c., Transport Department	...
	Do.	Do.	51	Construction of a shed at the Camp Equipage Depot	...

B—cont

WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM WORKS—cont

OUTLAY.		AMOUNT APPLIED FOR 1887-88.			ITEM No.	REMARKS AND REFERENCES.
Actual to end of 1885-86.	Probable during 1886-87.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	3,480	...	35	G.O., No. 2628 W., dated 27th October 1884 Item No. 32, class C works, budget of 1886-87.
...	...	...	3,030	...	36	G.O., No. 149 W., dated 17th January 1884 Item No. 33, class C works, budget of 1886-87.
...	...	...	20,000	...	37	Estimate is awaited.
...	...	...	6,030	...	38	Do. do.
...	...	...	3,000	...	39	Do do.
...	...	...	4,300	...	40	G.O., No. 1397 W., dated 4th June 1884 Item No. 34, class C works, budget of 1886-87.
...	...	...	4,500	...	41	G.O., No. 334 W., dated 8th February 1886. Item No. 38, class C works, budget of 1886-87.
...	...	...	2,880	...	42	G.O., No. 3149 W., dated 22nd December 1884. Item No. 29, class C works, budget of 1886-87.
...	...	...	8,000	...	43	Estimate is awaited.
...	...	...	20,200	...	44	Estimate is awaited. Item No. 39, class C works, budget of 1886-87.
...	...	...	6,000	...	45	Estimate is awaited. Item No. 40, class C works, budget of 1886-87.
...	...	...	1,000	...	46	Estimate is awaited.
...	...	...	5,800	...	47	G.O., No. 992 W., dated 18th April 1886. Item No. 51, class C works, budget of 1886-87.
...	...	...	3,000	...	48	Estimate is awaited.
...	...	...	43,000	...	49	Estimate is awaited. Item No. 49, class C works, budget of 1886-87.
...	...	...	5,500	...	50	Estimate is awaited. Item No. 50, class C works, budget of 1886-87.
...	...	...	5,300	...	51	Estimate is awaited. Item No. 48, class C works, budget of 1886-87.
...	...	...	...	...		

APPENDIX

LIST OF WORKS (or CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1887-88, BUT ON CLASS B

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION	LOCALITY	ITEM NO.	PROJECT AND WORKS	AMOUNT OF ESTIMATE
				IMPERIAL ORDINARY— Civil. MILITARY—General (Under War Department)	Rs.
(3) Communication <i>By Air</i>	Precidency.	Tanjore.	-	Construction of a telegraph wire.	-
	Chingleput.	Gundiv	-	Quarters for station bullocks at to be built in house.	-
(4) Staff and Mess- <i>and c.</i>	Nizari	Ommatard	54	Water-supply. Lawrence's yam.	-
(5) Fortifications ...	West Coast. Precidency.	Maharajapur.	55	Constructing fortification between the ... of Port St. George with Forward ...	-
	Do. ...	Do. ...	57	Dismantling of Wahajah ravelin and two lunettes.	...
	Do.	Do.	58	Constructing a draw bridge to North Gate.	...
				Total ...	

B-conc'd.

B—concl'd.

WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM

WORKS—concl'd.

OUTLAY		AMOUNT APPLIED FOR 1887-88.			ITEM NO.	REMARKS AND REFERENCE.
Actual to end of 1885-86.	Provision during 1886-87.	Works in progress.	Works not commenced.	Total		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	5,950	...	52	Estimate is awaited. Item No. 16, class C works, budget of 1886-87.
...	...	...	4,730	...	53	Estimate is awaited. Item No. 52, class C works, budget of 1886-87.
...	...	...	7,000	...	54	Estimate is awaited. Item No. 55, class C works, budget of 1886-87.
...	...	...	8,000	...	55	Estimate is awaited.
...	...	...	5,000	...	56	Do. do.
...	...	...	7,426	...	57	Estimate is awaited. Item No. 53, class C works, budget of 1886-87.
...	...	...	2,680	...	58	Estimate is awaited.

1838.

P. W. DEPARTMENT.

Current No. 2402. *2437/15*

From

*Me. Secy to Govt.
Milky Dept.*

No. 1865

Dated 8

Received 12

SUBJECT.

*Approving and transferring
to the P. W. D. for disposal plans
& estimate with report for
constructing a draw bridge
at the North gate, Fort P.
Gorge.*

DISPOSAL.

No. 1107 C Dated 2. 0. 11. 11

*Forwarded to the Dir. of
Eng. & Civil for report on the
following points.*

(1) It is not clear how it is
proposed to fill the cistern
with water. This should be
explained.

(2) As the bottom of the
cistern is below the water
level of the wet ditch, it
apparently will not be
practicable to altogether empty
the cistern by means of the
siphon.

Public Works Department.

Current No. *2402*

Letter No. *1865*

Dated the *24th March 1888*

From the *Secy. to Govt. Milky Dept.*

NOTE OF REMARKS.

*The estimate under
series number 1107
to No. 4. 4. 87 provides
for constructing
a draw bridge
at the North gate
of Fort St. George.*

*It is explained
that the water
gate in this wall
was not provided*

*with a draw bridge
and it is therefore
proposed to construct
one with a cistern,
30 feet in length
with a top width
of 9 feet and an*

- (3) It should be explained why a better alignment cannot be given to the proposed new road of approach.
- (4) The proposed new approach is not known on the tracing.

1 By order of
C. H. C. C. C. C.
Capt. H.
by Chief Eng. R. W. D.

Recd. 20.3.88 with
6 Enclosures.
No. 1161 W of 28-4-87.

from within of 6 feet,
which if necessary
is to be filled with
water from the
creek wells.

The Cistern will
be connected with
the wet ditch by
means of a small
tunnel and is to
have a vent provided
with a shutter
so that it may
be emptied when
considered necessary
the pair of gates
are to be provided
the gateway is to be
arched and faced
with cut stone up
to a height of 8 feet
above the arch.
The arch itself
is to be supported
on two cut stone
pillars.

The water are fair as
far as can be checked.

2447
/ 11

The estimate is
counter signed
by Mr. Secy. 22 Mr.
General and
approved by Capt.
Mr. The Military
Capt.:-

encl
17/3/88

QUARTER MASTER GENERAL'S OFFICE,
Ootacamund, 5th March 1888.

Barracks and Buildings.
Estimates.

No. 683B

242/18

From

BRIGADIER-GENERAL E. FAUNCE,

QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT.

SIR,

I have the honor, by order, to forward for sanction and transfer to the Public Works Department for disposal, the estimate, plans, &c., below-mentioned which have been approved by the Commander-in-Chief. The plans and estimate have been countersigned.

1. Plan, Report and Estimate amounting to
Rs 4487-0-0 for constructing a Draw Bridge
at the North Gate, Fort Saint George.

2. The work is not one of any urgency, and
its execution may be delayed until funds can
be conveniently made available.

I have the honor to be

Sir

your obedient servant

D. S. L. S. S.

Lieut. Colonel

Quartermaster General

RS 6

6 shillings of the 1/2 pence note are enclosed

out

2442
19

No. 1185 C 2/20 March 1888

Forwarded to the
Supdy. Engineer & Circle
for report on the following
points.

- (1) It is not clear how it
is proposed to fill the
cistern with water. This
should be explained.
- (2) As the bottom of the
cistern is below the water
level of the wet ditch,
it apparently will not be
practicable to altogether
empty the cistern by
means of the sluice.
- (3) It should be explained
why a better alignment
cannot be given to the pro-
posed new road of
approach.
- (4) The proposed new ap-
proach is not shown on
the tracing.

(By order)

W. B. Budden, Captain R.E.
By Chief Engr. P.W.D.

MILITARY (1388.) DEPARTMENT.

No. 1218

From

THE QUARTER MASTER GENERAL,
OOTACAMUND.

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT

Dated 5th Dec 1888
Received : 11th Dec 1888

No. 682B

Enclosures 4

Forward for sanction and transfer to the
Public Works Department for disposal, plan
and estimate with report for constructing
a Draw Bridge at the North
Gate, Fort Saint George.

[Signature]

SUPERINTENDING ENGINEER'S OFFICE,

V Circle, Madras,

No. 1689

W. V. Banegal
19 July 1888.

From

Colonel H. H. Viant R.E.

SUPERINTENDING ENGINEER, V CIRCLE.

To

Chief Engineer
Public Works Department.

Sir,

Enclosures 7

In returning your endorsement
No 1185 C, dated 20th March 1888, I
have the honor to state that the inten-
tion was to leave the cistern under the
proposed draw-bridge, dry, but if it is
considered necessary that the cistern
should be filled with water a branch
pipe can be laid from the main Wells
pipe which runs close by the North
Gate as shown in the plan. The cost
of this can be met from the amount
provided in the Estimate for "con-
tingencies". When it is required to
empty the cistern, all but 1 to 1-5 feet
of water can be run off into the ditch
and the remainder can be baled
out

out by the Fort lascars in two or
three hours.

The new road of approach
passes over ground which slopes
towards the wet ditch to the north
of the Bullon Hami Bastion, and
it is intended to give the road a
uniform gradient from the outer
to the inner North Gate. The
alignment may be improved when
carrying out the work without
materially altering the Estimate.

The approach road has
been shown on the tracing.

I have the honor to be
Sir

Your most obedt. servant

Charles Stuart Esq. R.E.

Superintending Engineer
5th Circle

2447
21

No 1185C. 20. 3. 88
G. B. 1161V. 28. 4. 87

From

THE SUPERINTENDING ENGINEER,

V Circle,

To

THE Chief Engineer.

S. W. Department

Dated 19 July 1888.
Recd.

ENCLOSURES.

No. 1689

Proposed Draw Bridge
at the North Gate
of Fort Saint George

Reports regarding
the cistern, when
constructing the —.

Oct 32/88
G. B. 8-88

G. B. 8-88

C 22 7/82

10/11/88

The accompanying
estimate was returned
to S. E. V. with his Office
Memo No 1185C of 20th
March 1888 for Ex-
planation on certain
points —

The Super Engineer
in reply states

1 That his intention
was to have the cistern
dug, but if it is con-
sidered unexpedient
to fill the cistern
it may be done
by means of a branch
pipe taken off the
main water main
close by, and the
cost met from
Contingencies.

2 That the cistern
can be emptied
by means of the

G. B. 8-88

27/7

Since of all but 16 1/2 ft
of water which may
be baled out in 2 or
3 hours.

3 That the alignment
of the road can be
improved when
the work is being
carried out without
materially altering
the Est. -

4 That the approach
road has been
shown on the
drawing.

As far as possible
the information
called for has
been furnished

24/7/88

PUBLIC WORKS DEPARTMENT

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

Read the following

From the Quarter Master General H.E. No. 683 Bd/5. March 1888.

Remittance by the Military Department H.E. No. 1665 d/8. March 1888.

From the Supt. Engrs I Circle H.E. No. 1689 d/19. July 1888.

The estimate amounting to
Rs. 4,487, for constructing a draw bridge
at the North Gate, Fort Saint George,
is sanctioned for execution where funds
are available

2. This sanction has been regis-
tered as Imperial Ordinary No. 26 Wof.
1888-89 and classified as Military,
Original Works

The Supt. Engrs I Circle with 5 copies.
" Examinees of P.W. with the
duplicate abstract estimate
" Military Department

2447
24

11
12

Q11 37 Hms 8 90 7
8 80 10 10
6 10 8 10

