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P.W.D

6th January 1888

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6TH JANUARY 1888, No. 31 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From the Superintending Engineer,	I Circle,	dated 10th Oct. 1887,	No. 251 G.L.
" " "	II "	" 14th " "	" —
" " "	III "	" 1st " "	" —
" " "	IV "	" 2nd " "	" 395 E.W.
" " "	V "	" 24th " "	" 2989.
" " "	V "	" 13th Dec. "	" 3877.
" " "	VI "	" 16th Sept. "	" 1149 T.J.

From E. COLLEN, Esq., Officiating Secretary to the Government of India, Public Works Department, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 3rd November 1887, No. 2309 M.W.

EXTRACT from the Proceedings of the Government of India in the Military Department, under date Simla, the 3rd November 1887.

Resolution.—The following provisional distribution of the Imperial grant for Military Works for 1888-89 is hereby notified :—

	RS.
Central India ...	1,50,000
Hyderabad ...	3,00,000
Rajputana ...	1,40,000
Simla Imperial Circle ...	2,000
Military Works Department ...	59,00,000
Central Provinces ...	1,50,000
Lower Burma ...	5,00,000
Assam ...	3,00,000
Bengal ...	36,000
North-Western Provinces and Oudh ...	67,000
Punjab ...	3,50,000
Madras ...	5,25,000
Bombay ...	11,00,000
Ordnance Works ...	2,50,000
Marine Works ...	80,000
Total ...	98,50,000
Leaving for reserve with the Government of India ...	1,50,000
	1,00,00,000

2. The above allotments include provision for any expenditure that may be incurred in England on stores for works classified as Military.

3. The distribution of the grants for Ordnance and Marine will be made by the Director-General of Ordnance and the Director of Indian Marine respectively. These officers will communicate to the Local Governments and Administrations concerned the works which they desire to have undertaken during 1888-89, and the amounts available for each work.

4. The preliminary budget estimates should be prepared for the amounts now provisionally sanctioned, and should be submitted so as to reach the Government of India punctually by the 15th January 1888.

5. Orders as regards the grants required for special defence works will issue hereafter.

Order—Ordered that a copy of the foregoing resolution be forwarded to the Local Governments, &c., noted in the margin, for information and guidance.

The Governments of Madras, Bombay, Bengal, North-Western Provinces and Oudh, and the Punjab, in the Public Works Department.
,, Chief Commissioners, Central Provinces, Burma, and Assam.
,, Resident at Hyderabad.
,, Agents to the Governor-General, Central India and Rajputana.
,, Inspector-General of Military Works.
,, Director-General of Ordnance in India.
,, Director of the Indian Marine.
,, Superintendent of Works, Simla Imperial Circle.

2. Ordered also that a copy be forwarded to the Quartermaster-General in India, the Accountant-General, Public Works Department, and the Accountant-General, Military Department, for information.

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 28th November 1887, No. 4344 A.

In acknowledging the receipt of your letter, No. 4170 C., dated 18th instant, intimating the amount of the grant made by the Government of India to this Presidency for Imperial Military Works in the coming year, and submitting proposals * for the distribution of the small allotment available out of it for major works, I am desired to express the regret of the Commander-in-Chief that he finds himself under the necessity of remarking, with disappointment, on the inadequacy of the grant made as compared with the wants of the Presidency, which have been repeatedly urged by his predecessors and which he feels sure are realised by Government.

* Statement herewith returned.

2. In regard to the statement of major works proposed to be carried out in 1888-89, I am to offer the following remarks:—

Item 3.—As the Government of India has recently † declined to sanction the provision of any storage accommodation to a Pioneer Regiment additional to that which is allowed to a regiment of Native Infantry, the grant for extra public buildings to the Pioneer Regiment at Bangalore might be reduced from Rs. 12,000 to Rs. 5,000, so that in the coming year only the additions to the places of arms, of the necessity for which there can be no question, may be provided for, leaving the matter of extra storage accommodation, regarding which Government will be addressed later, to stand over for the present.

† Procs. of Govt., No. 2937 W., 5th Nov. 1887.

Item 7.—As, owing to the detention in Burma of a regiment of Madras Cavalry, a regiment will not be placed at Bangalore for the present, the funds proposed to be allotted for providing a regiment there with public buildings may be utilised otherwise.

Item 8.—This being distinctly an Ordnance work, should not find a place in the statement.

The amount set free under the suggestions above put forward is Rs. 28,935, which His Excellency would propose to redistribute as follows:—

I. *New barracks at Poonamallee, Rs.* 19,671.—The urgency of this work has already been suggested to Government in the Military Department ‡, and it is presumed that about Rs. 20,000 should be set aside for it to secure its rapid prosecution.

‡ Qr.-master-Genl's. No. 4574 A., 23rd Nov. 1887.

II. *Completing defences of the Fort at Cannanore, Rs.* 3,064 §.—Work in connection with this fort has been spasmodically dealt with of late years, and it seems desirable that in the coming year the funds requisite to complete it should be provided.

§ Estimate submitted with Quartermaster-General's No. 3243-B., 11th November 1887, to Secretary to Government, Military Department.

III. *Sheds for transport animals at Calicut, Rs.* 3,310.—The redistribution of troops in the Western Coast has increased the allotment of transport to Calicut, and it is very desirable that cover should be provided for the animals at an early date.

IV. *New latrines, Native Infantry lines, Perambur, Madras, Rs.* 3,000.—These are very much wanted on sanitary grounds.

3. It will be observed that in these proposals works in connection with increased accommodation for troops in Fort St. George are not mentioned, and it may be explained that they are not so, because the Commander-in-Chief hopes there may be no question in regard to their being provided for out of a special grant to be obtained from the Government of India.

From the Director-General of Ordnance in India, dated 16th December 1887, No. 62 E.

ORDER—dated 6th January 1888, No. 31 W., Public Works.

In the resolution above recorded, the Government of India have provisionally assigned Rs. 5,25,000 as the grant for Military Works of this Presidency for 1888-89. The distribution of the grant under departmental heads is as follows:—

	Rs.
Works ...	4,20,600
Establishment ...	98,100
Tools and Plant ...	6,300
Total ...	5,25,000

2. Of the sum of Rs. 4,20,600 available for works, Rs. 3,00,000 for repairs, Rs. 15,260 for incomplete major works of 1887-88, and Rs. 20,000 for minor works have been set aside, and the balance, Rs. 85,340, has been distributed to major works with the approval of His Excellency the Commander-in-Chief. The amounts set aside for incomplete major works and minor works and repairs will, as usual, be held at the disposal of Government and will be appropriated early next year on receipt of detailed proposals from Superintending Engineers. After providing for incomplete minor works of the current year, and for such of the minor new works as may be considered urgent, the balance of the minor works grant will be placed at the disposal of officers commanding divisions and districts.

3. The Superintending Engineers concerned will submit, with the least possible delay, plans and estimates for the unsanctioned works for which funds have been provided in the budget.

4. With reference to paragraph 3 of the resolution of the Goverament of India above recorded, a list of the marginally-noted Ordnance works, proposed by His Excellency the Commander-in-Chief for execution during 1888-89, was forwarded to the Director-General of Ordnance with request that he would select the works to be undertaken during the year and allot funds for them. As that officer has not yet communicated the available grant, and as the estimate should reach the Government of India before the 15th proximo, the budget for 1888-89 has been prepared for the sum of Rs. 5,25,000 sanctioned by the Government of India for other than Ordnance works. On receipt of a reply from the Director-General of Ordnance the allotments made by him will be communicated to the Government of India and included in the final issue of the budget.

(1) Constructing six double quarters for the Staff Sergeants attached to the Ordnance Department, Bellary.
(2) Magazines, Fort St. George.
(3) Converting the old regimental hospital now used as a Government school into quarters for 9 Warrant Officers, Ordnance Department, Bellary.
(4) Extra accommodation as store-room in the Gun Carriage Factory, Madras.
(5) Providing sun-shades to the exposed doors and windows in the Ordnance Lines, Madras.
(6) Shed for the Camp Equipage, Madras.

5. The attention of the Government of India will be drawn to the remarks in the concluding paragraph of the Quartermaster-General's letter above recorded, with a request that a sum of Rs. 5,680, being the balance of the estimate, may be provided for conversion of certain buildings in Fort St. George into barracks for 60 single men—a work which, though of considerable importance, cannot be provided for out of the limited sum assigned for Military Works in the Presidency.

6. The items in the budget, for which estimates have not yet been sanctioned, have been entered at the special request of His Excellency the Commander-in-Chief, and, as it is hoped that the estimates for them will shortly be ready, the Government of India will be requested to allow the amounts provided for them to stand.

7. With these remarks the preliminary issue of the Military Works budget estimate for 1888-89 will be printed and circulated to the officers concerned for information and guidance, and four copies forwarded to the Government of India.

(Here enter No. 32 W., dated 6th January 1888.)

(True Extract.)

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

To Superintending Engineers.
To the Examiner, Public Works Accounts.
„ Military Department.
„ Financial „
„ Director-General of Ordnance.

Exd. J. Moses.
Sudre Copies

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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated January, 6th.

Recd. *Encl.*

G.O., 6th Jan. 1888, No. 31 W.

JANUARY.

Military Works Budget Estimate for 1888-89

Orders circulating the preliminary issue of the —.

PRELIMINARY ISSUE.

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IMPERIAL.
MILITARY WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE
OF
MILITARY WORKS
OF THE
GOVERNMENT OF MADRAS
FOR THE YEAR
1888-89.

CHEPÂK,
6th January 1888.

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

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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 1888 TO 31st MARCH 1889.

—	Budget-Estimate, 1888-89.	Revised Estimate, 1887-88.	Budget-Estimate, 1887-88.	Actuals, 1886-87.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	27,800	25,000	25,000	23,984
In Civil and Military Departments	...	...	...	...
Total ...	27,800	25,000	25,000	23,984

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT OF MILITARY WORKS IN MADRAS FOR THE YEAR FROM 1st APRIL 1888 TO 31st MARCH 1889.

—		Reference to Detailed Estimate.	Budget-Estimate, 1888-89.	Revised Estimate, 1887-88.	Budget-Estimate, 1887-88.	Actuals, 1886-87.
			Rs.	Rs.	Rs.	Rs.
Original Works.	In progress ...	...	57,280	1,62,252	1,42,600	1,45,707
	Not commenced.	...	63,320			
Repairs	Ordinary ...	...	3,00,000	2,78,518	3,00,000	3,11,795
	Special ...	...	...			
Establishment		...	98,100	1,02,630	1,03,000	1,06,754
Tools and Plant		...	6,300	6,600	4,400	4,589
Suspense Account		...	...	...	...	...
Total ...		...	5,25,000	5,50,000	5,50,000	5,68,845

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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, 1888-89.									Revised Estimate, 1887-88.	Budget-Estimate, 1887-88.	Actuals, 1886-87.
	Original Works.			Repairs.	Establishment.	Tools and Plant.	Suspense Account.	Barrack Department.	Total.			
	In progress.	Not commenced.	Total.									
Provision from Imperial Funds.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
In India ...	57,280	63,320	1,20,600	3,00,000	98,100	6,300	...	...	5,25,000	5,50,000	5,50,000	5,67,207
In England.	...	...	...	...	...	...	...	...	...	...	...	1,638
Total ...	57,280	63,320	1,20,600	3,00,000	98,100	6,300	...	...	5,25,000	5,50,000	5,50,000	5,68,845
Provision from Contributions.												
In India ...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total ...	57,280	63,320	1,20,600	3,00,000	98,100	6,300	...	...	5,25,000	5,50,000	5,50,000	5,68,845

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

—	Budget-Estimate, 1888-89.						Revised Estimate, 1887-88.	Budget-Estimate, 1887-88.	Actuals, 1886-87.
	Original Works.			Tools and Plant.	Suspense Account.	Total.			
	In progress.	Not commenced.	Total.						
							Rs.		Rs.
	...	...	...	...	...	...	...	...	1,638
Total ...	...	...	...	...	...	...	...	...	1,638

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IMPERIAL.
MILITARY WORKS.

MADRAS.

PART I.

DETAIL OF THE BUDGET-ESTIMATE FOR ORIGINAL WORKS FOR THE YEAR 1888-89.

CLASS A WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Grant, 1888-89.			Item No.	Remarks and References.
						Actual to end of 1886-87.	Probable during 1887-88.	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	Gun-shed for Royal Artillery ...	15,537	...	3,970	8,956	...		1	G.O., No. 3236 W., dated 28th November 1887.
	West Coast.	Malapuram ...	2	Barracks for a detachment of British Infantry to accommodate 50 additional men.	1,82,867	1,22,672	20,000	20,000	...		2	G.O., No. 2822 W., dated 21st October 1887. Item No. 1, class A works, budget of 1887-88.
Accommodation for Native troops.	Presidency.	Bangalore ...	3	Additions, &c., to public buildings, Madras Infantry Regiment, for a Pioneer Regiment.	21,636	15,188	6,636	5,000	...		3	G.O., No. 2952 W., dated 29th November 1884. Item No. 2, class A works, budget of 1887-88. Supplemental estimate is awaited.
				Total ...	...	...	...	33,956	...	33,956		

IMPERIAL.
MILITARY WORKS.

PART

DETAIL OF THE BUDGET-ESTIMATE FOR

CLASS B

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.	Nilgiri ...	Wellington ...	1	Quarters for three Apothecaries ...	...
	Chingleput.	Poonamallee...	2	New barracks	...
	Presidency.	Bangalore ...	3	New saddle room, British Cavalry...	...
Accommodation for Native troops.	Do. ...	Madras ...	4	Constructing 4 latrines—2 for males and 2 for females—Perambur lines.	...
(3) *Commissariat buildings.*	West Coast.	Calicut ...	5	Sheds for transport animals ...	...
(8) *Fortifications* ...	Do. ...	Cannanore ...	6	Converting the Cannanore Fort into a defensible post.	7,790
	North Arcot.	Vellore ..	7	Consturcting a draw-bridge and gate for the fort.	6,450
	Presidency.	Fort St. George.	8	Facing the *enceinte* of Fort St. George with Portland cement.	...
			9	Reserve with the Government for incomplete major works.	...
			10	Minor works	...
				Total ...	...

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Tamil Nadu Archives

Public works Department

G.O. 31–32 W dated 6-1-1888

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I—*cont.*

ORIGINAL WORKS FOR THE YEAR 1888-89.

WORKS.

Outlay.		Grant, 1888-89.			Item No.	Remarks and References.
Actual to end of 1886-87.	Probable during 1887-88.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	6,500		1	Estimate is awaited. Item No. 2, class B works, budget of 1887-88.
...	...	...	19,560		2	Estimate is awaited.
...	...	...	4,500		3	Do.
...	...	...	3,000		4	Estimate is awaited. Item No. 39, class C works, budget of 1887-88.
...	...	...	3,310		5	Estimate is awaited. Item No. 46, class C works, budget of 1887-88.
4,347	...	3,064	...		6	G.O., No. 3274 W., dated 1st December 1887.
...	...	...	6,450		7	G.O., No. 528 W., dated 7th March 1885. Item No. 11, class B works, budget of 1887-88.
...	3,000	5,000	...		8	Estimate is awaited. Item No. 56, class C works, budget of 1887-88.
...	...	15,260	...		9	
...	...	...	20,000		10	
...	...	23,324	63,320	86,644		

APPENDIX B.

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1888-89, 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 1888-89.			Item No.	Remarks and References.
						Actual to end of 1886-87.	Probable during 1887-88.	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	Infectious disease ward, cook-house and station hospital.	6,140	...	...	...	6,140		1	G.O., No. 320 W., dated 7th February 1884. Item No. 4, class C works, budget of 1887-88.
	Do. ...	Do. ...	2	Alterations and additions to Military prison and adjoining buildings.	...	...	...	...	11,260		2	Estimate is awaited. Item No. 5, class C works, budget of 1887-88.
	Do. ...	Do. ...	3	Swimming-bath, British Infantry.	7,644	...	...	...	7,644		3	G.O., No. 2434 W., dated 19th October 1885. Item No. 3, class C works, budget of 1887-88.
	Do. ...	Do. ...	4	Armourer's shop, 2nd Light Cavalry.	2,695	...	...	...	2,695		4	G.O., No. 2266 W., dated 14th September 1881. Item No. 1, class C works, budget of 1887-88.
	Do. ...	Do. ...	5	Quarters for the Bandmaster, British Infantry.	...	...	...	...	3,520		5	Estimate is awaited.
	Do. ...	Do. ...	6	Quarters for Schoolmaster, British Infantry Regiment.	...	...	...	...	2,950		6	Do. do.
	Do. ...	Do. ...	7	Quarters for Schoolmistress, British Infantry Regiment.	...	...	...	...	2,950		7	Do. do.
	Do. ...	Do. ...	8	Armourer's shop for the Arsenal ...	...	...	...	...	4,650		8	Do. do.
	Nilgiri ...	Wellington ...	9	Gymnasium, 2nd Royal Fusiliers.	...	...	...	...	10,000		9	Estimate is awaited. Item No. 7, class C works, budget of 1887-88.
	West Coast.	Calicut ...	10	A new barrack with subsidiary buildings for 30 men.	...	...	...	...	20,000		10	Estimate is awaited. Item No. 10, class C works, budget of 1887-88.
	Chingleput	Poonamallee...	11	Improving the old barracks ...	...	...	...	...	5,000		11	Estimate is awaited. Item No. 31, class C works, budget of 1887-88.
	Do. ...	Do. ...	12	Warrant Officers' quarters ...	...	...	...	...	3,500		12	Estimate is awaited. Item No. 32, class C works, budget of 1887-88.
	Do. ...	Do. ...	13	Two Staff Sergeants' quarters, first class.	...	...	...	...	6,000		13	Estimate is awaited. Item No. 33, class C works, budget of 1887-88.
	Do. ...	Do. ...	14	Coffee shop	...	...	...	...	9,000		14	Estimate is awaited. Item No. 34, class C works, budget of 1887-88.
	Do. ...	Pallávaram ...	15	One mortuary room for each of the three hospitals, Nos. 1 to 3.	...	...	...	...	3,000		15	Estimate is awaited. Item No. 30, class C works, budget of 1887-88.
	Do. ...	St. Thomas' Mount.	16	A wheeler and collar maker's shop for the West barracks.	5,660	...	...	...	5,660		16	G.O., No. 2717 W., dated 3rd November 1884. Item No. 21, class C works, budget of 1887-88.
	Do. ...	Do. ...	17	Sergeants' mess for East barracks.	...	...	...	...	6,000		17	Estimate is awaited. Item No. 22, class C works, budget of 1887-88.
	Do. ...	Do. ...	18	Quarters for 3 Medical Subordinates attached to the Station Hospital.	...	...	...	..	8,000		18	Estimate is awaited. Item No. 24, class C works, budget of 1887-88.
	Do. ...	Do. ...	19	Quarters for head-quarters staff, Royal Artillery.	...	...	...	...	12,000		19	Estimate is awaited. Item No. 25, class C works, budget of 1887-88.
	Do. ...	Do. ...	20	General improvements to the drains of the cantonment.	...	...	...	...	10,000		20	Estimate is awaited. Item No. 23, class C works, budget of 1887-88.

APPENDIX B—*cont.*

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1888-89, 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 1888-89.			Item No.	Remarks and References.
						Actual to end of 1886-87.	Probable during 1887-88.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				Brought forward ...								
				IMPERIAL ORDINARY—*cont.*								
				MILITARY—*cont.*								
				Original Works—cont.								
(1) *Accommodation for troops*—Buildings for European troops in the plains. Permanent.	Chingleput.	St. Thomas' Mount.	21	Battery office for P/1st Royal Artillery, East barracks.	...	...	...	...	5,000		21	Estimate is awaited. Item No. 26, class C works, budget of 1887-88.
	Do. ...	Do. ...	22	Raising the roof of harness room, troop lines.	4,200	...	...	...	4,200		22	G.O., No. 3137 W., dated 17th December 1881. Item No. 27, class C works, budget of 1887-88.
	Do. ...	Do. ...	23	Wooden shed at the proof range ...	2,820	...	...	...	2,820		23	G.O., No. 3077 W., dated 13th December 1884. Item No. 28, class C works, budget of 1887-88.
	Do. ...	Do. ...	24	Converting the disused gun-shed between the north barracks and main guard into a coffee shop, recreation room and library.	2,520	...	...	...	2,520		24	G.O., No. 1234 W., dated 28th May 1885. Item No. 29, class C works, budget of 1887-88.
	Presidency.	Fort St. George.	25	Remodelling the drainage ...	...	...	...	...	10,000		25	Estimate is awaited. Item No. 14, class C works, budget of 1887-88.
	Do. ...	Do. ...	26	Sundry works in connection with extra accommodation, British Infantry and Royal Artillery.	...	...	...	...	20,000		26	Estimate is awaited.
	Do. ...	Do. ...	27	Repairs to floors of B, C and D blocks family quarters.	...	...	...	...	10,070		27	Do. do.
	Do. ...	Do. ...	28	Construction of coach houses and stables for the use of officers.	...	...	...	...	15,770		28	Estimate is awaited. Item No. 15, class C works, budget of 1887-88.
	Do. ...	Do. ...	29	Constructing two solitary cells in the Military prison.	...	...	...	...	2,800		29	Estimate is awaited.
	Do. ...	Bangalore ...	30	Quarters for Schoolmaster and Schoolmistress, Royal Artillery.	10,240	...	...	...	10,240		30	G.O., No. 2384 W., dated 20th September 1886. Item No. 17, class C works, budget of 1887-88.
	Do. ...	Do. ...	31	New orderly room, or conversion of Quartermaster's stores into orderly room and stores, 12th Lancers.	...	...	...	...	6,500		31	Estimate is awaited. Item No. 18, class C works, budget of 1887-88.
	Do. ...	Do. ...	32	Battery office for Royal Horse Artillery.	...	...	...	...	3,700		32	Estimate is awaited.
	Do. ...	Do. ...	33	Buildings for wheeler's shop, Royal Artillery.	...	...	...	...	3,100		33	Do. do.
	Do. ...	Do. ...	34	Drainage of Royal Horse Artillery grass-cutters' lines at Ulsoor and preventing the fouling of the adjacent nullah.	...	...	...	...	2,846		34	Do. do.
	Do. ...	Do. ...	35	Drainage, British Infantry barracks.	...	...	...	...	8,000		35	Do. do.

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APPENDIX B—*cont.*

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1888-89, BUT OR 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 1888-89.			Item No.	Remarks and References.
						Actual to end of 1886-87.	Probable during 1887-88.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				Brought forward ...	...							
				IMPERIAL ORDINARY—*cont.*								
				MILITARY—*cont.*								
				Original Works—cont.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent	Presidency.	Bangalore ...	36	Quarters for Senior Apothecary, North Station hospital.	5,300	...	...	...	5,300		36	G.O., No. 3385 W., dated 27th November 1883. Item No. 19, class C works, budget of 1887-88.
	Do. ...	Do. ...	37	Quarters for the Assistant Apothecary, North Station hospital.	4,773	...	...	...	4,773		37	G.O., No. 938-2 W., dated 5th April 1884. Item No. 20, class C works, budget of 1887-88.
Accommodation for Native troops.	Vizagapatam.	Vizianagram.	38	Regimental store-room for Native Infantry, including storage for camp equipage.	3,480	...	...	...	3,480		38	G.O., No. 2628 W., dated 27th October 1884. Item No. 35, class C works, budget of 1887-88.
	Bellary ...	Bellary ...	39	School-house for Native Infantry Regiment.	3,030	...	...	...	3,030		39	G.O., No. 149 W., dated 17th January 1884. Item No. 36, class C works, budget of 1887-88.
	West Coast.	Mangalore ...	40	Providing drains for the lines of Native Infantry.	...	...	...	...	11,710		40	Estimate is awaited. Item No. 38, class C works, budget of 1887-88.
	Chingleput.	Pallávaram ...	41	Magazine for Madras Infantry Regiment on standard plan.	4,900	...	...	...	4,500		41	G.O., No. 334 W., dated 8th February 1886. Item No. 41, class C works, budget of 1887-88.
	Do. ...	Do. ...	42	Armourer's shop for Madras Infantry Regiment.	2,880	...	...	...	2,880		42	G.O., No. 3149 W., dated 22nd December 1884. Item No. 42, class C works, budget of 1887-88.
	Presidency.	Bangalore ...	43	Public buildings for a regiment of Native Infantry.	30,990	...	...	...	15,000		43	G.O., No. 1302 W., dated 25th May 1886. Item No. 6, class B works, budget of 1887-88.
	Do. ...	Madras ...	44	Flushing drains of Native Infantry lines at Ráyapuram.	4,300	...	...	...	4,300		44	G.O., No. 1397 W., dated 4th June 1884. Item No. 40, class C works, budget of 1887-88.
	Trichinopoly.	Trichinopoly.	45	Store-rooms and workshop, &c., for four Pioneers.	...	...	...	...	4,900		45	Estimate is awaited. Item No. 43, class C works, budget of 1887-88.
(2) *Ordnance Works* ...	Bellary ...	Bellary ...	46	Constructing six double quarters for the Staff Sergeants attached to the Ordnance Department.	42,420	...	...	...	10,000		46	G.O., No. 1650 W., dated 18th June 1887. Item No. 8, class B works, budget of 1887-88.
	Do. ...	Do. ...	47	Converting the old regimental hospital now used as a Government school into quarters for 9 Warrant Officers, Ordnance Department.	...	...	...	...	20,380		47	Estimate is awaited.
	Presidency.	Fort St. George.	48	Magazines	...	...	...	...	33,000		48	Estimate is awaited. Item No. 9, class B works, budget of 1887-88.
	Do. ...	Madras ...	49	Extra accommodation as store-room in the Gun Carriage Factory.	6,245	...	...	...	6,000		49	G.O., No. 2946 W., dated 5th November 1887. Item No. 45, class C works, budget of 1887-88.

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APPENDIX B—concld.

LIST of WORKS (or CLASS C WORKS) omitted from the BUDGET-ESTIMATE of 1888-89, 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 1888-89.			Item No.	Remarks and References.
						Actual to end of 1886-87.	Probable during 1887-88.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				Brought forward ...								
				IMPERIAL ORDINARY—*concld.*								
				MILITARY—*concld.*								
				Original Works—concld.								
(2) *Ordnance Works...*	Presidency.	Madras ...	50	Coal store, Ordnance Department.	...	...	9,000	15,000	...		50	Estimate is awaited. Item No. 10, class B works, budget of 1887-88.
	Do. ...	Do. ...	51	Providing sun-shades to doors and windows in the Ordnance Lines.	4,160	...	...	...	4,160		51	G.O., No. 2248 W., dated 22nd August 1887.
	Do. ...	Do. ...	52	Shed for the camp equipage ...	6,935	...	...	...	6,935		52	G.O., No. 2558 W., dated 27th September 1887. Item No. 51, class C works, budget of 1887-88.
(3) *Commissariat Buildings.*	Nilgiri ...	Wellington ...	53	Quarters for three Hospital Purveyors.	...	...	...	...	4,500		53	Estimate is awaited.
	West Coast.	Malapuram ...	54	Cattle shed for the Commissariat Department.	...	...	...	...	4,000		54	Do. do.
	Do. ...	Quilon ...	55	Armourer's shop	...	...	...	...	2,600		55	Do. do.
	Chingleput.	Guindy ...	56	Quarters for Station Butcher attached to slaughter-house.	...	...	...	...	4,740		56	Estimate is awaited. Item No. 53, class C works, budget of 1887-88.
	Presidency.	Bangalore ...	57	Quarters for a Conductor, Transport Department.	5,800	...	...	...	5,800		57	G.O., No. 992 W., dated 16th April 1886. Item No. 47, class C works, budget of 1887-88.
	Do. ...	Do. ...	58	Quarters for an Ambulance Sergeant near Cattle lines, Transport Department.	...	...	...	...	3,000		58	Estimate is awaited. Item No. 48, class C works, budget of 1887-88.
	Do. ...	Madras ...	59	Lines for Transport attendants ...	...	...	...	...	48,000		59	Estimate is awaited. Item No. 49, class C works, budget of 1887-88.
	Do. ...	Do. ...	60	Workshops and sheds for carts, doolies, &c., Transport Department.	...	...	...	...	40,680		60	Estimate is awaited. Item No. 50, class C works, budget of 1887-88.
	Do. ...	Do. ...	61	Quarters for a Conductor, Commissariat Department.	...	...	...	...	4,000		61	Estimate is awaited.
	Do. ...	Teynampet ...	62	Constructing a wheat godown ...	...	...	...	...	5,950		62	Estimate is awaited. Item No. 52, class C works, budget of 1887-88.
(8) *Fortifications* ...	West Coast.	Malapuram ...	63	Constructing a fortified post ...	8,248	...	...	...	5,000		63	G.O., No. 3114 W., dated 18th November 1887. Item No. 55, class C works, budget of 1887-88.
	Presidency.	Fort St. George	64	Demolition of Wallajah ravelin and two lunettes.	...	...	...	...	7,426		64	Estimate is awaited. Item No. 57, class C works, budget of 1887-88.
	Do. ...	Do. ...	65	Constructing a draw-bridge at north gate.	...	...	...	...	2,680		65	Estimate is awaited. Item No. 58, class C works, budget of 1887-88.
	Do. ...	Do. ...	66	Demolition of out-houses, clearance of ditch and completion of walls.	...	...	...	...	10,000		66	Estimate is awaited.
(4) *Staff and Miscellaneous.*	Nilgiri ...	Ootacamund.	67	Water-supply, Lawrence Asylum...	...	...	...	...	7,000		67	Estimate is awaited. Item No. 54, class C works, budget of 1887-88.

Preliminary Issue. 13/31-32

Imperial
Military Works.

Madras.

Public Works Department.

Imperial Budget Estimate
of
Military Works
# of the
Government of Madras
for the year
188-89

Chepak
December 1887

J. O. Hasted Colonel R. E.
Secretary to Govt. P. W. D.

13/31-32

Imperial
Military Works.

Madras

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Imperial
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Madras

Revenue.

Abstract of the Budget-Estimate of Revenue of the Public Works Department for Military Works ~~in~~ Madras from 1st April 1888 to 31st March 1889

	Budget Estimate 1888-89 Rs.	Revised Estimate 1887-88 Rs.	Budget Estimate 1887-88 Rs	Actuals 1886-8
In Public Works Department	27,800	25,000	25,000	23,984
In Civil and Military Departments	"	"	"	"
Total	27,800	25,000	25,000	23,984

Charges

Abstract of the Budget-Estimate of Expenditure of the Public Works Department for Military Works in Madras for the year from 1st April 1888 to 31st March 1889

		Reference to Detailed Estimate	Budget Estimate 1888-89 Rs.	Revised Estimate 1887-88 Rs.	Budget Estimate 1887-88 Rs.	Actuals 1886-87 Rs.
Original Works.	In progress	"	57,280	1,62,252	1,42,600	1,45,707
	Not commenced	"	63,320			
Repairs	Ordinary	"	3,00,000	2,78,518	3,00,000	3,11,795
	Special	"	"			
Establishment		"	98,100	1,02,630	1,03,000	1,06,754
Tools and Plant		"	6,300	6,600	4,400	4,589
Suspense Account.		"	"	"	"	
Total		"	5,25,000	5,50,000	5,50,000	5,68,845

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, 1888-89

	Original Works: In progress	Original Works: Not commenced	Original Works: Total	Repairs	Establishment	Tools and Plant	Suspense Account	Barrack Department	Total	Revised Estimate 1887-88	Budget Estimate 1887-88	Actuals 1886-87
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs	Rs	Rs.	Rs.	Rs	R
Provision from Imperial Fund												
In India	57280	63,320	1,20,600	3,00,000	98,100	6,300	"	"	5,25,000	5,50,000	5,50,000	5,67,207
In England	"	"	"	"	"	"	"	"	"	"	"	1,638
Total	57,280	63,320	1,20,600	3,00,000	98,100	6,300	"	"	5,25,000	5,50000	5,50,000	5,68,84
Provision from Contributions												
In India	"	"	"	"	"	"	"	"	"	"	"	"
Grand Total	57,280	63,320	1,20,600	3,00,000	98,100	6,300	"	"	5,25,000	5,50,00	5,50,000	5,68,84

Statement showing the works on which the outlay in England above provided for is to be incurre

Budget Estimate 1888-89

	Original Works: In progress	Original Works: Not commenced	Original Works: Total	Tools and Plant	Suspense Account	Total	Revised Estimate 1887-88	Budget Estimate 1887-88	Actuals 1886-87
	"	"	"	"	"	"	"	"	1,638
Total	"	"	"	"	"	"	"	"	1,638

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Madras.

Part I

Detail of the Budget Estimate for Original Works for the year 1888-89
Class A Works.

Head of Classification	Executive Division	Locality	Item No.	Projects and Works	Amount of Estimate	Outlay: Actual to end of 1886-87	Outlay: Probable during 1887-88	Grant 1888-89: Works in progress	Grant 1888-89: Works not Commenced	Grant 1888-89: Total	Item No.	Remarks and References
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				Imperial Ordinary Military Original Works								
7 Accommodation for troops—Buildings for European Troops in the Plains—Permanent	Bellary	„ Bellary	1	Gunshed for Royal Artillery	15,567	„	3,970	8,956 ✓	„		1	G. O. No: 3236 Wd/ 28th November 1887
	West Coast	Malapuram	2.	Barracks for a detachment of British Infantry to accommodate 50 additional men	182,867	1,22,672	20,000	20,000 ✓	„		2	G. O. No: 2822 Wd/ 21st October 1887 Item No: 1 Class A Works, Budget of 1887-88
11 Accommodation for Native Troops	Presidency	Bangalore	3	Additions &ca to public buildings ~~for~~ Madras Infantry Regiment for a Pioneer Regiment	21,636	15,188	6,636	5,000 ✓	„		3	G. O. No: 2952 Wd/ 29th November 1884. Item No: 2 Class A Works, Budget of 1887-88. Supplemental estimate is awaited.
				Total			„	33,956 ✓	„	33956		

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Military Works

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Detail of the Budget Estimate for Original Works for the year 1888-89
Class B
I Cont.
Works

Head of Classification	Executive Division	Locality	Item No.	Projects and Works	Amount of estimate	Outlay: Actuals to end of 1886-87	Outlay: Probable during 1887-88	Grant, 1888-89: Works in progress	Grant, 1888-89: Works not Commenced	Grant, 1888-89: Total	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs. ~~[illegible]~~		
				Imperial Ordinary Military Original Works								
(1) Accommodation for troops – Buildings for European troops in the plains – Permanent	Nilgiri	Wellington	1	Quarters for three apothecaries		"	"	"	6,500	√	1	Estimate is awaited. Item No. 2, Class B Works Budget of 1887-88.
	Chingleput	Poonamallee	2	New barracks		"	"	"	19,560	√	2	Estimate is awaited.
	Presidency	Bangalore	3	New saddle rooms, British Cavalry		"	"	"	4,500	√	3	– Do. –
(1) Accommodation for Native Troops	Presidency	Madras	4	Constructing 4 latrines, 2 for males and 2 for females, Perambur lines		"	"	"	3,000	√	4	Do. Item No. 29 Class C Works, Budget of 1887-88
(3) Commissariat Building	West Coast	Calicut	5	Sheds for transport animals		"	"	"	3,310	√	5	Do. Item No. 46 Class C Works, Budget of 1887-88.
(8) Fortifications	West Coast	Cannanore	6	Converting the Cannanore Fort into a defensible post	7,790	4,347	"	3,064	"	√X	6	G.O. No. 3274 W. of 1st December 1887
	North Arcot	Vellore	7	Constructing a draw bridge and gate for the fort.	6,450	"	"	"	6,450	√	7	G.O. No. 528 W. d/ 7th March 1885. Item No. 11 Class B Works Budget of 1887-88
				Carried over		"	"	3,064	43,320	√		

Part

Detail of the Budget Estimate f

Class B

I cont.

Original Works for the year 1888-89

Works. cont.

Head of Classification	Executive Division	Locality	Item No.	Projects and Works	Amoun of Estimat	Outlay: Actual to end of 1886-87	Outlay: Probable during 1887-88	Grant, 1888-89: Works in progress	Grant, 1888-89: Works not commenced	Grant, 1888-89: Total	Item No.	Remarks and References
					Rs.	Rs.	Rs.	Rs.	Rs	Rs.		
				Imperial Ordinary Brought forward				3,064	43,320			
				Military								
				Original Works.								
8. Fortifications	Presidency	Fort St. George	8	Facing the enceinte of Fort St. George with Portland cement	.	"	3,000	5,000 ✓	.		8	Estimate is awaited. Item No: 56 Class C Works, Budget of 1887-88.
			9	Reserve with the Govt. for incomplete major works.		"	"	15,260 ✓	.		9	
			10	Minor Works		"	"	"	20,000 ✓		10	
				Total				23,324	63,320	86,644		

Appendi B.

List of Works (or Class C Works) omitted from the Budget Estimate for 1888-89 la on which expenditure may be incurred during the year by reappropriation from Clas Works.

Head of Classification	Executive Division	Locality	Item No.	Projects and Works.	Amou of Estimat	Outlay		Amount applied for 1888-89			Item No.	Remarks and References.
						Actual to end of 1886-87	Probable during 1887-88	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	Infectious disease ward cook house and station hospital	6140	"	"	"	6,140		1	G. O. No: 320 W of 7th February 1884. Item No: 4 Class C Works Budget of 1887-88
	Do	Do	2	Alterations and additions to Military prison and adjoining buildings	"	"	"	"	11,260		2	Estimate is awaited. Item No: 5 Class C Works, Budget of 1887-88
	Do	Do	3	Swimming bath British Infantry	7,644	"	"	"	7,644		3	G. O. No: 2434 W of 19th October 1885. Item No: 3, Class C Works, Budget of 1887-88.
	Do	Do	4	Armourer's shop, 2nd Light Cavalry	2,695	"	"	"	2,695		4	G. O. No: 2266 W of 14th September 1886 Item No: 1 Class C Works, Budget of 1887-88
	Do	Do	5	Quarters for the Bandmaster, British Infty	"	"	"	"	3,520		5	Estimate is awaited
	Do	Do	6	Quarters for schoolmaster, British Infantry Regiment	"	"	"	"	2,950		6	Do.
	Do	Do	7	Quarters for school mistress, British Infantry Regiment	"	"	"	"	2,950		7	Do
	Do	Do	8	Armourer's shops for the Arsenal	"	"	"	"	4,650		8	Do
	Nilgiri	Wellington	9	Gymnasium, 2nd Royal Fusiliers	"	"	"	"	10,000		9	Estimate is awaited. Item No: 7 Class C Work Budget of 1887-88.
	West Coast	Calicut	10	A new barrack with subsidiary buildings for 30 men	"		"	"	20,000		10	Estimate is awaited. Item No: 1 Class C Work Budget of 1887-88.

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Appendix

List of Works (or Class C Works) omitted from the Budget Estimate of 1888-8 B but on which expenditure may be incurred ~~by~~ during the yearly reappropriation from Works.

Clas

Head of Classification	Executive Division	Locality	Item No.	Projects and Works	Amoun of Estimate	Outlay		Amount applied for 1888-89			Item No.	Remarks and References.
						Actuals to end of 1886-87	Probable during 1887-88	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	Chingleput	Poonamallee	11	Improving the old barracks		"	"		5,000		11	Estimate is awaited. Item No: 31 Class C Works, Budget of 1887-88.
	Do	Do	12	Warrant officers' quarters		"	"	"	3,500		12	Estimate is awaited. Item No: 32 Class C Works, Budget of 1887-88.
	Do	Do	13	Two staff sergeants quarters, first cla		"	"	"	6,000		13	Estimate is awaited. Item No: 33, Class C Works, Budget of 1887-88.
	Do	Do	14	Coffee shop		"	"	"	9,000		14	Estimate is awaited. Item No: 34 Class C Works, Budget of 1887-88.
	Do	Pallavaram	15	One mortuary room for each of the 3 hospitals Nos: 1 to 3		"	"	"	3,000		15	Estimate is awaited. Item No: 30, Class C Works, Budget of 1887-88
	Do	St Thomas' Mount	16	A wheeler and collar maker's shop for the West Barracks	5,660	"	"	"	5,660		16	G.O. No: 2717 W of 3rd November 1884. Item No: 21 Class C Works, Budget of 1887-88.
	Do	Do	17	Sergeants' mess for east barracks		"	"	"	6,000		17	Estimate is awaited. Item No: 22, Class C Works Budget of 1887-88
	Do	Do	18	Quarters for 3 medical subordinates atta to the station hospital		"	"	"	8,000		18	Estimate is awaited. Item No: 24, Class C Works, Budget of 1887-88
	Do	Do	19	Quarters for the head quarters staff Royal Artillery		"	"	"	12,000		19	Estimate is awaited. Item No: 25, Class C Works, Budget of 1887-88.
	Do	Do	20	General improvements to the drains of the cantonment		"	"	"	10,000		20	Estimate is awaited. Item No: 23 Class C Works, Budget of 1887-88.

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Madras.

Appendi

B.

List of Works (or Class C Works) omitted from the Budget-Estimate of 1888-89 but on which expenditure may be incurred during the year by reappropriation from Clas Works.

Head of Classification	Executive Division	Locality	Item No.	Projects and Works	Amoun of Estimat	Outlay		Amount applied for 1888-89			Item No.	Remarks and References.
						Actual to end of 1886-87	Probable during 1887-88	Works in progress	Works not Commenced	Total		
					Rs	Rs.	Rs.	Rs.	Rs	Rs.		
				Imperial Ordinary Military Original Works								
Accommodation for he-Buildings for ropean troops in the ains-Permanent	Chingleput	St. Thomas's Mount	21	Battery office for 9/1st Royal Artillery east barracks		"	"	"	5,000		21	Estimate is awaited. Item No: 26, Class C Works, Budget of 1887-88.
Do	Do		22	Raising the roof of harness room, troop lines	4,200	"	"	"	4,200		22	G.O. No: 3137 W d/17th December 1881. Item No: 27 Class C Works, Budget of 1887-88
Do	Do		23	Wooden shed at the proof range	2,820	"	"	"	2,820		23	G.O. No: 3077 W d/13th December 1884. Item No: 28 Class C Works, Budget of 1887-88.
Do	Do		24	Converting the disused gun shed between the north barracks and main guard into a coffee shop, recreation room and library	2,520	"	"	"	2,520		24	G.O. No: 1234 W d/28th May 1885. Item No: 29 Class C Works, Budget of 1887-88.
Presidency	Fort St. George		25	Remodelling the drainage		"	"	"	10,000		25	Estimate is awaited. Item No: 14, Class C Works, Budget of 1887-88.
Do	Do		26	Sundry works in connection with extra accommodation, British Infantry & Royal Artillery		"	"	"	20,000		26	Estimate is awaited.
Do	Do		27	Repairs to floors of B, C & E blocks, family quarters		"	"	"	10,070		27	Do
Do	Do		28	Construction of coach houses & stables for the use of officers		"	"	"	15,770		28	Do – Item No: 15 Class C Works Budget of 1887-88
Do	Do		29	Constructing two solitary cells in the Military prison		"	"	"	2,800		29	Estimate is awaited.

Appendi B

List of Works (or Class C Works) omitted from the Budget Estimate of 188-89 on which expenditure may be incurred during the year by reappropriation from Class B Works.

Head of Classification	Executive Division	Locality	Item No.	Projects and Works	Amount of Estima Rs	Outlay: Actual total of 1886-87 Rs.	Outlay: Probable during 1887-88 Rs.	Amount applied for 1888-89: Works in progress Rs.	Amount applied for 1888-89: New Works not commenced Rs	Amount applied for 1888-89: Total Rs	Item No.	Remarks and References
				Imperial Ordinary Military Original Works.								
(1) Accommodation for troops - Buildings for European troops in the plains - Permanent	Presidency	Bangalore	30	Quarters for schoolmaster and schoolmistress Royal Artillery	10,240	"	"	"	10,240		30	G.O. No: 2384 W d/20th September 1886. Item No: 17, Class C Works, Budget of 1887-88
Do		Do	31	New orderly room or conversion of Quarter master's stores into orderly room and stores 12th Lancers		"	"	"	6,500		31	Estimate is awaited. Item No: 18, Class C Works, Budget of 1887-88.
Do		Do	32	Battery office for Royal Horse Artillery		"	"	"	3,700		32	Estimate is awaited.
Do		Do	33	Buildings for Wheeler's shop, Royal Artillery		"	"	"	3,100		33	Do
Do		Do	34	Drainage of Royal Horse Artillery grass cutters' lines at Ulsoor and preventing the fouling of the adjacent nullah		"	"	"	2,846		34	Do
Do		Do	35	Drainage, British Infantry barracks	"	"	"	"	8,000		35	Do
Do		Do	36	Quarters for Senior Apothecary North station Hospital	5,300	"	"	"	5,300		36	G.O. No: 3385 W d/27th November 1883. Item No: 19, Class C Works, Budget of 1887-88.
Do		Do	37	Quarters for the Assistant Apothecary North station Hospital	4,773	"	"	"	4,773		37	G.O. No: $\frac{938}{2}$ W d/5th April 1884. Item No: 20, Class C Works, Budget of 1887-88.
(11) Accommodation for Native Troops	Bellary	Bellary	39	School house for Native Infantry Regiment	3,030	"	"	"	3,030		39	G.O. No: 144 W d/17th January 1884. Item No: 36, Class C Works, Budget of 1887-88.
	Vizagapatam	Vizianagram	38	Regimental store room for Native Infantry including storage for Camp Equipage	3,480	"	"	"	3,480		38	G.O. No: 2628 W d/27th October 1884 Item No: 35 Class C Works, Budget of 1887-88

B.

List of Works (or Class C Works) omitted from the Budget Estimate of the Applic Class

tion on which expenditure may be incurred during the year by reappropriation from Works.

Head of Classification	Executive Division	Locality	Item No.	Projects and Works	Am	Outlay: Actual to end of 1886-87 Rs.	Outlay: Probable during 1887-88 Rs.	Amount applied for 1888-89: Works in progress Rs.	Amount applied for 1888-89: Works not commenced Rs.	Amount applied for 1888-89: Total Rs.	Item No.	Remarks and References
				Imperial Ordinary Military Original Works.								
(1) Accommodation for Native Troops	West Coast	Mangalore	40	Providing drains for the lines of Native Infantry		"	"	"	11,710	40	40	Estimate is awaited. Item No: 38, Class C Works, Budget of 1887-88.
	Chingleput	Pallavaram	41	Magazine for Madras Infantry Regiment on standard plan	4,5	"	"	"	4,500	41	41	G. O. No: 334 W d/ 8th February 1886. Item No: 41 Class C Works, Budget of 1887-88.
	Do	Do	42	Armourers' shop for Madras Infantry Regiment	2,88	"	"	"	2,880		42	G. O. No: 3149 W d/ 22nd December 1884. Item No: 42 Class C Works, Budget of 1887-88.
	Presidency	Bangalore	43	Public buildings for a regiment of Native Infantry	30,0	"	"	"	15,000		43	G. O. No: 1302 W d/ 25th May 1886. Item No: 6 Class B Works, Budget of 1887-88.
	Do	Madras	44	Flushing drains of Native Infantry lines at Royapuram	4,3	"	"	"	4,300		44	G. O. No: 1397 W d/ 4th June 1884. Item No: 40 Class C Works, Budget of 1887-88.
	Trichinopoly	Trichinopoly	45	Store rooms and workshop &ca for 4th Pioneers		"	"	"	4,900		45	Estimate is awaited Item No: 43, Class C Works, Budget of 1887-88.
(2) Ordnance Works	Bellary	Bellary	46	Constructing six double quarters for the staff sergeants attached to the Ordnance Department	42,420	"	"	"	10,000		46	G. O. No: 1650 W d/ 18th June 1887. Item No: 8, Class B Works, Budget of 1887-88.
	Bellary	Bellary	47	Converting the old regimental hospital now used as a Govt school into quarters for 9 warrant officers, Ordnance Department		"	"	"	20,380 ~~22,000~~		47	Estimate is awaited. ~~Item No 9 Class B Works Budget of 1887-88~~
	Presidency	Fort St. George	48	Magazines		"	"	"	33,000		48	Estimate is awaited. Item No: 9 Class B Works, Budget of 1887-88
	Do	Madras	49	Extra accommodation as store rooms in the Gun Carriage Factory	6,245	"	"	"	6,000		49	G. O. No: 2946 W d/ 5 November 1887 Item No: 45, Class C Works, Budget of 1887-88.

Imperial
Military Works.

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List of Works (or Class C Works) omitted from the Budget Estimate
Appropriation
from Class

Head of Classification	Executive Division	Locality	Item No:	Projects and Works	Amoun of Estimat
				Imperial Ordinary Military Original Works	
(2) Ordnance Works	Presidency	Madras	50	Coal store, Ordnance Department	
	Do	Do	51	Providing sunshades to doors & windows in the Ordnance Lines	4,160
	Do	Do	52	Shed for the Camp Equipage	6,935
(3) Commissariat Buildings	Nilgiri	Wellington	53	Quarters for 3 Hospital Purveyors	.
	West Coast	Malapuram	54	Cattle shed for the Commissariat Depôt	.
	Do	Quilon	55	Armourer's shop	.
	Chingleput	Guindy	56	Quarters for station butcher attached to Slaughter house	.
	Presidency	Bangalore	57	Quarters for a Conductor, Transport Depôt	5,800
	Do	Do	58	Quarters for an Ambulance Sergeant near cattle lines, Transport Department	
	Do	Madras	59	Lines for transport attendants	
	Do	Do	60	Workshops & sheds for carts, doolies, &c, Transport D	
	Do	Do	61	Quarters for a Conductor, Commissariat Depô	
	Do	Trynampet	62	Constructing a wheat godown	.
(8) Fortifications	West Coast	Malapuram	63	Constructing a fortified post	8,248
	Presidency	Fort St. George	64	Demolition of Wallajah ravelin and two lunettes	
	Do	Do	65	Constructing a draw bridge at North Gate	
	Do	Do	66	Demolition of outhouses, clearance of ditch & completion of walls	
(4) Staff & Miscellaneous	Nilgiri	Ootacamund	67	Water supply, Lawrence Asylum	

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81-82

22

Madras.

B

of 1888-89 but on which expenditure may be incurred during the year by reappropriation
B Works.

Outlay		Amount applied for 1888-89				
Actual to end of 1886-87	Probable during 1887-88	Works in progress	Works not commenced	Total	Item No:	Remarks and References
Rs	Rs	Rs	Rs	Rs		
"	9,000	15,000	.		50	Estimate is awaited. Item No: 10 Class B Works, Budget of 1887-88
"	"	~~[illegible]~~	4,160		51	G.O. No: 2248 W of 22nd August 1887
"	"	"	6,935		52	G.O. No: 2658 W of 27-9-87. Item No: 51, Class C Works, Budget of 1887-88
"	"	"	4,500		53	Estimate is awaited.
"	"	"	4,000		54	Do
"	"	"	2,600		55	Do
"	"	"	4,740		56	-Do- Item No: 53, Class C Works, Budget of 1887-88.
"	"	"	5,800		57	G.O. No: 992 W of 16-4-86. Item No: 47 Class C Works, Budget of 1887-88
"	"	"	3,000		58	Estimate is awaited. Item No: 48, Class C Works, Budget of 1887-88.
"	"	"	48,000		59	— Do — Do - 49 — Do — Do —
"	"	"	40,680		60	— Do — Do - 50 — Do — Do
"	"	"	4,000		61	Estimate is awaited.
"	"	"	5,950		62	— Do — Item No: 52 Class C Works, Budget of 1887-88
"	"	"	5,000		63	G.O. No: 3114 W of 18-11-87. Item No: 56 Class C Works, Budget of 1887-88
"	"	"	7,426		64	Estimate is awaited. Item No: 57, Class C Works, Budget of 1887-88
"	"	"	2,680		65	— Do — Do 58 — Do — Do
"	"	"	10,000	"	66	Estimate is awaited.
"	"	"	7,000		67	Estimate is awaited. Item No: 54 Class C Works, Budget of 1887-88.

21/12

27
31-32

Statement of Major Works proposed to be carried out in [illegible] to accompany letter No. 4170 dated 18th November 1887 to the Qr Master General

25
31-32

Executive Division	Locality	Item No.	Projects and Works	Amount of estimate	Outlay Up to 1886-87	Outlay probable during 1887-88	Proposed grant for 1888-89	
			Imperial Ordinary Military Major Works					
Bellary	1 Bellary	A 1	Gunshed for Royal Artillery	15,537	"	3970	8957	✓ 3236 N / 28-11-87 ✓ A
Nilgiri	1 Wellington	B 2	Quarters for three apothecaries	"	"	5000	6500	✓ B
Presidency	2 Bangalore	A 3	Additions &c to public buildings Madras Infantry Regiment for a Pioneer Regiment	21636	15188	6636	12000	✓ A - 7000 on account of extra storage accommodation withheld.
North Arcot	4 Vellore	B 4	Constructing a draw bridge and gate for the fort	6450	"	"	6450	✓ B
West Coast	2 Malapuram	A 5	Barracks for a detachment of British infantry to accomodate 50 additional men	~~1,89,142~~ 1,82,867	122672	20000	20000	✓ A
Chingleput	5 Poonamallee	3	New barracks				19,560	✓ B estimate is awaited
Presidency	6 Bangalore	3 6	New saddle room British Cavalry	"	"	-	4500	✓ B
Do	7 Do	B 7	Public buildings for a regiment of Native Cavalry	30990	"	.	15,000	- 15000 - Considered unnecessary as owing to detention of a regiment in Burma a regiment will not be placed in Bangalore
Do	7 Madras	3	New Native Native Infantry lines Perambur				3,000	✓ B Estimate is awaited
West Coast	8 Calicut	3	Sheds for transport animals				3,310	✓ B Do

Presidency

Statement of Major Works proposed to be carried out in 188 to accompany letter No. 4170 dated 18th November 1887 to the Qr Master General

Executive Division	Locality	Item No.	Projects and Works	Amount of estimate	Outlay up to 1886-87	Outlay probable during 1887-88	Proposed grant for 1888-89	
Presidency	Madras	8	Shed for the Camp Equip	6935 —	"	"	6935	-6935 · Is considered by H E the Cmdr in chief to be an ordnance work
West Coast	10 Cannanore	3	Converting the Cannanore defensible post	7790			3,064	The estimate has been returned for reconsideration G. O. No 3274 N of 1-12-87
Do	Ft St George	9	Facing the enceinte of Fort St George with Portland cement	"	"	"	5000	
							85,340	

86,644
33,956
120,600

33956
23,324
57,280

Statement of Major Works proposed to be carried out in 1888-89 to accompany letter No. 4170 dated 18th November 1887 27/31-32 to the Qr Master General

Executive Division	Locality	Item No.	Projects and Works	Amount of estimate	Outlay		Proposed grant for 1888-89
					Up to 1886-87	probable during 1887-88	

Imperial Military works.— First Circle.— Part I.

29/31-32

Detail of the Budget Estimate for original works for the year 1888-89.—

28/31-32

Head of classification.—	Executive Divisions	Locality	Item No.	Projects and Works.—	Amount of Estimate.—	Outlay.—		Grant for 1888-89			Item No.	Remarks and References.—
						Actual to end of 1886-87.—	Probable during 1887-88.—	Works in progress	Works not commenced	Total.—		
				Military Original Works Major								
Accommodation for Troops. Buildings for Native Troops.—	Visagapatam	Vizianagram	1	Constructing Store shed for Native Infantry 16th Regiment	3480	.	.	.	3480	3480 ✓	1	G. O. No. 2628 W. of 27th October / 84.—

Dowlaiswaram
10/10/87
Despd 18th

C. Stewart
Superintending Engineer
1st circle.—

Budget of Imperial Milit
Works
for 1888-89.—

To accompany Letter
No. 251 G/ d/ 10/10/87
from the Supdg Engineer
1st Circle to the Chief En
D.P.W.

Imperial Military
Budget for
1888-89.—

Imperial Military Budget estimate.

Statement showing the amounts of the estimated requirements in lumpsums to be provided in the Imperial Budget estimate for 1888-89.

30/37

31/31-37

	Minor works.				Repairs.				
Divisions.	Military	Civil buildings	Communications	Miscellaneous Public Improvements	Military	Civil buildings	Communications	Miscellaneous Public Improvements	Tools & Plant.
Ganjam.	500	.	.	.	2000	.	.	.	.
Vizagapatam	3230*	.	.	.	2500	.	250	.	.
Godavari Eastern.	.	.	.	.	1250	.	.	.	.
Godavari Central.	.	.	.	.	.	.	.	.	.
Godavari Western.	.	.	.	.	.	.	.	.	.
Total.	3730	.	.	.	5750	.	250	.	.

Remarks.

* This amount is required for the following works.

	Rs
1. Regimental Magazine for Native Infantry at Vizianagram G. O No. 278W of 5/2/85.	1530
2. Improvements to the Regimental hospital Native Infantry at Vizianagaram. G. O. No. 1746W d/16/7/84.	545.
3. Additions to the Regimental hospital Native Infantry at Vizianagaram G. O. No. 179W of 31st January /84.	515
4. Latrine of six seats for the Native Infantry at Vizianagaram. Sanctioned by Superintending Engineer.	350
Lump sum grant for unforeseen items.	290
	3230

Dowleswaram
10/10/87
Despd 18/

C. Ewalt
Superintending Engineer
1st circle.

Imperial Military works 32
81-32

Abstract of the Budget estimate of expenditure under Imperial Military works for 1888-89

Divisions	Repairs	Remarks
	Rupees	
Nellore	240	For compensation for quarters for Military Subordinates
	240	

Imperial Military works

Statement of approximate outlay during the official year 1887-88 called for in G O No 2288 W of the 16 August 1883 on works in the 2nd Circle

Divisions	Repairs	Remarks
	Rs	
Nellore	240.	For compensation for quarters for military upper subordinates
	240	

Supdg Engineer's Office
2nd Circle
Bezwada
14th October 1887

J. W. Rundall
Supdg Engineer
2nd Circle

Compd

P.W.C. No. 825

18 87

R 18.10.87

2nd Circle.

Imperial - Military works
Budget for 1888-89.

Statement showing the proposed expenditure in the ensuing official year and the approximate outlay in the current official year under all Budget Heads "Major Works" being specified in detail to accompany the Budget Estimate for 1888-89.

Division	Details	Estimate amount	Grant for 1887-88	Approximate expenditure during 1887-88	Proposed expenditure during 1888-89	Remarks
	Imperial Military Major Original Works.					
Bellary	Collar Maker & Wheeler's shop Royal Artillery	5663	4579	4579	"	
Do.	Double Apothecary's quarters Station Hospital	7856	1850	1850	"	
Do.	Five double quarters for the Staff Sergeants attached to Ordnance Department	42,420	10,000	"	20,000	
Do.	A new Gun shed Royal Artillery	"	3970	3970	9000	
Do.	Infectious disease ward & Cook house for the Station Hospital	6140	"	"	6140	
Do.	Armourer's shop 2nd Light Cavalry	2695	"	"	2695	
Do.	Swimming bath for the European Infantry	7644	"	"	7644	
Do.	School house for one Native Infantry Regiment	3030	"	"	3030	
	Minor Works (Lump sum)	"	1800	1800	2000	
	Repairs Annual Repairs (Lump sum)	"	26250	26250	31,250	

Supdg Engr's office 3rd Circle
Bellary 1 October /87

H Smalley Col R.E.
Supdg Engineer
3rd Circle

Statement to accompan
Imperial Military Budget
Estimate for 1888 89—

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perial

ldings & Roads

36/31-32. 3rd Circle

Budget Estimate for 1888-89.

Abstract

	Estimate 1888-89		Estimate 1887-88	
	Amount	Total	Amount	Total
Military				
Original Works	50,509		22199	
Repairs	31,250		26250	
Total Military		81,759		48449

Imperial
Buildings and Roads

Part I

Detail of the Budget Estimate of Original Works Imperial Buildings & Roads for the year 1888-89.

Head of classification	Executive Division	Locality	Item No.	Projects and Works	Amount of estimate	Outlay: Actual to end of 1886-87	Outlay: Probable during 1887-88	Grant 1888-89	Remarks and References.
				Imperial Military Original Works Major					
Ordnance Works	Bellary	Bellary	1	Constructing six double quarters for the staff Sergeants attached to the Ordnance Department.	42420	"	"	20000	G. O No. 1650 W dated 18th June 1887.
Accommodation for troops	Do.	Do.	2	A new Gun shed Royal Artillery	"	"	3970	9000	G. O No. 1922 W dated 18th July 1887.
Buildings for European troops	Do.	Do.	3	Infectious disease ward & cook house for the station hospital.	6140	"	"	6140	G. O No. 320 W D/ 7th February/84 Item No. 4 class C works Budget 1887-88.
	Do.	Do.	4	Armourer's shop 2nd Light Cavalry	2695	"	"	2695	G. O No. 2266 W D/ 14th September 1881 Item No. 1 class C works Budget of 1887-88.
	Do.	Do.	5	Swimming bath for the European Infantry	7644	"	"	7644	G. O No. 2434 W D/ 19th Octr/85 Item No. 3 class C works Budget of 1887-88.
	Do.	Do.	6	School house for one Native Infantry Regiment	3030	"	"	3030	G. O No. 149 W D/ 17th January/84 Item No. 36 class C works Budget of 1887-88.
							Total	48,509	

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31-82

Head of classification	Executive Division	Locality	Items &c	Projects and Works	Amount of estimate	Outlay		Grant 1888-89	Remarks & references
						Actual to end of 1886-87	Probable during 1887-88		
					Brought forward			48,509	
	Bellary	Bellary	"	Grant for Minor Works costing under Rs 2500 each	"	"	"	2000	
					Total Military			50,509	

Executive Engineer

Imperial
Buildings & Roads

Part II

3 Circle

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31.32

Budget Estimate for Repairs, Imperial Buildings and Roads for the year 1888-89.

Head of classification	Division	District	Items	Estimate 1888-89		Estimate 1887-88	
				Amount	Total	Amount	Total
			Imperial Military Repairs				
Military	Bellary	Bellary	Annual Repairs	30,000		25000	
Do	Cuddapah	Cuddapah	Do	600		600	
Do	Kurnool	Kurnool	Do	650		650	
			Total Military		31,250		26250

Supdg Engrs Office 3rd Circle
Bellary 1st October 1887

H Smalley. Col: RE
Supg: Engineer 3rd Circle

From PWC No 7722
The Deputy Engineer
3rd Circle

To
The Chief Engineer
PW Departt
Madras

D/. 1st } October 1887
Recd 4 }

Imperial Military
Budget Estimate
for 1888–89

40
31-82

West Coast Division. Fourth Circle

Statement showing the approximate outlay under Imperial Military during 1887-88.

Head of Classification	Approximate outlay during 1887-88	Remarks
Imperial Military		
Major	20000	
Minor	7000	
Total original	27,000	
Repairs	26,000	

Executive Engineer's Office
Calicut 1st October 1887

(By order)
S. Bhaganatha Pai
Executive Engineer.

SUPDG: ENGINEER'S OFFICE
No. 767 W
3-OCT.87
P. W. D.
FOURTH CIRCLE

Em 5

To

The Superintending Engin
Fourth Circle.

E 2
P.W. 7044
8

Dated 1st } October
Received 4 }

Statement showing approximate expenditure during 1887-88, under Imperial Military, t accompany Budget Estimate for 1888-89

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31-32

Imperial Military Works.

IV Circle.

Public Works Department.

Imperial Budget Estimate

of

Military Works

for the year

1888-89

E.5
PW7882/87

Camp Meppadi }
2nd October 1887 }

R Beatty. Colonel. R.E.
Superintending Engr.
IV Circle.

N

Imperial
Military works

IV Circle.

Contents.

Abstract of the Budget estimate of Revenue page 1
——— Do ——— Expenditure pages 2 to 4
Details of the Budget estimate of Expenditure
Part I Detail of Estimate for
Original works &ca. pages 5 to 20.

Revenue

Abstract of the Budget estimate of Revenue of the Public Works Department from Military works in the IV Circle from 1st April 1888 to 31st March 1889.

	Budget estimate 1888—89	Revised estimate 1887-88	Budget estimate 1887—88	Actual 1886—87
In Public Works Department	40	36	36	3183
In Civil and Military Deptt	1200	1200	1200	1200

Charges.

Abstract of the Budget Estimate of expenditure of the P. W. Department of Military works in the IV Circle for the year from 1st April 1888 to 31st March 1889.

		Reference to detailed estimate	Budget estimate 1888—89	Revised estimate 1887—88	Budget estimate 1887—88	Actuals 1886—87
Original works	In progress	"	25,400	31,135	36,036	43,528
	Not commenced.	"	78,110			
Repairs	Ordinary	"	64,000	55,000	55,000	63,390
	Special	"	2,500			
Establishment		"	"	"	"	"
Tools and Plant		"	"	"	"	"
Suspense account		"	"	"	"	"
Total			170,010	86,135	91,036	106,918

Abstract of the Charges to be incurred by the Public Works Department from Imperial Funds and contributions in both India and England.

	Budget estimate 1888—89									Revised estimate 1887—88	Budget Estimate 1887—88	Actuals 1886—87.
	Original works			Repairs	Establishment	Tools and Plant	Suspense account	Barrack department	Total			
	In Progress	Not yet commenced	Total									
Provision from Imperial Fund.			103,510	66,500	〃	〃	〃	〃	170,010	86,135	91,036	106,918.
In India—	25,400	78,110	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃
In England—	〃	〃										
Total.	25400	78,110	103,510	66,500	〃	〃	〃	〃	170,010	86,135	91,036	106,918
Provision from contributions												
In India	〃	〃										
Grand Total	25,400	78,110	103,510	66,500	〃		〃	〃	170,010	86,135	91,036	106,918

Part I

Imperial Military Works.

Detail of the Budget Estimate for original works for the year 1888-89.

Head of classification	Executive Division	Locality	Item No.	Projects and works	Amount of estimate	Outlay		Grant 188-89			Item no	Remarks and references.
						Actual to end of 1886-87	Probable during 1887-88	Work in progress	Work not commenced	Total		
				Imperial Ordinary Military Original works								
1. Accommodation for troops Building for European troops in the plains permanent.	West Coast	Malapuram-	1	Barracks for a detatchment of British infantry to accommodate 50 additional men.	182,142	122,672	20,000	20,000	✓		1	G.O. No. 2305W of 13-9-86 " " 560W of 24-2-87 " 1570W of 11-6-87 " 1733W of 29-6-87 " 2271W of 24-8-87
	Nilgiri	Wellington	2	Constg: Qrs for one apothecary and 2 Asstt apothecaries-	21,400	"	16,000	5,400	✓	25400.	2	Item No. 2 class B. works of Budget for 1887-88
3 Commissariat Buildings	"	"	3	Constg: Quarters for 3 Hospital purveyors					4,500		3	Estimate under preparation.
						Carried over			4,500	25,400		

3

Part I

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Imperial Military Works

Detail of the Budget Estimate for original works for the year 1888-89-

Head of classification	Executive Division	Locality	Item No.	Projects and works	Amount of Estimate	Outlay		Grant 1888-89			Item No.	Remarks and references.
						Actual to end of 1886-87	Probable during 1887-88	Works in progress	Works not Commenced	Total		
						B. forward		———	4,500	25,400		
	West Coast	Calicut	4	Mules and cattle shed and ambalance cart-	3310	"	"	"	3000		4	Estimate submitted thro the dy Assistant Qr. Mr. General Western District with No. 299 M dy 30" September/86.
		Quilon	5	Contg Armourer's Shop	2,600	"	"	"	2,600	10,100	5	Estimate under preparation.
(4) Staff & miscellaneous.	Nilgiri	Ootacamund	6	Improvements to the Lawrence Asylum Buildings	"	"	"	,"	20,000		6	Estimate under preparation.
			7	Water supply to Lawrence Asylum Buildings	"	"	~~12,350~~	"	12,350	32350	7	Estimate submitted with this office No. 330 EW dy 5th August 1887.
(7) General Cantonment works	Westcoast	Mangalore	8	Providing drains for the lines of Native Infantry. 7	11,710	"	"	"	6000	6,000	8	Estimate submitted thro the Dy. Asstt. Qr. Mr. General, Belgaum with No. 274 M dy 2d Augt 1887.
						C.O.				73850 8'		

Part I.

47
31-32

Imperial Military Works.

Detail of the Budget Estimate for original works for the year 1888–89.

Head of Classification	Executive Division	Locality	Item No.	Projects and works	Amount of estimate	Outlay		Grant - 1888-89			Item No.	Remarks and references.
						actual to end of 1886-87	Probable during 1887-88	Works in progress	works not commenced	Total		
						B. forward				73,850		
8. Fortifications	West Coast	Malapuram	9	Constg: fortification	8,840	"	"	"	8840	8,840	9	Estimate submitted thro' the Dy. Asstt. Qr. Mr. General, Southern Distt. with No. 229 M dy 2nd July/87. and returned for slight revision; will be re-submitted shortly.
				Total				25,400	57,290	82,690		
				Minor Works								
1. Accommodation for Troops Buildings for Europeans in the plains, permanent	Nilgiri	Wellington	10	Laying 2" pipes from drinking cistern to Station Hospital	2,226	"	"	"	2,226		10	G.O. No. 893 W dy 2nd April 1886.
	West Coast	Malapuram	11	Converting the Beer godown into a gymnasium shed	790	"	"	"	790		11	G.O. No. 348 W dy 13th Feby/85
						Carried over				3,016		

Imperial Military Works.

Detail of the Budget estimate for original works for the year 1888–89.

Head of classifica-tion	Executive Division	Locality	Item No.	Projects and works	Amount of estimate	Outlay		Grant 1888–89			Item No.	Remarks and reference.
						Actual to end of 1886-87	Probable during 1887-88	Works in progress	Works not commen-ced	Total		
						Brought forward			3,016			
	West Coast	Malapuram	12	Constg: a plat form and a pump for a well at the barracks.	1110	„	„	„	1110	.	12	G.O. No. 1034 W d/ 2-5-85
	„	„	13	Forming a Soldier's garden	220	„	„	„	220		13	Supg: Engrs No. $\frac{9}{1885/86}$.
	„	Mangalore	14	Constg: a perma-nent verandah for the Qr Mr. Stores Native Infantry Regi-ment	630	„	„	„	630		14	G.O. No. 1648 W d/ 1st July/84.
	„	„	15	Flooring with tar composite the N. I. place of arms	653	„	„	„	653		15	G.O. No. 285 W d/ 6th Febry/85
						Carried over			5629			

Part I

Imperial Military Works.
Detail of the Budget Estimate for Original Works for the year 1888—89-

Head of classifica-tion	Executive Division	Locality	Item No.	Projects and works	Amount of estimate	Outlay		Grant 1888—89			Item No.	
						Actual to end of 1886-87	Probable during 1887-88	Works in progress	Works not commen-ced	Total		
						Brought forward —			5,629			
	West Coast	Mangalore	16	Substituting asphalte for Chunam in the floor of the ward and Surgery of the Hospital at-tached to the N. I. regiment	695.	"	"	"	695		16	G.O. No. 1647 W d/11-7-84.
	"	"	17	Constg: parapet walls to two wells and erecting 9 iron dust bins and providing 6 designa-tion boards for hospital wards	671	"	"	"	671		17	G.O. No. 1973 W d/23rd July 1887.
	Quilon		18	Constg 2 Solitary cells attached to Barracks	1,245	"	"	"	1,245		18	G.O. No. 1861 W d/12th July/87
						Carried over —			8240			

9/31-32

Imperial Military Works
Detail of the Budget Estimate for Part I. Original Works for the year 1888-89.

Heads of classifi-cation	Executive Division	Locality	Item No.	Projects and works.	Amount of estimate	Outlay: Actual to end of 1886-87	Outlay: Probable during 1887/88	Grant 1888-89: Works in progress	Grant 1888-89: Works not Commenced	Grant 1888-89: Total	Item No.	Remarks and references.
						Brought forward—			8,240			
	West Coast	Calicut	19	Constg: 2 Servants Houses and stables to apothecaries Qrs West Hill Barracks	990	"	"	"	990		19	This work is considered not urgent by the Qr. Mr. General Southern District. Vide his No. 24 of 6th June 1887.
	"	"	20	Constg: wooden palisading on the western side of the Station Hospital	119	"	"	"	119		20	Estimate approved by the Military autho-rities.
	"	Cannanore	21	Additions and altera-tions to the orderly room and school building for ac-commodation Station Hospital	2434	"	"	"	2434		21	Estimate submitted thro the Dy Asstt Qr Mr General Southern District with No. 337 M of 14" Sept/87.
						Carried over—			11,783			

Part I

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31-38

Imperial Military works

Detail of the Budget estimate for original works for the year 1888–89

Head of classification	Execution division	Locality	Item No.	Projects and works	Amount of estimate	Outlay		Grant 1888–89			Item No.	Remarks and reference.
						Actual to end of 1886–87	Probable during 1887–88	Works in progress	Works not commenced	Total		
						Brought forward			11,783			
	West coast	Mangalore	22	Reconstructing a well in the lines of the 7th Company of the 31st Regiment Native Infantry Mangalore	487	"	"	"	487		22	Estimate submitted to the Military authorities for countersignature.
	Nilgiri	Wellington	23	Levelling Rifle range for the use of the Royal Fusiliars	1050				1050		23	Estimate submitted to the Military authorities for countersignature
		Unforeseen		Minor New Works. Nilgiri Dn. 6000 West coast Dn. 1000 Coimbatore Dn. 500	7,500		—		— 7,500			
						Carried over			20,820			

Part I

Imperial Military Works.

Detail of the Budget Estimate for original works for the year 1888-89

Head of classification	Executive Division	Locality	Item No.	Project and works	Amount of Estimate	Outlay		Grant 1888-89			Item No.	Remarks and References.
						Actual to end of 1886-87	Probable during 1887-88	Works in progress	Works not commenced	Total		
						Brought forward —			20,820			
		Unforeseen		**Repairs** ⊗ Nilgiri Dn. . 35,000 West Coast Dn. . 26,000 Coimbatore " — Ordinary 3000. Special. 2500 } 5,500	66,500	"	"	"	66,500			⊗ This is in excess of last years allotment, as a large estimate will have to be sanctioned for repairs to roofs of barracks at Wellington.

55
31-32

SUPG: ENGINEER'S OFFICE
No. 4/616k9
2- SEP. 87
P.W.D.
FOURTH CIRCLE

E.6
PW7883

Imperial

Statement Shewing Approximate Expenditure under Budget Heads for 1887-88.

Imperial

Statement Shewing the Approximate Expenditure under the Budget Heads during 1887-88 to accompany the Budget for 1888-89.

Item No.	Name of work.	Amount of Estimate	Expenditure to end of 1886-87.	Approximate outlay in 1887-88	Remarks.
	Military				
	Original Works. Major.				
1	Constructing a Bakery at Wellington	35.850	30.132	5,500	Only Rs 5000 granted for 87/88: as the work will be completed in 87/88 any further Amt. reqd. as appropriation will be applied for later on.
2	Constructing Quarters with out houses for a Barrack Sergt. at Wellington —	7.348	3.213	3.550	Will be completed in 87/88 with a saving of about Rs 600
3	Impts. to a portion of Lau: Asylum Buildings occupied by Messrs. Perkins & Co.	2.760	2.191	55	Completed.
4	Impg. & altering Hospital Nursery Dormitories of the Male & Female branches L.A.	3.030	2.404	73	Do.
5	Constructing Quarters for 3 apothecaries at Wellington	"	"	16.000	These amounts will be fully utilized if the Estimates are Sanctioned Soon.
6	Constructing new Magazine for a Regt. of British Infantry, Wellington	"	"	4.000	
	Minor Works.				
7	Providing Cooking Stoves for Staff Sergt's Quarters, Wellington	540	"	"	Not urgent.
8	— do — 2 inexpensive Gates to H.E. the Commander in chief encamping Ground at Wellington.	65	"	"	Do.
	— do — Stands for 250 Ammunition boxes in the Main Guard, Wellington	508	"	508	Will be completed if the Funds applied for in this office No 1476/9-8-87 are provided.
10	Making a flag Staff for Officer Commg. Southern Dist. at Coonoor —	270	"	270	Will be completed in 1887-88.
11	Alterations to Wellington Barracks for accomodation of Convalescent Depôt & Dist. Staff Offr.	940	"	940	Do. — Do.
12	Alterations to Officers Mess Buildings at Wellington	235	"	235	Will be completed if the funds applied for in this office No. 1475/9-8-87 are provided
13	Consg. a Masonry drain from Barrack Sqre. to the Engr's Office at Wellington	510	"	510	
	7 other minor Works below Rs 200 each	676	"	676	will be completed in 87/88.
	Imperial Military Repairs —	"	"	25.000	

Ootacamund
31 August '87

Executive Engineer
Nilgiri Division

57
81-82

SUPDG. ENGR'S OFFICE
No. 7274/1
27 SEP. 87
P. W. D.
FOURTH CIRCLE

67
PW 7883/

Coimbatore Division

Statement shewing the proposed expenditure in the year 1888-89 and the approximate outlay in the current official year under the Budget Head.
Imperial Military

Projects and Works	Amount of Estimate	Outlay up to 31st March 1887	Approximate outlay in the official year 1887-88	Proposed expenditure in the year 1888-89
Major Original Works				
Purchase of Honorary Surgeon Well's bungalow with outhouses Rs 2500 and that of Farrier Sergeant Rs 1510 at Muthagherry Remount Depot Hosur	4010	2500	1610	"
Minor Works				
Adding a linen room and and verandah to the Hospital at the Remount Depot	216	144	72	"
Constructing a well at site of the new camping ground at Jalarpet	655	48	607	"
Improvements to the Hay shed attached to the farmstable at the Remount Depot	1260	400	860	"
Improvements to Mr. Maddocks quarters and outhouses at Muddagherry	550	"	550	"
Sinking a well near Sick lines Remount Depot Muddagherry	2360	"	2360	"
Sinking a well in Stud lines Remount Depot Muddagherry	1767	"	1767	"
Constructing 6 Water troughs in the Remount Depôt Muddagherry	432	"	432	"
Unforeseen Works	"	"	"	500
Total Minor Works	7240	592	6648	500
Repairs	"	5606	5000	5500

V. A. Calicut
23d September 1887.

A. Mackenzie
Executive Engineer

Circle. Imperial Mili

Budget Estima of Revenue to be Colle
by P.W. Department for 1888-89

59
31-82

Particulars	Amount	Remarks
Imperial Military		
N[illegible] Division		
B ldings	270	
	50	
Rs.	320	

2989

[illegible] th Circle —

— Detail of [illegible] Estimate of [illegible]eneral Works for 1888-89 —

Imperial Military Works —

60
81-32

Heads of Classification —	Executive Division —	Locality	Item No —	Projects and Works —	Amount of Estimate	— Outlay — Actual to end of 1886-87	Probable during 1887-88	— Grant for 1888-89 — Works in Progress	Works not Com[illegible]	Total —	Remarks and References —
				Imperial Military — [illegible] Works —							60 81-32
Accommodation for Troops —	Presidency	Bangalore	1	North S[illegible] [illegible]tal. Quarters for an A[illegible]	4773 —	"	"	"	4773	4773.	(1) G. O No 938 W dated 5th April 1882, Item No 20 Class C. Works Budget of 1887-88 —
			2.	North Si[illegible] Hospital [illegible] Senior M[illegible] —	5300	"	"	"	5300	5300.	(2) G. O No 3385 W dated 24 November 1883 Item No 19. Class C Works Budget of 1887-88 — .
			3	R. H. A. [illegible] [illegible] Spec[illegible]	3700.	"	"	"	3700	3700.	(3) Item No 10 in the Schedule of requirements for 1888-89
			[illegible]	R. H. A. M[illegible]	3100 —	"	"	"	3100.	3100 —	(4) Item No 11 in the schedule of requirements for 1888-89
			5	[illegible]	30990 —	"	"	"	30990.	30990.	(5) G. O No 1302 W dated 25th May 1886. The sum of Rs 10,000 appropriated in the Budget of 1887-88 was re-sumed in G. O No 1692 W dated 28th June 1887 —
			[illegible]	[illegible]tua[illegible] [illegible] She[illegible] for the	4900	"	"	"	4900	4900 =	(6) Rs 3000 have been appropriated for 1887-88 but probable outlay for the year Cannot be state[illegible] for want of sanctio[illegible] to the revised Estima[illegible]
									C/f ₹	52763	

th Circle —

— Detail of [illegible] Estimate of [illegible]ral Works for 1888-89 — Imperial Military Works —

Head of Classification	Executive Division	Locality	Item No.	Project and Works	Amount of Estimate	Outlay — Actual to end of 1886-87	Outlay — Probable during 1887-88	Grants for 1888-89 — Works in Progress	Grants for 1888-89 — Works not commenced	Grants for 1888-89 — Total	Remarks and References
								D.O.		52763	61 81-82
		Bangalore	7.	R.A. Constructing Quarters for school master and school mistress	10240	"	"	"	10240.	10240.	G.O. No 2382 W dated 20th September 1886. Item No 17 Class C Works Budget of 1887-88
		Madras Perambur	8.	Perambur N.I. Lines. Constructing 2 male and 2 female Latrines	3000	"	"	"	3000	3000.	(8) Item No 40 in the schedule of requirements for 1888-89
		Fort St George.	9.	Fort St George. Converting R.A. Serjeants Mess and adjacent Rooms into Latrine and Lavatory in connection with Conversion of A Block Family Quarters into Singlemen's Quarters.	3820	"	"	Will be separately applied for "	3820	3820.	(9). An Estimate of Rs 3820 has been submitted through the Military department for sanction. Since sanctioned in G.O. No 2685 W d/12.10.87.
			10	Fort St George. Converting the Surgeon Generals Office into Barracks for 60 Singlemen in connection with Conversion of A Block Family Quarters into Singlemen's Quarters	5500	"	"	—Do— "	5500	5500.	(10) An Estimate of Rs 5500 has been submitted through the Military department for sanction
		Madras	11.	Constructing Coach houses and stables on the Esplanade in front of Body Guard Lines for use of Officers in Fort St George	15860	"	"	"	15860	15860.	(11) Item No 15 Class C works Budget of 1887-88 The Estimate is not yet sanctioned Vide G.O. No 481 W d/24.2.88
	Chingleput	Mount	12.	Troops Lines. Raising the main walls and reconstructing the roofing &c of the East and West Harness rooms.	4200	Copd "	"	"	4200	4200	(12) G.O. No 3137 W dated 17 December 1887
				Copd						195,383	

th Circle—

Detail of the Estimate of Original Works for 1888-89

Imperial Military Works—

60/31-32

Heads of Classification	Executive Division	Locality	Item No.	Projects and Works	Amount of Estimate	Outlay — Actual to end of 1886-87	Outlay — Probable during 1887-88	Grant for 1888-89 — Works in Progress	Grant for 1888-89 — Works not commenced	Total	Remarks and References
								Bt over		195383	62/31-32
		Mount	13	Constructing a Collar makers and Wheeler's shops for the 2/1st Brigade R. A.	5660	Clap "	"	"	5660	5660	(13) G.O. No. 2414 W/ 3.11.84
			14	Proof Range Constructing a wooden shed.	2820	Clap "	"	"	2820	2820	(14). G.O. No. 3047 W. dated 13 December 1884
		Pallaveram	15	N. I. Regiment. Constructing an armourers shop.	2880	Clap "	"	"	2880	2880	(15) G.O. No. 3149 W. dated 22-12-84—
		Mount	16	Converting the disused Gun shed into a Coffee shop, Recreation room and Library—	2520	[illegible] "	"	"	2520	2520	G.O. No. 1234 W dated 28 May 1885—
	Presidency	Fort St George	17.	Military Prison. Constructing two solitary Cells.	2800	"	"	"	2800	2800	(17) Estimate is being checked in the Executive Engineer's Office.
Ordnance	Presidency	Madras	18.	Ordnance department Coal store Godown. Constructing—					15000	15000	(18). Rs 9000 are appropriated for 1887-88, but the probable outlay for that year cannot be stated for want of sanction to the Estimate The Estimate under preparation
							C/f		—	227063	

— Detail of ... Estimate of Original Works for 1888-89 —

Imperial Military Works —

60/31-32

Head of Classification —	Executive Division —	Locality	Item No. —	Projects and Works —	Amount of Estimate	Outlay — Actual to end of 1886-87.	Outlay — Probable during 1887-88.	Grants for 1888-89 — Works in Progress	Grants for 1888-89 — Works not Commen...	Total —	Remarks and References —
								B.F. —		227063.	63/31-32
			19.	Ordnance Lines Providing Sun shades to exposed doors and windows —	4160	"	"	"	4160	4160.	(19) G.O. No. 2248 dated 22-8-87 —
			20	St. Georges Magazine. Rendering bomb proof of —	17000	"	"	"	17000	17000.	(20) Rs 17000 are appropriated for 1887-88 but probable outlay for that year — Cannot be stated for want of sanction to the Estimate — submitted through the Military department.
		Madras.	21.	Camp Equipage depôt. Constructing a new shed.	6935 —	"	"	"	6935	6935.	(21) Item No. 61 Class C works Budget of 1887-88. The Estimate has been sanctioned in G.O. No. 2558 W dated 27-9-87
			22	Gun Carriage Factory. Constructing Extra accommodation as store rooms.	6230 —	"	"	" —	6230 —	6230.	(22) Item No. 45 Class C works Budget of 1887-88 The Estimate has been submitted to Military Authorities —
		Chingleput Pallavaram	23	N.I. Regiment Constructing Powder Magazine.	4900	"	"	"	4900	4900	G.O. No. 334 W dated 8-2-86 —
								C/F		266288	

th Circle —

Detail of the Estimate of Original Works for 1888-89 — Imperial Military Works —

60
31-82

Heads of Classification	Executive Division	Locality	Item No.	Project and Works	Amount of Estimate	Outlay — Actual to end of 1886-87	Outlay — Probable during 1887-88	Grant for 1888-89 — Works in Progress	Grant for 1888-89 — Works not Commenced	Total	Remarks and References
									Brought over	266288	64 31-32
Commissariat	Presidency	Bangalore	24	Bangalore Transport Department. Constructing Conductors Quarters for near Commissariat Cattle Lines —	5800 —	"	"	"	5800	5800	G. O. No. 992 W. d/6. 6-86. Item No. 47 of Class C works Budget of 1887-88 —
			25	Constructing Station Butchers Quarters —	3840	"	" Provided in the current year	"	3840	3840	(25) Estimate has been submitted through the Military departments for sanction.
		Madras	26	Perambur. Commissariat Transport Depôt. Constructing sheds for Bullocks, Carts &c —	41250	"	"	"	15000	15000	(26) Item No. 50 Class C works Budget of 1887-88 Estimate has been returned to the Executive Engineer for Certain information —
		Madras	27	Perambur. Commissariat depôt Constructing Conductors Quarters —	4000	"	"	"	4000	4000	(27) Item No. 60 in the schedule of requirements for 1888-89.
		Bangalore	28	R. H. A. Grass Cutters Lines. Constructing a drain from the — for preventing the fouling of adjacent Nullah —	2846	"	"	" —	2846	2846	(28). Executive Engineer Presidency Division has forwarded the Estimate to the Military authorities
		Madras	29	Royapuram N. I. Lines. Providing means for flushing drains with seven wells water.	4300	"	"	"	4300	4300	(29) G. O. No. 1394 W. dated 4-6-84. Item 40 of class C Works Budget of 1887-88 —
								C/fd —		302074	

[illegible] Circle —

Detail of [illegible] Estimate of [illegible]general Works for 1888-89 — Imperial Military Works —

66
31-32

Heads of Classification —	Executive Division —	Locality	Item No.	Project and Works —	Amount of Estimate	Outlay —		Grants for 1888-89 —			Remarks and References —
						Actual to end of 1886-87	Probable during 1887-88	Works in Progress	Works not commenced	Total —	
Fortification	Presidency	Fort St. George	30	Fort St. George. Remodelling Drainage	12000 —	"	"	" S 8	Over 12000 —	302074 12000	(30) Item No. 5 in the schedule of requirements for 1888-89 — 85 31-32
			31 —	Fort St. George North Gate — Constructing Draw Bridge —	2680 —	"	"	"	2680	2680	(31). Item No. 58 Class C. works Budget of 1887-88.
			32	Fort St. George. Demolition of Wallajah Ravellin and two lunettes.	7434	"	"	"	7434	7434	(32) Item No. 57 of Class C. works Budget of 1887-88 G.O. No. 734 W dated 14 July 1885 — The work is in abeyance —
			33	Fort St. George Demolition of Out works. Clearance of Ditch and Completion of walls —	33997 —	"	"	"	10,000	10,000	(33) Estimate will be submitted.
	Northern	Vellore	34	Vellore Fort Constructing Draw-Bridge and Gate —	6450 —	"	"	"	3000	3000	(34) G.O. No. 528 W dated 7.3.85. Rs 3588 are appropriated for 1887-88 but the probable outlay for that year cannot be stated as it is under reference to the Military Authorities with a view to the Estimate being revised

Total Major works 337188

th Circle —

Detail of the Estimate of Original Works for 1888-89 — Imperial Military Works

60
81-89

Head of Service	Executive Division	Locality	Item No.	Project and Works	Amount of Estimate	Outlay — Actual to end of 1886-87	Outlay — Probable during 1887-88	Grant for 1888-89 — Works in Progress	Grant for 1888-89 — Works not commenced	Total	Remarks and References
				Military Minor Original Works							
				Presidency Division.							
				Chingleput Division —							
				North Arcot Division —						170	
				works				399			
				Military Works							
				Presidency Division.							
				Chingleput Division —				10			
				North Arcot Division —				3000			
				South Arcot Division —				5100			

14 October 1887 —

K. Soondararam
Clerk

Maj. R.E.,
Superintending Engineer
5th Circle

the Circle —

P.W.C. N° 83

From,
The Superintending Engr
- 5th Circle

To,
The Chief En

Fifth Circle — Statement showing probable expenditure on Works during 1887–88 — Imperial Military —

Division —	— Names of Works —	Amount of Estimate	Expenditure to end of 1886–87	Current year's grant 1887–88	Probable Expenditure in 1887–88	
	— Imperial Military — — Major Original Works —					
Presidency —	Bangalore Public Buildings for a Regiment of Native Infantry —	21636.	15000	6636.	6636.	
	Fort St. George Converting a Racquet Court into a Covered Gymnasium —	11890	2320	9570	9570.	
	Bangalore. Pioneer Regiment. Store Rooms and Workshops.	4900	"	3000 —	" —	Rs 3000 surrendered in the Statement of Savings and remands submitted with Letter No 3543 dated 3–12.87 87/31-82
	Fort St. George. Adapting existing Magazine for Storage of Powder for Fort Armament —	17000	" —	17000 —	"	Rs 17000 — Do — Do —
	Madras. Ordnance depot. Coal Store —	"	"	9000 —	" —	Rs 9000 — Do — Do —

Divisions	Names of Works	Amount of Estimate	Expenditure to end of 1896-97	Current year's grant 1897-98	Probable expenditure in 1897-98	
Presidency	Fort St George. Converting A Block Family Quarters into Singlemen's Barracks.	19697	5955	7445	13402	An additional grant of Rs 6017 has been applied for in the Statement of Savings and Demands
	Bangalore. Parade Barracks. Additions to Wash Houses	12500	10720	500	1017	An additional grant of Rs 517 has been applied for in the Statement of Savings and Demands
	Bangalore. Military Prison. Additions to	8325	7478	847	847	
	Madras. Gun Carriage Factory. New Wheeler's Shops	7340	6712	658	658	
	Bangalore European Station Butcher Constructing Quarters for	3860	"	3583	3583	Rs 517 have been applied for in the Statement of Savings & Demands
Chingleput	St Thomas Mount. Removing and Reconstructing 11 Cook houses attached to 1/1st & 2/1st [illegible]	2970	"	2970	2970	
	Mount. Constructing 6 Blocks of Stables for 2 Field Batteries of R.A.	21942	22914	952	952	
	Mount Wellington Barracks Construct					
	Mount Ordnance Magazine Alterations to Racks	2505	"	2505	2505	
	Minor Original Works					
	Presidency Division. Lump sum			8338	23486	Funds have been applied for in the Statement of Savings and Demands
	Madras. Commissary General's Office Fixing Corrugated Iron roof over the passage between the Hospital Godowns No 1 & 2	1520		1520	1520	
	Bangalore. British Cavalry Barracks Alterations to fit them for use of 21st Hussars	1308		1308	1308	
	Chingleput	"	"	3641 2059	3641 2059	An additional grant of Rs 1225 applied in do do.
	North Arcot	"	"	263	263	
	South Arcot	"	"	"	"	
	Repairs					
	Presidency Division.	"	"	10,000	× 10,000	× An application for an additional grant of Rs 30000 will be submitted later on in the year as per Chief Engineer's Memo No 3017 C of 7-9-97 has been applied for in the Statement of Savings and Demands.
	Chingleput	"	"	32000	⊗ 32000	
	North Arcot	"	"	3000	3000	⊗ do Rs 4000 do do.
	South Arcot	"	"	174	174	

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31-32

H. Kelly Wellesley Robert Col. R.E.
Superintending Engineer
5th Circle

Chepauk
13th December 1897

K. Soondararow
Clk

P.W.C. No. 102

From,

The Superintending
5th Circle

To,

The Chief Engin
P.W. Departme

Dated 13th } December
Received 15th }

15 DEC 87

No. 3877.

Imperial Milita
Works.

Statement show
the probable expendi
on Works during
1887-88—

Imperial
Military

69
81-82

VI Circle
Part II

Detail of Budget Estimate for Repairs for the year 1888-89.

Head of classification	Division	Locality	Items	Estimate 1888-89		Estimate 1887-88	
				Amount	Total	Amount	Total
			Imperial - Ordinary Military				
	Trichinopoly	Trichinopoly	Accommodation for Troops	3800		3800	
			Military Roads				
	Do.	Do.	Cantonment Roads	1200	5000	1200	5000
	Tanjore	Kumbaconum	Hire of quarters for accommodation of medical Subordinates	400	400	400	400
	Madura	Madura	House rent to be paid to a Sergt. Instructor. S. I. Ry Volunteer Rifle Corps	240	240	240	240
	Tinnevelly	Tuticorin	do do	250	250	250	250
			Total Rupees	—	5890	—	5890

16th September 1887
D/21st

Lt Col R.E.
Supt. Engineer. Circle.

Imperial

Military works

Sixth Circle

Part I

Detail of the Budget Estimate for Original Works for the year 1888-89.

Head of classi-fication	Executive Division	Locality	Item No	Projects & Works	Amount of Estimate	Outlay		Grant 1887-88			Item No	Remarks And References
						Actual to end of 1886-87	Probable during 1887-88	Works in progress	Works not Commenced	Total		
Accommodation for troops Buildings for Native troops	Trichinopoly	Trichinopoly	1	Imperial Ordinary Military Original Works Workshops for Pioneer regiment	"	"	"	"	8000	8000	1	The Ex. Engr has been directed to send in Estimate soon. Item 43 Class B Works-Budget of 1887-88
				Total						8000		

Supy. Engr's Office, 6th Circle }
16th September 1887 }

D/ 21st

Lt Col RE
Supt Engineer. 6 Circle.

From
The Supt Engineer
6 Circle

To
The Chief Engineer, D.P.W.

No. 1149 T.T

Dated 16th } September /87
Despd. 21st }

6th Circle

Imperial - Military

Part II

Budget Estimate for Repairs
for the year 1888-89.

From
The Supg Engine
6 Circl

To

The Chief Engineer
C. P. W.

No. 1149 T.I

Dated 16th }
Despd 21st } September

6th Circle

Imperial Ordinary

Military

Part I

Budget Estimate
of Original Works
for the year 1888-89

71
31-32

HEADING.

ACCOUNTS.

Budget Estimate.

It is requested that the above heading, with number and date of this communication, may be quoted in any subsequent correspondence on the subject.

No. 2309-M.-W.

GOVERNMENT OF INDIA.

MILITARY DEPARTMENT.

Extract from the Proceedings of the Government of India in the Military Department,—under date Simla, the 3rd November 1887.

RESOLUTION.—The following provisional distribution of the Imperial grant for Military Works for 1888-89 is hereby notified:—

	Rs.
Central India	1,50,000
Hyderabad	3,00,000
Rajputana	1,40,000
Simla Imperial Circle	2,000
Military Works Department	59,00,000
Central Provinces	1,50,000
Lower Burma	5,00,000
Assam	3,00,000
Bengal	36,000
North-Western Provinces and Oudh	67,000
Punjab	3,50,000
Madras	5,25,000
Bombay	11,00,000
Ordnance Works	2,50,000
Marine Works	80,000
Total ...	98,50,000
Leaving for reserve with the Government of India ...	1,50,000
	1,00,00,000

2. The above allotments include provision for any expenditure that may be incurred in England on stores for works classified as Military.

3. The distribution of the grants for Ordnance and Marine will be made by the Director-General of Ordnance and the Director of Indian Marine respectively. These officers will communicate to the Local Governments and Administrations concerned the works which they desire to have undertaken during 1888-89, and the amounts available for each work.

4. The Preliminary Budget Estimates should be prepared for the amounts now provisionally sanctioned, and should be submitted so as to reach the Government of India punctually by the 15th January 1888.

5. Orders as regards the grants required for Special Defence Works will issue hereafter.

P.W.C. No. 9159

ORDER.—Ordered, that a copy of the foregoing Resolution be forwarded to the Local Governments, &c., noted in the margin, for information and guidance.

The Governments of Madras, Bombay, Bengal, North-Western Provinces and Oudh, and the Punjab, in the Public Works Department.
The Chief Commissioners, Central Provinces, Burma, and Assam.
The Resident at Hyderabad.
The Agents to the Governor-General, Central India and Rajputana.
The Inspector-General of Military Works.
The Director-General of Ordnance in India.
The Director of the Indian Marine.
The Superintendent of Works, Simla Imperial Circle.

Ordered also, that a copy be forwarded to the Quartermaster-General in India, the Accountant-General, Public Works Department, and the Accountant-General, Military Department, for information.

E. J. Mellen

Offg. Secy. to the Govt. of India.

To
The Secretary to the Government of Madras,
Public Works Department.

Rd 14.11.87

No. 4170 C of 18-11-87

4067 C of 18-11-87

No. 1922 W d/ 18-7-87
" 2131 W d/ 10-8-87
" 2453 W d/ 12-9-87
" 3274 W d/ 1-12-87
" 3352-53 W d/ 7-12-87

G. C. Press, Simla.—No. 2380 M. D.—4-11-87.—470.

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1 p 3

QUARTER MASTER GENERAL'S OFFICE,
Head Quarters,
Ootacamund, 28th Nov 1887.

No. 4644. A.

From
Brigr. Genl, E. Faunce,
~~The~~ QUARTER MASTER GENERAL.

To
THE SECRETARY TO GOVERNMENT,
Public Works ~~Military~~ DEPARTMENT.

SIR,

In acknowledging the receipt of your letter No: 4170 C, dated 18th instant, intimating the amount of the grant made by the Government of India to this Presidency for Imperial Military works in the coming year and submitting proposals* for the distribution of the small allotment available out of it for Major Works, I am desired to express the

regret

* statement herewith returned

regret of the Commander-in-Chief that he finds himself under the necessity of remarking, with disappointment, on the inadequacy of the grant made, as compared with the wants of the Presidency, which have been repeatedly urged by his predecessors and which he feels sure are realized by Government.

2. In regard to the statement of Major Works proposed to be carried out in 1888/89 I am to offer the following remarks.

Item 3. As the Government of India has recently+ declined to sanction the provision of any storage accommodation to a Pioneer Regiment,

+ P.W. No. 2457W d/ 5th Novr '87.

additional

additional to that which is allowed to a Regiment of Native Infantry, the grant for extra public buildings to the Pioneer Regiment at Bangalore, might be reduced from Rs. 12000 to Rs. 5000 - so that in the coming year only the additions to the places of arms, of the necessity for which there can be no question, may be provided for, leaving the matter of extra storage accommodation, regarding which Government will be addressed later, to stand over for the present.

Item 7. As owing to the detention in Burma of a Regiment of Madras Cavalry a Regiment

will

will not be placed at Bangalore for the present, the funds proposed to be allotted for providing a Regiment there with public buildings may be utilized otherwise.

Item 8 This being distinctly an Ordnance Work should not find a place in the statement.

The amount set free under the suggestions above put forward, is Rs. 28935, which His Excellency would propose to redistribute as follows:-

I. New Barracks at Poonamallee Rs. 19671. The urgency of this work has already been suggested to Government in the Military Department+

+ Q.M.G's No: 4574 A of 23rd Novr 87.

and

and it is presumed that about Rs. 20,000 should be set aside for it to secure its rapid prosecution.

II. Completing Defences of the Fort at Cannanore Rs. 3064*- Work in connection with this Fort has been spasmodically dealt with of late years - and it seems desirable that in the coming year, the funds requisite to complete it, should be provided.

*Estimate submitted with Q.M.G's No. 3243 Bdy 11th Novr 87 to Secy. to Govt. M. D.

III. Sheds for transport animals at Calicut Rs. 3310/- The re-distribution of troops in the Western Coast has increased the allotment of transport to Calicut, and it is very desirable

that

that cover should be provided for the animals at an early date.

IV. New Latrines, Native Infantry Lines, Perambur, Madras, Rs 3000/. These are very much wanted on sanitary grounds.

It will be observed that in these proposals, works in connection with increased accommodation for Troops in Fort Saint George are not mentioned, and it may be explained that they are not so, because the Commander in Chief hopes there may be no question in regard to their being provided for

Connection certain buildings in the Fort [illegible]

out

out of a special grant to be obtained from the Government of India.

I have the honor to be,
Sir,
Your obedt. Servant,

D. J. S. McLeod Lieut Col,
Dy. Quarter Master Genl.
&c.

P.W.C. No. 9747

~~Military~~ (1887) Department.

No.

From

THE QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,

P.W. ~~MILITARY~~ DEPARTMENT.

1

No. 4644.A.

Dated 28th } Novr.
Received 30 }

E.1

No. 4401 C of 1-12-87

ENCLOSURES.

Re. statement of proposed allotment of grants for major works in 1888/89 & proposing certain redistribution of allotments.

B

ORDNANCE DEPARTMENT 77/31-32

No. 62 C
Tour

FROM

THE DIRECTOR-GENERAL OF ORDNANCE, in India

TO

THE Secretary to the Government of Madras
Public Works Department
Madras

~~Dated Simla~~ Madras 16 Decr. 1887

Sir,

With reference to your No. $\frac{\text{C.}}{4674}$ of the 15th December, I have the honor to state that I telegraphed to the Government of India, Military Department, Calcutta, on the 5th idem, enquiring whether the grant of Rs 2,50,000 for Ordnance works for 1888/89, sanctioned in their No. 2309 M.W. of the 3rd November, includes the cost of certain special works authorized for the Rawal Pindi and Quetta Arsenals; but no reply has yet been received.—

2— I wired a reminder on the 15 Instant and as soon as a reply comes to hand, I shall answer the queries contained in your Nos. 4171 C. & 4401 C. of the 18 Novr. & 1 Decr., 1887, respectively; but should it be decided that the grant includes the cost of the special works in question, a very small portion of the total grant would remain

available

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31-32

available for ordinary works, such
as those mentioned in your
communications cited above.—

I have the honor to be
Sir
Your most obed^t. serv^t.

J. T. Lewis Colonel
Director Gen^l. of Ordnance
in India

P.W.C No. 10341

R 17.12.87

B

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PUBLIC WORKS DEPARTMENT.

No. 31 B

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 6th January /88

Records following papers

READ the following

From the Suptg. Engineer I Circle. H. E. No: 251 G. L. d/ 10th October 1887.
——— Do ——— II Circle. H. E. No: — d/ 14th October 1887
——— Do ——— III Circle. H. E. No: — d/ 1st October 1887
——— Do ——— IV Circle. H. E. No: 395 E. W. d/ 2nd October 1887.
——— Do ——— V Circle. H. E. No: 2989 d/ 24th October 1887
——— Do ——— Do ——— H. E. No: 3877 d/ 13th December 1887
——— Do ——— VI Circle. H. E. No: 1149 T. J. d/ 16th September 1887
From the Govt. of India Military Department. H. E. No: 2309 M. W. d/ 3rd November 1887.
From the Quartermaster General, Madras. H. E. No: 4644 A d/ 28th November 1887.
From the Director General of Ordnance in India. H. E. No: 62 E. d/ 16th December 1887.

In the resolution above recorded the Govt. of India have provisionally assigned Rs. 5,25,000 as the grant for Military works of this Presidency for 1888-89. The distribution of the grant under departmental heads is as follows:—

Works	Rs. 4,20,600
Establishment	" 98,100
Tools and Plant	" 6,300
Total	Rs. 5,25,000

2. Of the sum of Rs. 4,20,600 available for works, Rs 3,00,000 for repairs, Rs. 15,260 for incomplete major works of 1887-88 and Rs 20,000 for minor works have been set aside; and the

balance

balance Rs. 85,340 has been distributed to major works with the approval of His Excellency the Commander-in-Chief. The amounts set aside for incomplete major works and minor works and repairs will, as usual, be held at the disposal of Govt. and will be appropriated early next year on receipt of detailed proposals from Supdg. Engineers. After providing for incomplete minor works of the current year and for such of the minor new works as may be considered urgent, the balance of the minor works grant will be placed at the disposal of Officers commanding Divisions and Districts.

3. The Supdg. Engineers concerned will submit with the least possible delay plans and estimates for the unsanctioned works for which funds have been provided in the budget.

4. With reference to para 3 of the resolution of the Govt. of India above recorded a list of the marginally noted Ordnance Works proposed by H. E. the Commander-in-Chief for execution during 1888-89 was forwarded to the Director General of Ordnance with request ~~requesting~~ that he would select ~~him to inform~~ the works ~~which he desires~~ to be undertaken during the year and allot funds for them ~~amounts available for each of them~~. As that officer has not yet communicated the available grant and as the ~~budget~~ ~~estimate~~

estimate should ~~be submitted so as to~~ reach the Govt. of India before the 15th proximo ~~due date~~, the budget ~~estimate~~ for 1888-89 has been prepared for the sum of Rs. 5,25,000 sanctioned by the Govt. of India for other than Ordnance Works. On receipt of a reply from the Director General of Ordnance the allotments made by him will be communicated to the Govt. of India and ~~the~~ included in the final issue of the budget ~~will be prepared inclusive of those allotments~~.

(1) Constg. six double quarters for the staff sergeants attached to the Ordnance Depôt Bellary
(2) Magazines, Fort St. George
(3) Converting the old regimental hospital now used as a Govt. school into quarters for 9 warrant officers, Ordnance Depôt, Bellary
(4) Extra accommodation as store room in the Gun Carriage Factory, Madras
(5) Providing sun shades to the exposed doors and windows in the Ordnance Lines Madras
(6) Shed for the Camp Equipage, Madras

5. The attention of the Govt. of India will be drawn to the remarks in the concluding para of the Quarter Master General's letter above recorded, with a request that a sum of Rs 5,680 being the balance of the estimate ~~may be provided for expenditure during 1888-89 on the~~ may be provided for conversion of certain buildings in ~~the~~ Fort St. George into barracks for 60 single men ~~which is~~ a work which though of considerable importance cannot be provided for out of the limited sum assigned for Military Works in this Presidency ~~rendered necessary by the augmentation of British Troops in this Presidency~~.

6. The items in the budget for which estimates have not yet been sanctioned have been entered at the special request of His Excellency the Commander-in-Chief and as it is hoped that the estimates for them will shortly be ready, the Govt. of India will

be

be requested to allow the amo s provided for them to stand.

7. With these remarks the preliminary issue of the Military Works budget estimate for 1888-89 will be printed and circulated to the officers concerned for information and guidance and four copies forwarded to the Govt. of India.

H. E. No. 52 Wd/ 6th January

The Hon. M.

Special

Forwarded

Jole
21/12/87

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9 W
18/1/88

To
Supdg. Engineers
The Examiner of P. W. Acts
" Military Department
" Financial Department
" Director General of Ordnance

5.1.88

be requested to allow the amo[illegible] pro
vided for them to stand.

7. With these remarks the prelim
mary issue of the Military Works bud
estimate for 1888-89 will be printed an
circulated to the officers concerned for
information and guidance and fou
copies forwarded to the Govt. of India

H. E. No. 32 W of 6th Jan

Forwarded.

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21/12/87

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Govt. of (188~~7~~8) Madr

PUBLIC WORKS.

Dated Special 21/12/87

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Mily works Budget
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MADRAS RECORD OFFICE.
Government Records.

________ Department.

E. M. C.

Dated 6. January 1878.

No. 31-32

Back Nos. ________

Diary Date ________