(1) பக்கங்களின் எண்ணிக்கை 48
(2) புதுக்கித் திருப்பிய நாள் 18.7.88
(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W துறை

அரசாணை எண். / மு. கோப்புத் தாள் எண். 2447 W அச்சகம் / பலவகை

நாள் : 13.8.1888 ~~198~~ .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

2447/1

13th August 1888, No. 2447 W., Public Works.

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 :—

I. 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. 1665, Military.

Approved and transferred to the Public Works Department for disposal.

Fort St. George,
8th March 1888.
(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
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.)

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

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Bangalore, 19th July 1888, No. 1689.

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 now 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. 25 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.

Encl.

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

AUGUST.

Draw-bridge

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

2447/3

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, 1885-86.
	RS.	RS.	RS.	RS.
In Public Works Department	25,000	16,000	30,000	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 Malapuram.*—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 prosecuted. 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, 6, 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.	Budget estimate, 1886-87.	Actuals, 1885-86.
	Rs.	Rs.	Rs.	Rs.
Original works. In progress	50,900	1,93,900	2,08,035	1,85,232
Original works. Not commenced	91,700			
Repairs	3,00,000	3,10,500	3,10,465	1,72,187
Total, Works and Repairs ...	4,42,600	5,04,400	5,18,500	3,58,419
Establishment	1,03,000	1,17,500	1,20,700	83,263
Tools and plant	4,400	5,000	5,200	3,563
	5,50,000	6,26,900	6,44,400	4,45,245
Deduct—Excess amount included for expenditure in England in revised estimate	...	1,500	...	...
	5,50,000	6,25,400	6,44,400	4,45,245
Deduct—Expenditure in England	...	* 2,000	...	236
Net Indian outlay ...	5,50,000	6,23,400	6,44,400	4,45,009

* Reduced to Rs. 2,000 to accord with latest advices 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. COLLEN,
Offg. Secy. to the Govt. of India.

To the Secretary to the Government 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.

* To Simla	20
" Calcutta	25
	45

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 Bangalore Pioneer regiment at ~~Bellary,~~" the Superintending Engineer, ~~III~~ Circle, will report if V 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.

† (1) Twelve Staff Sergeants' quarters, Bellary.
(2) Adapting the existing magazine at Fort St. George for the storage of powder for the Fort armament.
(3) Coal store, Ordnance Department, Madras.

‡ G.O., No. 2497 W., dated 25th Sept. 1886.
" " 3326 W., " 17th Dec. "

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

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

2447/5

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.

FINAL ISSUE.

242/b

IMPERIAL.
MILITARY WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

MILITARY WORKS

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1887-88.

CHEPÂK,
28th April 1887.

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

IMPERIAL.
MILITARY WORKS.

MADRAS.

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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 ...	...	41,060	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

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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.									Revised Estimate, 1886-87.	Budget-Estimate, 1886-87.	Actuals, 1885-86.
	Original Works.			Repairs.	Establishment.	Tools and Plant.	Suspense Account.	Barrack Department.	Total.			
	In progress.	Not commenced.	Total.									
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Provision from Imperial Funds. In India ...	41,060	1,01,540	1,42,600	3,00,000	1,03,000	4,400	...	..	5,50,000	6,25,400	6,44,400	4,45,245
In England.	...	...	...	...	...	...	..	..	...	−2,000	...	— 236
Total ..	41,060	1,01,540	1,42,600	3,00,000	1,03,000	4,400	..	..	5,50,000	6,23,400	6,44,400	4,45,000
Provision from Contributions. In India ...	...	...	...	...	...	...	...		...	...	...	— 72
Grand Total.	41,060	1,01,540	1,42,600	3,00,000	1,03,000	4,400	..	..	5,50,000	6,23,400	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.						Revised Estimate, 1886-87.	Budget-Estimate, 1886-87.	Actuals, 1885-86.
	Original Works.			Tools and Plant.	Suspense Account.	Total.			
	In progress.	Not commenced.	Total.						
							Rs.		Rs.
	...	...	...	...	...	...	2,000	...	236
Total ...	...	...	...	...	...	...	2,000	...	236

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PART I.

DETAIL OF THE BUDGET-ESTIMATE FOR ORIGINAL WORKS FOR THE YEAR 1887-88.

CLASS A WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	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.	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	1,14,981	8,315	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. 38,940 forwarded to the Government of India for sanction.
										11,000		
Accommodation for Native troops.	Presidency.	Bangalore ...	2	Public buildings for a regiment of Native infantry.	21,636	...	15,000	6,636	...		2	G.O., No. 2952 W., dated 29th November 1884. Item No. 11, class B works, budget of 1886-87.
	Trichinopoly.	Trichinopoly.	3	Construction of stone drains required for new lines.	...	...	1,000	5,140	...		3	Estimate is awaited. Item No. 13, class B works, budget of 1886-87.
										11,776		
				Total ...	...	...	...	22,776	...	22,776		

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PART I—cont.

DETAIL OF THE BUDGET-ESTIMATE FOR ORIGINAL WORKS FOR THE YEAR 1887-88.

CLASS B WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1885-86.	Outlay. Probable during 1886-87.	Grant, 1887-88. Works in progress.	Grant, 1887-88. Works not commenced.	Grant, 1887-88. Total.	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY.								
				MILITARY.								
				Original Works.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Bellary ...	Bellary ...	1	Collar maker and wheeler's shop, Royal Artillery.	5,663	...	1,084	4,579	...	37,254	1	G.O., No. 914 W., dated 3rd April 1884. Item No. 3, class C works, budget of 1886-87.
	Nilgiri ...	Wellington ...	2	Quarters for three Apothecaries ...	...	...	...	...	16,000		2	Estimate is awaited.
	Do. ...	Do. ...	3	Quarters for a Barrack Serjeant ...	7,348	...	3,213	4,135	...		3	G.O., No. 1941 W., dated 21st August 1885.
	Presidency.	Fort St. George	4	Converting a racquet court into a covered gymnasium.	11,890	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.
	Chingleput.	St. Thomas' Mount.	5	Removing and reconstructing 11 cook houses attached to P/1st, and Q/1st, Royal Artillery.	2, 970	...	...	...	2,970		5	G.O., No. 1111 W., dated 23rd April 1887.
Accommodation for Native troops.	Presidency.	Bangalore ...	6	Public buildings for a regiment of Native cavalry.	30,990	...	...	...	10,000	13,000	6	G.O., No. 1302 W., dated 25th May 1886. Item No. 36, class C works, budget of 1886-87.
	Do. ...	Do. ...	7	Store rooms and workshops for the Pioneer regiment.	4,740	...	...	...	3,000		7	G.O., No. 534 W., dated 24th February 1887. Item No. 35, class C works, budget of 1886-87.
(2) *Ordnance Works* ...	Bellary ...	Bellary ...	8	Twelve Staff Sergeants' quarters, Ordnance Department.	...	...	...	...	10,000	36,000	8	Estimate is awaited.
	Presidency.	Fort St. George.	9	Adapting the existing magazine for storage of powder for Fort armament.	...	...	...	...	17,000		9	Do. do.
	Do. ...	Madras ...	10	Coal store, Ordnance Department.	...	...	...	...	9,000		10	Do. do.
(3) *Fortifications* ...	North Arcot.	Vellore ..	11	Draw bridge and gate for the Fort	6,450	...	...	...	3,583	3,583	11	G.O., No. 528 W., dated 7th March 1885. Item No. 54, class C works, budget of 1886-87.
				Minor Works and Reserve ...	...	...	...	...	29,987	29,987		
				Total ...	...	..	...	18,284	1,01,540	1,19,824		
				Grand Total ...	...	...	...	...	...	1,42,600		

APPENDIX B.

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1887-88, BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	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.	Rs.		
				IMPERIAL ORDINARY.								
				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	...	...	...	2,695		1	G.O., No. 2266 W., dated 14th September 1881. Item No. 6, class C works, budget of 1886-87.
	Do. ...	Do. ...	2	A new gun-shed, Royal Artillery.	...	...	...	...	3,970		2	Estimate is awaited.
	Do. ...	Do. ...	3	Swimming-bath, British infantry.	7,644	...	...	...	7,644		3	G.O., No. 2434 W., dated 19th October 1885. Item No. 4, class C works, budget of 1886-87.
	Do. ...	Do. ...	4	Infectious disease ward and cook-house, Station hospital.	6,140	...	...	...	6,140		4	G.O., No. 320 W., dated 7th February 1884. Item No. 5, class C works, budget of 1886-87.
	Do. ...	Do. ...	5	Alterations and additions to Military prison and adjoining buildings.	...	...	...	...	11,260		5	Estimate is awaited. Item No. 2, class C works, budget of 1886-87.
	Do. ...	Do. ...	6	Armourer's shop for the Arsenal ...	...	...	...	...	4,650		6	Estimate is awaited.
	Nilgiri ...	Wellington ...	7	Gymnasium	...	...	...	...	10,000		7	Estimate is awaited. Item No. 7, class C works, budget of 1886-87.
	Do. ...	Do. ...	8	Constructing a new Lock hospital.	...	...	...	...	4,180		8	Estimate is awaited. Item No. 9, class C works, budget of 1886-87.
	Do. ...	Do. ...	9	Accommodation for a mountain battery.	...	...	...	...	10,000		9	Estimate is awaited.
	West Coast.	Calicut ...	10	Providing barrack accommodation for 100 men.	...	...	...	...	...		10	Estimate is awaited. Amount not shown by the Military Department.
	Do. ...	Cannanore ...	11	Plunge-bath for European Infantry barracks.	4,640	7	...	...	4,633		11	G.O., No. 418, dated 16th February 1876. Item No. 11, class C works, budget of 1886-87.
	Do. ...	Do. ...	12	Improving latrines for European Infantry barracks.	2,780	...	...	...	2,780		12	G.O., No. 1056 W., dated 4th April 1879. Item No. 12, class C works, budget of 1886-87.
	Do. ...	Do. ...	13	Improving the roof of regimental guard room, European Infantry barracks.	...	...	...	...	5,060		13	Estimate is awaited.
	Presidency.	Fort St. George.	14	Remodelling drainage	...	...	...	...	10,000		14	Estimate is awaited. Item No. 13, class C works, budget of 1886-87.
	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.	...	...	...	...	15,770		15	Estimate is awaited.
	Do. ...	Bangalore ...	16	Constructing V drains round the single men's blocks.	...	...	...	...	7,830		16	Do. do.
	Do. ...	Do. ...	17	Quarters for schoolmaster and schoolmistress.	10,240	...	...	...	10,240		17	G.O., No. 2384 W., dated 20th September 1886. Item No. 19, class C works, budget of 1886-87.

2442/72

APPENDIX B—cont.

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1887-88, BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS—cont.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	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.	Rs.		
				IMPERIAL ORDINARY—*cont.*								
				MILITARY—*cont.*								
				Original Works—cont.								
(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.	...	...	...	...	6,500		18	Estimate is awaited.
	Do. ...	Do. ...	19	Quarters for Senior Apothecary, North Station hospital.	5,300	...	...	...	5,300		19	G.O., No. 3385 W., dated 27th November 1883. Item No. 20, class C works, budget of 1886-87.
	Do. ...	Do. ...	20	Quarters for the Assistant Apothecary, North Station hospital.	4,773	...	...	...	4,773		20	G.O., No. 938 W., dated 5th April 1884. Item No. 21, class C works, budget of 1886-87.
	Chingleput.	St. Thomas' Mount.	21	A wheeler and collar maker's shop, West barracks.	5,660	...	...	...	5,660		21	G.O., No. 2717 W., dated 3rd November 1884. Item No. 24, class C works, budget of 1886-87.
	Do. ...	Do. ...	22	Sergeants' Mess for East barracks.		...	...	...	6,000		22	Estimate is awaited.
	Do. ...	Do. ...	23	General improvements to the drains of the cantonment.	...	...	...	...	10,000		23	Do. do.
	Do. ...	Do. ...	24	Quarters for three Medical Subordinates, Station hospital.	...	...	...	...	8,000		24	Do. do.
	Do. ...	Do. ...	25	Quarters for head-quarter's staff, Royal Artillery.	...	...	...	...	12,000		25	Do. do.
	Do. ...	Do. ...	26	Battery office for P/1st Royal Artillery.	...	...	...	...	5,000		26	Do. do.
	Do. ...	Do. ...	27	Raising the roof of harness rooms, troop lines.	4,200	...	...	...	4,200		27	G.O., No. 3137 W., dated 17th December 1881. Item No. 25, class C works, budget of 1886-87.
	Do. ...	Do. ...	28	Wooden shed at the proof range ...	2,820	...	...	...	2,820		28	G.O., No 3077 W., dated 13th December 1884. Item No. 26, class C works, budget of 1886-87.
	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	...	...	...	2,520		29	G.O., No. 1234 W., dated 28th May 1885. Item No. 27, class C works, budget of 1886-87.
	Do. ...	Pallávaram ...	30	One mortuary room for each of the three hospitals, Nos. 1 to 3.	...	...	...	...	3,000		30	Estimate is awaited. Item No. 28, class C works, budget of 1886-87.
	Do. ...	Poonamallee.	31	Improvements to the old barracks with possibility of obviating construction of the new.	...	...	...	...	5,000		31	Estimate is awaited.
	Do. ...	Do. ...	32	Warrant officers' quarters ...	...	...	...	...	3,500		32	Do. do.
	Do. ...	Do. ...	33	Two Staff Sergeants' quarters, first class.	...	...	...	...	6,000		33	Do. do..
	Do. ...	Do. ...	34	Coffee shop	...	...	..	...	9,000		34	Do. do.

2447/13

APPENDIX B—cont.

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1887-88, BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS—cont.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	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.	Rs.		
				IMPERIAL ORDINARY—cont								
				MILITARY—cont.								
				Original Works—cont.								
(1) *Accommodation for troops*— Buildings for Native troops.	Vizagapatam.	Vizianagrum.	35	Regimental store room for Native infantry, including storage for camp equipage	3,480	...	...	...	3,480		35	G.O., No. 2628 W., dated 27th October 1884. Item No. 32, class C works, budget of 1886-87.
	Bellary ...	Bellary ..	36	School-house for the Native Infantry regiment.	3,030	...	...	...	3,030		36	G.O., No. 149 W., dated 17th January 1884. Item No. 33, class C works, budget of 1886-87.
	West Coast.	Quilon ...	37	Sepoy lines	...	...	...	...	20,000		37	Estimate is awaited.
	Do. ...	Mangalore ...	38	Providing drains for the lines of the Native infantry.	...	...	...	...	6,030		38	Do. do.
	Presidency.	Madras ..	39	Constructing four latrines, two for males and two for females for Native Infantry lines at Perambúr.	...	...	...	...	3,000		39	Do. do.
	Do. ...	Do. ...	40	Flushing drains for Native Infantry lines at Ráyapuram.	4,300	...	...	...	4,300		40	G.O., No. 1397 W., dated 4th June 1884. Item No. 34, class C works, budget of 1886-87.
	Chingleput.	Pallávaram ...	41	Magazine for a Madras Infantry regiment.	4,900	...	...	...	4,500		41	G.O., No. 334 W., dated 8th February 1886. Item No. 38, class C works, budget of 1886-87.
	Do. ...	Do. ...	42	Armourer's shop for a Madras Infantry regiment.	2,880	...	...	...	2,880		42	G.O., No. 3149 W., dated 22nd December 1884. Item No. 29, class C works, budget of 1886-87.
(2) *Ordnance Works.*	Trichinopoly.	Trichinopoly.	43	Workshops for a Pioneer regiment.	...	...	...	...	8,000		43	Estimate is awaited.
	Presidency.	Madras ...	44	Compound wall round the Gunpowder Factory.	...	...	...	...	20,200		44	Estimate is awaited. Item No. 39, class C works, budget of 1886-87.
	Do. ...	Do. ..	45	Extra accommodation as store-rooms in the Gunpowder Factory.	...	...	...	...	6,000		45	Estimate is awaited. Item No. 40, class C works, budget of 1886-87.
(3) *Commissariat Buildings.*	West Coast.	Calicut ...	46	Mule and cattle shed ..	...	...	...	...	4,000		46	Estimate is awaited.
	Presidency.	Bangalore ...	47	Quarters for a Conductor, Transport Department.	5,800	...	...	...	5,800		47	G.O., No. 992 W., dated 18th April 1886. Item No. 51, class C works, budget of 1886-87.
	Do. ...	Do. ...	48	Quarters for Ambulance Sergeant, near Cattle lines, Transport Department.	...	...	...	...	3,000		48	Estimate is awaited.
	Do. ...	Madras ...	49	Lines for transport attendants ...	...	...	...	...	48,000		49	Estimate is awaited. Item No. 49, class C works, budget of 1886-87.
	Do. ...	Do. ...	50	Workshops and sheds for carts, doolies, &c., Transport Department.	...	...	...	...	5,500		50	Estimate is awaited. Item No. 50, class C works, budget of 1886-87.
	Do. ..	Do. ...	51	Construction of a shed at the Camp Equipage Depôt.	...	...	...	...	5,300		51	Estimate is awaited. Item No. 48, class C works, budget of 1886-87.
						...	...	...	...	...		

2447/14

APPENDIX B—concld.

LIST of WORKS (or CLASS C WORKS) omitted from the BUDGET-ESTIMATE of 1887-88, but on which EXPENDITURE may be INCURRED during the year by RE-APPROPRIATION from CLASS B WORKS—concld.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	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.	Rs.		
				IMPERIAL ORDINARY—concld.								
				MILITARY—concld.								
				Original Works—concld.								
(3) *Commissariat Buildings.*	Presidency.	Teynampet ...	52	Construction of a wheat godown ...	...	...	...	...	5,950	...	52	Estimate is awaited. Item No. 46, class C works, budget of 1886-87.
	Chingleput.	Guindy ...	53	Quarters for station butchers attached to slaughter-house.	...	...	...	...	4,730	...	53	Estimate is awaited. Item No. 52, class C works, budget of 1886-87.
(4) *Staff and Miscellaneous.*	Nīlgiri ...	Ootacamund.	54	Water-supply, Lawrence Asylum.	...	...	...	...	7,000	...	54	Estimate is awaited. Item No. 55, class C works, budget of 1886-87.
(8) *Fortifications* ...	West Coast.	Malapuram ...	55	Constructing fortifications ...	...	...	...	...	8,000	...	55	Estimate is awaited.
	Presidency.	Fort St. George	56	Facing the *en ceinte* of Fort St. George with Portland cement.	...	...	...	...	5,000	...	56	Do. do.
	Do. ...	Do. ...	57	Demolition of Wallajah ravelin and two lunettes.	...	...	...	...	7,426	...	57	Estimate is awaited. Item No. 53, class C works, budget of 1886-87.
	Do. ...	Do. ...	58	Constructing a draw-bridge to North Gate.	...	...	...	...	2,680	...	58	Estimate is awaited.
				Total ...								

1888.

P. W. DEPARTMENT.

Current No. 2402. 2447/15

From

The Secy to Govt.
Mily Deptt:

ENCLOS. — ×
× 2 plans.

No. 1665

Dated 8th } March 1888.
Received 12th }

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 St. George.—

DISPOSAL.

No. 1185 C Dated 20th March 18

Forwarded to the Suptg. Engr. 7 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

---

Public Works Department.

Current No. 2402 2447/16

Letter No. 1665

Dated the 8th March 1888

From the Secy. to Govt. Mily. Deptt.

NOTE OF REMARKS.

The estimate under review amounting to Rs 4,487 provides for constructing a draw bridge at the North Gate of Fort St George. It is explained that the northern Gate is the only one 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

out

6

(3) It should be explained why a better alignment can not be given to the propo new road of approach-

(4) The proposed new approa is not shown on the tracing.

(By order)

(Sd.) W. L. C. Baddeley
Captn. R.E.
Dy. Chief Engr. P. W. D.

Desp. 20. 3. 86 with
6 Enclosures.

No. 1161 W d/ 28 - 4 - 87.

own width of 6 feet, which if necessary is to be filled with water from the seven 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.

A pair of gates are to be provided. The gateway is to be arched and faced with cut stone up to a height of 5 feet above the arch, the arch itself is to be supported on two cut stone pillars.

The rates are fair as far as can be checked.

2947/17

The estimate is countersigned by the Dy. Qr. Mr. General and approved by Govt. in the Military Depts:—

17/3/88

1

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

Barracks and Buildings.
Estimates.

No. 683B

2442/18

From

BRIGADIER-GENERAL E. FAUNCE,
QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

Print

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.

I. 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. J. MacLeod
Lieut. Colonel
Dy: Quarter Master General

6 spare copies of the O. G. on this letter are required

out

P. W. Dept.
21.3.88
To be returned with reply.

1/1714 S.E.

(3)

2 gled/19

No. 1185 C d/20th March 1888

Prnd/23 Forwarded to the Supdg. 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)

W W Baddeley Captn R.E.
Dy Chief Engr. P.W.D.

1689

21/3

out

(2)

MILITARY (1888.) DEPARTMENT.

PWC No 2402

1/338 P.S
17.7.88

No. ~~683B~~ 1748

Su/
7152/88

From

THE QUARTER MASTER GENERAL,
OOTACAMUND,

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

Dated 5th } March 88
Received 7 }

R. 12.3.88

No. 683 B

Enclosures ~~4~~ 6
(+ 2 plans)

Forwards 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.

PW/1
No 1665

Approved and transferred to the Public Works Department for disposal

A. Henny Herbert Br. Genl
Secretary to Government

Fort Saint George }
8th March 1888 }

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,

No. 1689

~~Chepauk~~ Bangalore, 19 July 1888.

From

Colonel H. M. Vibart R.E.
SUPERINTENDING ENGINEER, V CIRCLE,

To

THE 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 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

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 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.

The approach road has been shown on the tracing.

I have the honor to be
Sir
Your most obed^{t}. Servant

Col^{l} R.E

Superintending Engineer
5th Circle

No 1185C. 20. 3. 88
G. O. 1161W. 28. 4. 87

From P. W. C. No 7182

THE SUPERINTENDING ENGINEER,

V Circle,

C3/

To

THE Chief Engineer.
P. W. Department

Dated 19 } July 1888.
Recd. 2[illegible] }

ENCLOSURES. 1
(&plans)

No. 1689

Proposed Draw Bridge at the North Gate of Fort Saint George

Reports regarding the cistern, when constructing the —.

Cd
21/7/88

O.L.1 37/8/88 | Wd 8.8.88

O. 6. 8. 88 R. 13. 8. 88

[illegible] 37

2447 W

A

C No 7182 (3)

B / 2447/22

Dy.-W.

Sanction [illegible] 25/7

The accompanying Estimate was returned to S.E.V with the Office Memo No 1185C d/20th March 1888 for Explanations on certain points –

The Supdt. Engineer in reply states

1 That the intention was to leave the cistern dry, but if it is considered necessary to fill the cistern it may be done by means of a branch pipe taken off the main which runs close by, and the cost met from Contingencies –

2 That the cistern can be emptied by means of the

O. 6. 8-88 R. 13. 8. 88

W/27/7

Sluice of all but 1 to 1½ 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 in the tracing.

As far as possible the information called for has been furnished.

24/7/88

No. 2447 W

B & R
Mily works: 6

PUBLIC WORKS DEPARTMENT.

2447/23

A/

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 13 August 1888

READ the following

From the Quarter Master General. H. E. No: 683 B d/5 March 1888.
Endorsement by the Military Department. H. E. No: 1665 d/8 March 1888.
From the Supdg. Engr. V 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 when funds are available.

2. This sanction has been registered as Imperial Ordinary No. 26 W of 1888-89 and classified as Military, Original Works.

5/8/88

1/8

To
The Supdg. Engr. V Circle with 5 enclos.
" Examiner of P. W. Accts with the duplicate abstract estimate
" Military Department.

27/7

2447
24

I
B II
13/8

OL 37/8/88 Hm 8 8 88
10/8
6-8-88 R 13-8-88

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated [illegible]

Recd. Enct.

G.O. 13th Apl 1888, No. 1467 W

Draw-bridge

Estimate for constructing a — at the North Gate, [illegible]

6.8.88 / K. 13.8