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P - W - D.

GO. 2694 · W.
Dt. 13 - 10 - 1887.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers :—

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 20th August 1887, No. 2946 A.

As early in June no plan and estimate for the new coal store for the Ordnance Department at Madras, which had been provided for in the current year's budget, had reached this office, inquiries regarding them were made. These elicited the fact that the preparation of the plan, &c., had been delayed because no site for the building had been selected up to date, the delay in this being accounted for by the fact that the Superintending Engineer, V Circle, apparently considered that it was incumbent on the Inspector-General of Ordnance to have a site selected and to inform him of its position, while the Inspector-General of Ordnance understood that the Superintending Engineer was moving in the matter, inasmuch as, presumably under his orders, the Executive Engineer, in November last, had communicated with the Inspector-General of Ordnance about a site and mentioned one which subsequently the latter officer informed the Superintending Engineer was unsuitable.

2. As delays of this nature tend to retard execution of works at the proper time, and consequently to upset calculations in connection with expenditure under budget allotments, the Commander-in-Chief considers that measures should be taken to prevent them, and therefore desires me to submit, for your consideration, his opinion that, having distinctly been ordered to send in plans and estimates for this work, amongst others proposed for execution in the current year,[*] it was incumbent on the Superintending Engineer, V Circle, to have taken definite steps towards the essential preliminary of having a site fixed, and to have made a report of the fact, should he have found that, owing to circumstances beyond his control, in connection with this preliminary, the submission in due time of the plans and estimates, for which he was responsible, would be delayed.

No. 472 D.

Referred, in continuation of No. 432 D., dated 17th August 1887, to the Superintending Engineer, V Circle, for early report.

Ootacamund,
23rd August 1887.

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

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[*] *Vide* proceedings of Government, No. 2497 W., dated 25th September 1886.

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Bangalore, 29th August 1887, No. 2226.

In returning your endorsement, No. 472 D., dated 23rd August 1887, I have the honor to state that the preparation of the plan and estimate for the proposed coal store has been delayed not only on account of the site not having been selected, but also for want of information as to the quantity of coal the proposed building would be required to hold. This information, called for from the Military Department on the 22nd January 1887, was received only on the 26th July 1887.

2. I should also mention that some correspondence which took place between the Inspector-General of Ordnance and the Superintending Engineer as to the site and size of the proposed coal store ended with the Superintending Engineer informing the Inspector-General of Ordnance, on the 9th February 1887, that the "Public Works Department will make no objection to use of the Vyasurpady powder magazine as the Ordnance coal shed if it is thought by the Inspector-General of Ordnance to be suitable." This left the matter in the position as if the proposal for a new coal store was likely to be departed from, and it was not until the 26th July 1887, or after the lapse of more than five months, that the intimation was received from the Military Department that "the Ordnance Department state that the Vyasurpady magazine is too inconveniently situated to be of use."

3. It will be seen from the above that the Public Works Department is in no way to blame for the delay complained of by the Military Department in this matter.

No. 520 D.

Copy of the above forwarded to the Quartermaster-General, with reference to his letter, No. 2946 A, dated 20th August 1887.

2. It will be seen from the Superintending Engineer's letter that the Public Works Department is not responsible for the delay complained of.

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

2nd September 1887.

From Colonel H. McLEOD, R.A., Inspector-General of Ordnance, to the Quartermaster-General, Ootacamund, dated Fort St. George, 10th September 1887, No. O/8215.

Adverting to your No. 3145 A., dated 6th instant, forwarding copy of a letter from the Superintending Engineer, V Circle, to the Secretary to Government, Public Works Department, through Eastern District, I have the honor to inform you that the letter, stated by the Superintending Engineer to bear date 9th February 1887, containing a proposal to the Inspector-General of Ordnance to the effect that the Public Works Department would have no objection to the utilisation of the Vyasurpady magazine as a coal store, does not exist in this office records, nor indeed is there any letter at any time containing such a proposal.

No. 3258 A.

True copy forwarded, for information, with reference to memorandum, No. 520 D., dated 2nd instant, from the Secretary to Government, Public Works Department.

(By Order.)

(Signed) E. FAUNCE, Brigdr.-Genl.,
Quartermaster-General.

Ootacamund,
13th September 1887.

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selected, but also for want of information as to the quantity of coal the proposed building would be required to hold." This information seems to have been* called for from the Military Department on the 22nd January 1887, or four months after the orders of Government, of September 1886, quoted above. But† previous to this, in November last, the Executive Engineer would seem to have been in communication with the Inspector-General of Ordnance in regard to the site, though nothing definite was decided. There were also some telephone messages between the Superintending Engineer and the Inspector-General of Ordnance in February, which were subsequently lost sight of in the Inspector-General's office.

4. His Excellency the Commander-in-Chief considers that the responsibility for the delay rests with the Superintending Engineer, inasmuch as he failed to take definite steps towards the settlement of a site or to report to higher authority the delay which was taking place.

5. Matters were, no doubt, in the opinion of His Excellency the Governor in Council, retarded by the manner in which references were replied to or overlooked by the Inspector-General of Ordnance, but the Superintending Engineer, being responsible to Government for the preparation of the plans and estimates and the utilising of the budget grant, should not have allowed the subject to drift in the way he did.

6. The papers do not show whether the requisite preliminaries have even now been settled.

7. The Superintending Engineer will see that no further delay occurs.

(True Extract.)

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

To the Superintending Engineer, V Circle.
" Military Department.

Exd. E. Fernandez.
Spare Copies

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* *Vide* paragraph 1 of Superintending Engineer's letter, No. 2226, dated 29th August 1887.

† *Vide* paragraph 1 of Quartermaster-General's letter, No. 2946 A, dated 20th August 1887.

No. 578 D.

Copy forwarded to the Superintending Engineer, V Circle, with reference to his letter, No. 2226, dated 29th August 1887, for further inquiry and report.

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

19th September 1887.

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 21st September 1887, No. 2587 :—

With reference to your memorandum, No. 578, dated 19th September 1887, I have the honor to enclose a copy of the last three papers connected with the correspondence with the Inspector-General of Ordnance regarding site and size of the proposed coal store.

ENCLOSURES.

From Colonel W. H. BURTON, R.E., Superintending Engineer, V Circle, to the Inspector-General of Ordnance, dated 8th February 1887, No. 5541.

With reference to your letter, No. O/15985, dated 29th January 1887, I have the honor to request you to hasten the information called for concerning site and capacity of proposed coal shed.

2. The Quartermaster-General is calling on Public Works Department for plans and estimates, but no progress can be made until site and size of shed are known.

Telephone message from the Inspector-General of Ordnance, to the Superintending Engineer, V Circle.

His letter No. 5541, dated 8th.

I thought it was arranged that the Vyasurpady magazine should be utilised as a coal shed.

Reply by telephone to Inspector-General of Ordnance.

Public Works Department will make no objection to use of the Vyasurpady powder magazine as the Ordnance coal shed if it is thought by Inspector-General of Ordnance to be suitable.

(Intlled.) W. H. B.
Suptg. Engr., V Circle.

8th February 1887.

ORDER—dated 13th October 1887, No. 2694 W., Public Works.

The above correspondence relates to delay, brought to notice by His Excellency the Commander-in-Chief, in the preparation of plans and estimates for a coal store for the Ordnance Department at Madras.

2. The work was entered in the list of military requirements circulated with G.O., No. 2497 W., dated 25th September 1886, in which Superintending Engineers were instructed to "lose no time in submitting the necessary plans and estimates for the unsanctioned works included in the schedules." It was subsequently provided for in the budget estimate published with G.O., No. 1161 W., dated 28th April 1887, with the following remark entered against it: "Estimate is awaited."

3. The Superintending Engineer explains that the preparation of the plan and estimate for the work was delayed "not only on account of the site not having been

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1887) Madras.

PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

G.O., 13th Oct. 1887, No. 2694 W.

OCTOBER.

Coal Store for the Ordnance Department at Madras

Orders on correspondence relative to the delay in the submission of plans and estimates for a —.

FINAL ISSUE.

8

IMPERIAL.
MILITARY WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

MILITARY WORKS

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1887-88.

Chepâk,
28th April 1887.

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

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Details of the Budget-Estimate of Expenditure—

Part I.—Detail of Estimate for Original Works, Class A ... ... 4 & 5
Ditto ditto Class B ... ... 6 & 7

Appendix to above—

Appendix B.—List of Class C Works ... ... 8 to 15

REVENUE.

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

—	Budget-Estimate, 1887-88.	Revised Estimate, 1886-87.	Budget-Estimate, 1886-87.	Actuals, 1885-86.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	25,000	16,000	30,000	25,881
In Civil and Military Departments	...	...	...	...
Total ...	25,000	16,000	30,000	25,881

CHARGES.

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

—		Reference to Detailed Estimate.	Budget-Estimate, 1887-88.	Revised Estimate, 1886-87.	Budget-Estimate, 1886-87.	Actuals, 1885-86.
			Rs.	Rs.	Rs.	Rs.
Original Works.	In progress ...	...	41,060	1,85,200	2,08,035	1,85,232
	Not commenced.	...	1,01,540			
Repairs	Ordinary ...	...	3,00,000	3,17,700	3,10,465	1,73,187
	Special ...	...	...			
Establishment		...	1,03,000	1,17,500	1,20,700	83,263
Tools and Plant		...	4,400	5,000	5,200	3,563
Suspense Account		...	...	...	...	...
Total ...		...	5,50,000	6,25,400	6,44,400	4,45,245

6

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

—	Budget-Estimate, 1887-88. Original Works. In progress.	Not commenced.	Total.	Repairs.	Establishment.	Tools and Plant.	Suspense Account.	Barrack Department.	Total.	Revised Estimate, 1886-87.	Budget-Estimate, 1886-87.	Actuals, 1885-86.
Provision from Imperial Funds.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
In India ...	41,060	1,01,540	1,42,600	3,00,000	1,03,000	4,400	...	...	5,50,000	6,25,400	6,44,400	4,45,245
In England.	...	...	...	...	...	...	...	...	...	—2,000	...	— 236
Total ...	41,060	1,01,540	1,42,600	3,00,000	1,03,000	4,400	...	...	5,50,000	6,23,400	6,44,400	4,45,009
Provision from Contributions.												
In India ...	...	...	...	...	...	...	...	...	...	...	...	— 72
Grand Total.	41,060	1,01,540	1,42,600	3,00,000	1,03,000	4,400	...	...	5,50,000	6,23,400	6,44,400	4,45,081

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

—	Budget-Estimate, 1887-88. Original Works. In progress.	Not commenced.	Total.	Tools and Plant.	Suspense Account.	Total.	Revised Estimate, 1886-87.	Budget-Estimate, 1886-87.	Actuals, 1885-86.
							Rs.		Rs.
	...	...	...	...	...	...	2,000	...	236
Total ...	...	...	...	...	...	...	2,000	...	236

PART I.

DETAIL of the BUDGET-ESTIMATE for ORIGINAL WORKS for the YEAR 1887-88.

CLASS A WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1885-86.	Outlay. Probable during 1886-87.	Grant, 1887-88. Works in progress.	Grant, 1887-88. Works not commenced.	Grant, 1887-88. Total.	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY. Military. *Original Works.*								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	West Coast.	Malapuram ...	1	Barracks for a detachment of British Infantry to accommodate 50 additional men.	1,35,803	1,14,981	8,815	11,000	...	11,000	1	G.O., No. 2305 W., dated 13th September 1886; No. 560 W., dated 24th February 1887. Item No. 1, class A works, budget of 1886-87. Supplemental estimate for Rs. 38,940 forwarded to the Government of India for sanction.
Accommodation for Native troops.	Presidency.	Bangalore ...	2	Public buildings for a regiment of Native infantry.	21,636	...	15,000	6,636	...		2	G.O., No. 2952 W., dated 29th November 1884. Item No. 11, class B works, budget of 1886-87.
	Trichinopoly.	Trichinopoly.	3	Construction of stone drains required for new lines.	...	...	1,000	5,140	...	11,776	3	Estimate is awaited. Item No. 13, class B works, budget of 1886-87.
				Total ...	...	...	...	22,776	...	22,776		

IMPERIAL.
MILITARY WORKS.

MADRAS.

PART I—cont.

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

CLASS B WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1885-86.	Outlay. Probable during 1886-87.	Grant, 1887-88. Works in progress.	Grant, 1887-88. Works not commenced.	Grant, 1887-88. Total.	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY. Military. *Original Works.*								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Bellary ...	Bellary ...	1	Collar maker and wheeler's shop, Royal Artillery.	5,663	...	1,084	4,579	...		1	G.O., No. 914 W., dated 3rd April 1884. Item No. 3, class C works, budget of 1886-87.
	Nilgiri ...	Wellington ...	2	Quarters for three Apothecaries ...	...	...	...	...	16,000		2	Estimate is awaited.
	Do. ...	Do. ...	3	Quarters for a Barrack Sergeant ...	7,348	...	3,213	4,135	...		3	G.O., No. 1941 W., dated 21st August 1885.
	Presidency.	Fort St. George	4	Converting a racquet court into a covered gymnasium.	11,890	2,040	280	9,570	...		4	G.O., No. 1552 W., dated 20th June 1884. Item No. 17, class C works, budget of 1886-87.
	Chingleput.	St. Thomas' Mount.	5	Removing and reconstructing 11 cook houses attached to I/1st, and Q/1st, Royal Artillery.	2,970	...	...	...	2,970	37,254	5	G.O., No. 1111 W., dated 23rd April 1887.
Accommodation for Native troops.	Presidency.	Bangalore ...	6	Public buildings for a regiment of Native cavalry.	30,930	...	...	...	10,000		6	G.O., No. 1302 W., dated 25th May 1886. Item No. 36, class C works, budget of 1886-87.
	Do. ...	Do. ...	7	Store rooms and workshops for the Pioneer regiment.	4,740	...	...	...	3,000	13,000	7	G.O., No. 534 W., dated 24th February 1887. Item No. 35, class C works, budget of 1886-87.
(2) *Ordnance Works* ...	Bellary ...	Bellary ...	8	Twelve Staff Sergeants' quarters, Ordnance Department.	...	...	...	...	10,000		8	Estimate is awaited.
	Presidency.	Fort St. George.	9	Adapting the existing magazine for storage of powder for Fort armament.	...	...	...	...	17,000		9	Do. do.
	Do. ...	Madras ...	10	Coal store, Ordnance Department.	...	...	...	...	9,000	36,000	10	Do. do.
(3) *Fortifications* ...	North Arcot.	Vellore ...	11	Draw bridge and gate for the Fort	6,450	...	...	...	3,583	3,583	11	G.O., No. 528 W., dated 7th March 1885. Item No. 54, class C works, budget of 1886-87.
				Minor Works and Reserve ...	...	...	...	...	29,987	29,987		
				Total ...	...		...	18,284	1,01,540	1,19,824		
				Grand Total ...	...		...	...	...	1,42,600		

APPENDIX B.

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

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Amount applied for 1887-88.			Item No.	Remarks and References.
						Actual to end of 1885-86.	Probable during 1886-87.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY.								
				MILITARY.								
				Original Works.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Bellary ...	Bellary ...	1	Armourer's shop, 2nd Light Cavalry.	2,695	...	...	...	2,695		1	G.O., No 2266 W., dated 14th September 1881. Item No. 6, class C works, budget of 1886-87.
	Do. ...	Do. ...	2	A new gun-shed, Royal Artillery.	...	...	...	...	3,970		2	Estimate is awaited.
	Do. ...	Do. ...	3	Swimming-bath, British infantry.	7,644	...	...	...	7,644		3	G.O., No. 2434 W., dated 19th October 1885. Item No. 4, class C works, budget of 1886-87.
	Do. ...	Do. ...	4	Infectious disease ward and cook-house, Station hospital.	6,140	...	...	...	6,140		4	G.O., No. 320 W., dated 7th February 1884. Item No. 5, class C works, budget of 1886-87.
	Do. ...	Do. ...	5	Alterations and additions to Military prison and adjoining buildings.	...	...	...	...	11,260		5	Estimate is awaited. Item No. 2, class C works, budget of 1886-87.
	Do. ...	Do. ...	6	Armourer's shop for the Arsenal ...	...	...	...	...	4,650		6	Estimate is awaited.
	Nilgiri ...	Wellington ...	7	Gymnasium	...	...	...	...	10,000		7	Estimate is awaited. Item No. 7, class C works, budget of 1886-87.
	Do. ...	Do. ...	8	Constructing a new Lock hospital.	...	...	...	...	4,180		8	Estimate is awaited. Item No. 9, class C works, budget of 1886-87.
	Do. ...	Do. ...	9	Accommodation for a mountain battery.	...	...	...	...	10,000		9	Estimate is awaited.
	West Coast.	Calicut ...	10	Providing barrack accommodation for 100 men.	...	...	...	...	...		10	Estimate is awaited. Amount not shown by the Military Department.
	Do. ...	Cannanore ...	11	Plunge-bath for European Infantry barracks.	4,640	7	...	...	4,633		11	G.O., No. 418, dated 16th February 1876. Item No. 11, class C works, budget of 1886-87.
	Do. ...	Do. ...	12	Improving latrines for European Infantry barracks.	2,780	...	...	...	2,780		12	G.O., No. 1056 W., dated 4th April 1879. Item No. 12, class C works, budget of 1886-87.
	Do. ...	Do. ...	13	Improving the roof of regimental guard room, European Infantry barracks.	...	...	...	...	5,060		13	Estimate is awaited.
	Presidency.	Fort St. George.	14	Remodelling drainage	...	...	...	...	10,000		14	Estimate is awaited. Item No. 13, class C works, budget of 1886-87.
	Do. ...	Madras ...	15	Constructing coach-houses and stables on the esplanade in front of the Body Guard lines for use of officers in Fort St. George.	...	...	...	...	15,770		15	Estimate is awaited.
	Do. ...	Bangalore ...	16	Constructing V drains round the single men's blocks.	...	...	...	...	7,830		16	Do. do.
	Do. ...	Do. ...	17	Quarters for schoolmaster and schoolmistress.	10	...	...	...	10,240		17	G.O., No. 2384 W., dated 20th September 1886. Item No. 19, class C works, budget of 1886-87.

APPENDIX B—cont.

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

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Amount applied for 1887-88.			Item No.	Remarks and References.
						Actual to end of 1885-86.	Probable during 1886-87.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY—cont.								
				MILITARY—cont.								
				Original Works—cont.								
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Presidency.	Bangalore ...	18	New orderly room for 12th Lancers, or conversion of Quartermaster's stores into orderly room and stores.	....	...	...	...	6,500		18	Estimate is awaited.
	Do. ...	Do. ...	19	Quarters for Senior Apothecary, North Station hospital.	5,300	...	...	...	5,300		19	G.O., No. 3385 W., dated 27th November 1883. Item No. 20, class C works, budget of 1886-87.
	Do. ...	Do. ...	20	Quarters for the Assistant Apothecary, North Station hospital.	4,773	...	...	...	4,773		20	G.O., No. 938 W., dated 5th April 1884. Item No. 21, class C works, budget of 1886-87.
	Chingleput.	St. Thomas' Mount.	21	A wheeler and collar maker's shop, West barracks.	5,660	...	...	...	5,660		21	G.O., No. 2717 W., dated 3rd November 1884. Item No. 24, class C works, budget of 1886-87.
	Do. ...	Do. ...	22	Sergeants' Mess for East barracks.	...	...	...	...	6,000		22	Estimate is awaited.
	Do. ...	Do. ...	23	General improvements to the drains of the cantonment.	...	...	...	...	10,000		23	Do. do.
	Do. ...	Do. ...	24	Quarters for three Medical Subordinates, Station hospital.	...	...	...	...	8,000		24	Do. do.
	Do. ...	Do. ...	25	Quarters for head-quarter's staff, Royal Artillery.	...	...	...	...	12,000		25	Do. do.
	Do. ...	Do. ...	26	Battery office for P/1st Royal Artillery.	...	...	...	...	5,000		26	Do. do.
	Do. ...	Do. ...	27	Raising the roof of harness rooms, troop lines.	4,200	...	...	...	4,200		27	G.O., No. 3137 W., dated 17th December 1884. Item No. 25, class C works, budget of 1886-87.
	Do. ...	Do. ...	28	Wooden shed at the proof range ...	2,820	...	...	...	2,820		28	G.O., No 3077 W., dated 13th December 1884. Item No. 26, class C works, budget of 1886-87.
	Do. ...	Do. ...	29	Converting the disused gun shed between the North barracks and the main guard into a coffee shop, recreation room, and library.	2,520	...	...	...	2,520		29	G.O., No. 1284 W., dated 28th May 1885. Item No. 27, class C works, budget of 1886-87.
	Do. ...	Pallávaram ...	30	One mortuary room for each of the three hospitals, Nos. 1 to 3.	...	...	...	...	3,000		30	Estimate is awaited. Item No. 28, class C works, budget of 1886-87.
	Do. ...	Poonamallee.	31	Improvements to the old barracks with possibility of obviating construction of the new.	...	...	...	...	5,000		31	Estimate is awaited.
	Do. ...	Do. ...	32	Warrant officers' quarters ...	...	...	...	...	3,500		32	Do. do.
	Do. ...	Do. ...	33	Two staff Sergeants' quarters, first class.	...	...	...	...	6,000		33	Do. do.
	Do. ...	Do. ...	34	Coffee shop	...	...	...	...	9,000		34	Do. do.

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APPENDIX B—cont.

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

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1885-86.	Outlay. Probable during 1886-87.	Amount applied for 1887-88. Works in progress.	Amount applied for 1887-88. Works not commenced.	Amount applied for 1887-88. Total.	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY—cont.								
				MILITARY—cont.								
				Original Works—cont.								
(1) *Accommodation for troops*—Buildings for Native troops.	Vizagapatam	Vizianagram.	35	Regimental store room for Native infantry, including storage for camp equipage.	3,480	...	...	...	3,480		35	G.O., No. 2628 W., dated 27th October 1884. Item No. 32, class C works, budget of 1886-87.
	Bellary ...	Bellary ...	36	School-house for the Native Infantry regiment.	3,030	...	...	...	3,030		36	G.O., No. 149 W., dated 17th January 1884. Item No. 33, class C works, budget of 1886-87.
	West Coast.	Quilon ...	37	Sepoy lines	...	...	...	...	20,000		37	Estimate is awaited.
	Do. ...	Mangalore ...	38	Providing drains for the lines of the Native infantry.	...	...	...	...	6,030		38	Do. do.
	Presidency.	Madras ...	39	Constructing four latrines, two for males and two for females for Native Infantry lines at Perambúr.	...	...	...	...	3,000		39	Do. do.
	Do. ...	Do. ...	40	Flushing drains for Native Infantry lines at Râyapuram.	4,300	...	...	...	4,300		40	G.O., No. 1397 W., dated 4th June 1884. Item No. 34, class C works, budget of 1886-87.
	Chingleput.	Pallâvaram ...	41	Magazine for a Madras Infantry regiment.	4,900	...	...	...	4,500		41	G.O., No. 334 W., dated 8th February 1886. Item No. 38, class C works, budget of 1886-87.
	Do. ...	Do. ...	42	Armourer's shop for a Madras Infantry regiment.	2,880	...	...	...	2,880		42	G.O., No. 3149 W., dated 22nd December 1884. Item No. 29, class C works, budget of 1886-87.
	Trichinopoly.	Trichinopoly. ...	43	Workshops for a Pioneer regiment.	...	...	...	...	8,000		43	Estimate is awaited.
(2) *Ordnance Works.*	Presidency.	Madras ...	44	Compound wall round the Gunpowder Factory.	...	...	...	...	20,200		44	Estimate is awaited. Item No. 39, class C works, budget of 1886-87.
	Do. ...	Do. ...	45	Extra accommodation as store-rooms in the Gunpowder Factory.	...	...	...	...	6,000		45	Estimate is awaited. Item No. 40, class C works, budget of 1886-87.
(3) *Commissariat Buildings.*	West Coast.	Calicut ...	46	Mule and cattle shed	...	...	...	...	4,000		46	Estimate is awaited.
	Presidency.	Bangalore ...	47	Quarters for a Conductor, Transport Department.	5,800	...	...	...	5,800		47	G.O., No. 992 W., dated 16th April 1886. Item No. 51, class C works, budget of 1886-87.
	Do. ...	Do. ...	48	Quarters for Ambulance Sergeant, near Cattle lines, Transport Department.	...	...	...	...	3,000		48	Estimate is awaited.
	Do. ...	Madras ...	49	Lines for transport attendants ...	...	...	...	...	48,000		49	Estimate is awaited. Item No. 49, class C works, budget of 1886-87.
	Do. ...	Do. ...	50	Workshops and sheds for carts, doolies, &c., Transport Department.	...	...	...	...	5,500		50	Estimate is awaited. Item No. 50, class C works, budget of 1886-87.
	Do. ...	Do. ...	51	Construction of a shed at the Camp Equipage Depôt.	...	...	...	...	5,300		51	Estimate is awaited. Item No. 48, class C works, budget of 1886-87.
						...	...	...	...	...		

APPENDIX B—*concld.*

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

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Amount applied for 1887-88.			Item No.	Remarks and References.
						Actual to end of 1885-86.	Probable during 1886-87.	Works in progress.	Works not commenced.	Total.		
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY—*concld.*								
				MILITARY—*concld.*								
				Original Works—concld.								
(3) *Commissariat Buildings.*	Presidency.	Teynampet ...	52	Construction of a wheat godown ...	...	...	...	...	5,950	...	52	Estimate is awaited. Item No. 46, class C works, budget of 1886-87.
	Chingleput.	Guindy ...	53	Quarters for station butchers attached to slaughter-house.	...	...	...	...	4,730	...	53	Estimate is awaited. Item No. 52, class C works, budget of 1886-87.
(4) *Staff and Miscellaneous.*	Nilgiri ...	Ootacamund.	54	Water-supply, Lawrence Asylum.	...	...	...	...	7,000	...	54	Estimate is awaited. Item No. 55, class C works, budget of 1886-87.
(8) *Fortifications* ...	West Coast.	Malapuram ...	55	Constructing fortifications ...	...	...	...	...	8,000	...	55	Estimate is awaited.
	Presidency.	Fort St. George	56	Facing the *en ceinte* of Fort St. George with Portland cement.	...	...	...	...	5,000	...	56	Do. do.
	Do. ...	Do. ...	57	Demolition of Wallajah ravelin and two lunettes.	...	...	...	...	7,426	...	57	Estimate is awaited. Item No. 53, class C works, budget of 1886-87.
	Do. ...	Do. ...	58	Constructing a draw-bridge to North Gate.	...	...	...	...	2,680	...	58	Estimate is awaited.
				Total ...								

28th April 1887, No. 1161 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers :—

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

Madras.

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

Read—

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

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

Revenue.

—	Budget estimate, 1887-88.	Revised estimate, 1886-87.	Budget estimate, 1886-87.	Actuals, 1885-86.
	RS.	RS.	RS.	RS.
In Public Works Department	25,000	16,000	30,000	25,881
Total ...	25,000	16,000	30,000	25,881

Expenditure.

Budget Estimate, 1887-88.

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

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

i. *Class A works—Item 1, barracks for 50 additional men and canteen at Malapuram.*—It has been found desirable to allot only Rs. 11,000 for this work, until it is known what the supplemental estimate includes, what it amounts to, and what prospect there is of the work being vigorously prosecuted. The balance of the grant may be held in reserve by the Madras Government for the present.

ii. *Class B works.*—It is noticed that estimates for items Nos. 2, 6, 7, 8 and 9 have not been prepared and sanctioned. The provision made for items 2 and 6 of the budget seems too high, but the allotments are admitted on the condition that no excess is permitted to take place.

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

Revised Estimate for 1886-87.

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

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

—		Budget estimate, 1887-88.	Revised estimate, 1886-87.	Budget estimate, 1886-87.	Actuals, 1885-86.
		RS.	RS.	RS.	RS.
Original works.	In progress	50,900	1,93,900	2,08,935	1,85,232
	Not commenced	91,700			
Repairs		3,00,000	3,10,500	3,10,465	1,73,187
Total, Works and Repairs ...		4,42,600	5,04,400	5,18,500	3,58,419
Establishment		1,03,000	1,17,500	1,20,700	83,263
Tools and plant		4,400	5,000	5,200	3,563
		5,50,000	6,26,900	6,44,400	4,45,245
Deduct—Excess amount included for expenditure in England in revised estimate		...	1,500	...	...
		5,50,000	6,25,400	6,44,400	4,45,245
Deduct—Expenditure in England		...	* 2,000	...	236
Net Indian outlay ...		5,50,000	6,23,400	6,44,400	4,45,009

* Reduced to Rs. 2,000 to accord with latest advices received from the Secretary of State.

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

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

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

(True Extract.)

E. COLLEN,
Offg. Secy. to the Govt. of India.

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

Telegram from the Government of India, Military Department, dated 7th April 1887.
" " Suptg. Engineer, III Circle, dated 7th April 1887.
Letter from the " " III " " 6th " " No. 29.
" " " " IV " " 2nd " " " 163 E.W.
" " " " V " " " " " " 25.

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

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

* To Simla	20
" Calcutta	25
	45

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

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

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

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

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

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

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

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

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

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

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

(True Extract.)

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

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

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

Forwarded.

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

Exd. P. L. Pereira.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated April, 28th.

Recd. *Encl.*

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

APRIL.

Budget Estimate

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

0074

Appendix to G.O., No. 2497 W., dated 25th September 1886.

BUILDINGS AND ROADS.

SCHEDULE of the probable requirements of the Madras Presidency on account of Military Works for 1887-88.

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Original Works.					Repairs.	Establishment.	Tools and plant.	Suspense.	Grand Total.	Remarks.
						Major works.			Minor works.	Total.						
						Works in progress.	New works.	Total.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for Troops—Buildings for European Troops in the Plains—Permanent.	West Coast.	Malapuram.	1	New barracks for a detachment of British infantry to accommodate 100 men.	A	20,000	..	..	..	..	..	..	..	..	..	Estimate of Rs. 1,35,697 was sanctioned in G.O., No. 2305 W., dated 13th September 1886. Item No. 1, class A works, budget of 1886-87. Revised estimate is necessary.
	Presidency.	Bangalore.	2	Parade barracks, alterations and additions to wash-houses.	B	..	12,500	..	..	..	..	..	..	..	..	Estimate of Rs. 12,500 was sanctioned in G.O., No. 1102 W., dated 7th May 1880. Item No. 23, class C works, budget of 1886-87.
	Nilgiri ..	Wellington.	3	Quarters for three apothecaries.	B	..	16,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Bellary ..	Bellary ..	4	Collarmaker and wheeler's shop, Royal Artillery.	B	..	5,663	..	..	..	..	..	..	..	..	Estimate of Rs. 5,663 was sanctioned in G.O., No. 914 W., dated 3rd April 1884. Item No. 3, class C works, budget of 1886-87.
	Presidency.	Fort St. George.	5	Converting a racquet court into a covered gymnasium.	B	9,850	..	..	..	..	..	..	..	..	..	Estimate of Rs. 11,890 was sanctioned in G.O., No. 1552 W., dated 20th June 1884. Item No. 17, class C works, budget of 1886-87.
	Do. ..	Do. ..	6	Remodelling drainage ..	B	..	10,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Chingleput.	St. Thomas' Mount.	7	A wheeler and collarmaker's shop, West barracks.	B	..	5,660	..	..	..	..	..	..	..	..	Estimate of Rs. 5,660 was sanctioned in G.O., No. 2717 W., dated 3rd November 1884. Item No. 24, class C works, budget of 1886-87.
	West Coast.	Calicut ..	8	Providing barrack accommodation for 100 men.	B	..	..	..	..	..	..	..	..	..	..	Estimate is awaited. Amount not entered by the Quartermaster-General.
	Presidency.	Bangalore.	9	Quarters for schoolmaster and schoolmistress.	C	..	10,240	..	..	..	..	..	..	..	..	Estimate of Rs. 10,240, was sanctioned in G.O., No. 2384 W., dated 20th September 1886. Item No. 19, class C. works, budget of 1886-87.

Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1887-88—*cont.*

Head of classification.	Executive division.	Locality.	Item No.	Project and works.	Class.	Original Works.					Repairs.	Establishment.	Tools and plant.	Suspense.	Grand Total.	Remarks.
						Major works.			Minor works.	Total.						
						Works in progress.	New works.	Total.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
European Troops in the Plains—Permanent—*cont.*	Presidency.	Bangalore.	10	New orderly-room for 12th Lancers, or conversion of Quartermaster's stores into orderly-room and stores.	C	..	6,600	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	11	Quarters for senior apothecary, North station hospital.	C	..	5,300	..	..	..	..	..	..	..	..	Estimate of Rs. 5,300 was sanctioned in G.O., No. 3385 W., dated 27th November 1883. Item No. 22, class C works, budget of 1886-87.
	Do. ..	Do. ..	12	Quarters for the assistant apothecary, North station hospital.	C	..	4,778	..	..	..	..	..	..	..	..	Estimate of Rs. 4,778 was sanctioned in G.O., No. 938 W., dated 5th April 1884. Item No. 21, class C works, budget of 1886-87.
	Nilgiri ..	Wellington.	13	Quarters for barrack sergeant.	C	..	7,348	..	..	..	..	..	..	..	..	Estimate of Rs. 7,348 was sanctioned in G.O., No. 1941 W., dated 21st August 1885. Item No. 10, class C works, budget of 1886-87.
	Do. ..	Do. ..	14	Gymnasium	C	..	10,000	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 7, class C works, budget of 1886-87.
	Bellary ..	Bellary ..	15	A new gun-shed, Royal Artillery.	C	..	3,970	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	16	Swimming-bath, British infantry.	C	..	7,644	..	..	..	..	..	..	..	..	Estimate of Rs. 7,644 was sanctioned in G.O., No. 2434 W., dated 12th October 1883. Item No. 4, class C works, budget of 1886-87.
	Do. ..	Do. ..	17	Infectious disease ward and cook-house, station hospital.	C	..	6,140	..	..	..	..	..	..	..	..	Estimate of Rs. 6,140 was sanctioned in G.O., No. 329 W., dated 7th February 1884. Item No. 5, class C works, budget of 1886-87.
	Do. ..	Do. ..	18	Alterations and additions to military prison and adjoining buildings.	C	..	11,280	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 2, class C works, budget of 1886-87.
	Do. ..	Do. ..	19	Armourer's shop for the arsenal.	C	..	4,650	..	..	..	..	..	..	..	..	Estimate is awaited.
	West Coast.	Cannanore.	20	Plunge-bath for European infantry barracks.	C	..	4,640	..	..	..	..	..	..	..	..	Estimate of Rs. 4,640 was sanctioned in G.O., No. 418, dated 16th February 1876. Item No. 11, class C works, budget of 1886-87.
Accommodation for Troops—Buildings for	Do. ..	Do. ..	21	Improving latrines for European infantry barracks.	C	..	2,780	..	..	..	..	..	..	..	..	Estimate of Rs. 2,780 was sanctioned in G.O., No. 1056 W., dated 4th April 1879. Item No. 12, class C works, budget of 1886-87.
	Do. ..	Do. ..	22	Improving the roof of regimental guard-room, European infantry barracks.	C	..	5,060	..	..	..	..	..	..	..	..	Estimate is awaited.
	Chingleput.	St. Thomas' Mount.	23	Sergeants' mess for East barracks.	C	..	6,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	24	General improvements to the drains of the cantonment.	C	..	10,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	25	Quarters for three medical subordinates, station hospital.	C	..	8,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	26	Quarters for head-quarter's staff, Royal Artillery.	C	..	12,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	27	Battery office for P/1st, Royal Artillery.	C	..	5,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	28	Raising the roof of harness-rooms, troop lines.	C	..	4,200	..	..	..	..	..	..	..	..	Estimate of Rs. 4,200 was sanctioned in G.O., No. 3137 W., dated 17th December 1881. Item No. 25, class C works, budget of 1886-87.
	Do. ..	Do. ..	29	Wooden shed at the Proof range.	C	..	2,820	..	..	..	..	..	..	..	..	Estimate of Rs. 2,820 was sanctioned in G.O., No. 3077 W., dated 13th December 1884. Item No. 26, class C works, budget of 1886-87.
	Do. ..	Do. ..	30	Converting the disused gun-shed between the North barracks and the main guard into a coffee-shop, recreation-room, and library.	C	..	2,520	..	..	..	..	..	..	..	..	Estimate of Rs. 2,520 was sanctioned in G.O., No. 1234 W., dated 28th May 1885. Item No. 27, class C works, budget of 1886-87.
	Do. ..	Pallávaram.	31	One mortuary room for each of the three hospitals Nos. 1 to 3.	C	..	3,000	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 28, class C works, budget of 1886-87.
	Do. ..	Poonamallee.	32	Improvements to the old barracks with possibility of obviating construction of the new.	C	..	5,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	33	Warrant officers' quarters.	C	..	3,500	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	34	Two staff sergeants' quarters, first class.	C	..	6,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	35	Coffee shop	C	..	9,000	..	..	..	..	..	..	..	..	Do.

Schedule of the probable requirements of the Madras Presidency on account of Military Works for 1887-88—*cont.*

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Original Works.					Repairs.	Establishment.	Tools and plant.	Suspense.	Grand Total.	Remarks.
						Major works			Minor works.	Total.						
						Works in progress.	New works.	Total.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for Native Troops.	Presidency.	Bangalore.	36	Public buildings for one regiment of native infantry.	A	11,636	..	..	..	..	..	..	..	..	..	Estimate of Rs. 21,636 was sanctioned in G.O., No. 2952 W., dated 29th November 1884. Item No. 11, class B works, budget of 1886-87.
	Trichinopoly.	Trichinopoly.	37	Construction of stone drains.	A	5,140	..	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 13, class B works, budget of 1886-87.
	Presidency.	Bangalore.	38	Public buildings for a regiment of native cavalry.	B	..	15,000	..	..	..	..	..	..	..	..	Estimate of Rs. 30,990 was sanctioned in G.O., No 1302 W., dated 25th May 1886. Item No. 36, class C works, budget of 1886-87.
	Do. ..	Do. ..	39	Store-rooms and workshops for the Pioneer regiment.	B	..	5,000	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 35, class C works, budget of 1886-87.
	Trichinopoly.	Trichinopoly.	40	Workshops for a Pioneer regiment.	C	..	8,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Presidency.	Madras (Râyapuram)	41	Flushing drains for native infantry lines.	C	..	4,300	..	..	..	..	..	..	..	..	Estimate of Rs. 4,300 was sanctioned in G.O., No. 1307 W., dated 4th June 1884. Item No. 34, class C works, budget of 1886-87.
	Chingleput.	Pallâvaram.	42	Magazine for a Madras infantry regiment.	C	..	4,900	..	..	..	..	..	..	..	..	Estimate of Rs. 4,900 was sanctioned in G.O., No. 324 W., dated 8th February 1886. Item No. 38, class C works, budget of 1886-87.
	Do. ..	Do. ..	43	Armourers' shop for a Madras infantry regiment.	C	..	2,980	..	..	..	..	..	..	..	..	Estimate of Rs. 2,980 was sanctioned in G.O., No. 3149 W., dated 22nd December 1884. Item No. 29, class C works, budget of 1886-87.
	Vizagapatam.	Vizianagrum.	44	Regimental store-room for native infantry including storage for camp equipage.	C	..	3,480	..	..	..	..	..	..	..	..	Estimate of Rs. 3,480 was sanctioned in G.O., No. 2628 W., dated 27th October 1884. Item No. 32, class C works, budget of 1886-87.
Ordnance Works.	Presidency.	Fort St. George.	45	Construction of a new magazine in the Wallajah berm.	A	26,420	..	..	..	..	..	..	..	..	..	Estimate of Rs. 46,420 was submitted to Government of India for sanction (*vide* G.O., No. 1240 W., dated 17th May 1886). Item No 14, class B works, budget of 1886-87.
	Bellary ..	Bellary ..	46	Twelve staff sergeants' quarters, Ordnance Department.	B	..	15,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Presidency.	Madras ..	47	Coal store, Ordnance Department.	B	..	9,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	48	Compound-wall round the the gunpowder factory.	C	..	20,200	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 39, class C works, budget of 1886-87.
	Do. ..	Do. ..	49	Extra accommodation as store rooms in the gunpowder factory.	C	..	6,000	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 40, class C works, budget of 1886-87.
Commissariat Buildings.	Presidency.	Bangalore.	50	Quarters for a Conductor, Transport Department.	C	..	5,800	..	..	..	..	..	..	..	..	Estimate of Rs. 5,800 was sanctioned in G.O., No. 992 W., dated 16th April 1886. Item No. 51, class C works, budget of 1886-87.
	Do. ..	Do. ..	51	Quarters for ambulance sergeant near cattle lines, Transport Department.	C	..	3,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Madras ..	52	Lines for transport attendants.	C	..	48,000	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 49, class C works, budget of 1886-87.
	Do. ..	Do. ..	53	Workshops and sheds for carts, doolies, &c., Transport Department.	C	..	5,500	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 50, class C works, budget of 1886-87.
	Do. ..	Do. ..	54	Construction of a shed at the Camp Equipage Depôt.	C	..	5,300	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 48, class C works, budget of 1886-87.
	Do. ..	Teynampet.	55	Construction of a wheat godown.	C	..	5,950	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 46, class C works budget of 1886-87.
	Chingleput.	Guindy ..	56	Quarters for station butchers attached to slaughter house.	C	..	4,730	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 52, class C works, budget of 1886-87
Fortifications.	Presidency.	Fort St. George.	57	Facing the enceinte of Fort St. George with Portland cement.	B	..	5,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	North Arcot.	Vellore ..	58	Draw-bridge and gate for the fort.	B	..	6,450	..	..	..	..	..	..	..	..	Estimate of Rs. 6,450 was sanctioned in G. O., No. 528 W., dated 7th March 1885. Item No. 54, class C works, budget of 1885-87.
	Presidency.	Fort St. George.	59	Demolition of Wallajah ravelin and two lunettes.	C	..	7,426	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 53, class C works, budget of 1886-87.
Miscellaneous.	Nîlgiri ..	Ootacamund.	60	Water-supply, Lawrence Asylum.	C	..	7,000	..	..	..	..	..	..	..	..	Estimate is awaited. Item No. 55, class C works, budget of 1886-87.
				Total ..	..	73,046	4,12,684	4,85,730	1,20,000	6,05,730	3,50,000	2,19,817	9,553	..	11,85,100	

List of Military Works estimated to cost Rs. 2,500 each or under, and for which funds are required in the Public Works budget for 1887-88.

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			RS.	
Eastern district.	Fort St. George.	Store-room, forge workshop—Arsenal.	520	When funds are available.
	Do. ...	Railings to miscellaneous workshop, &c.—Arsenal.	790	
	Do. ...	A new bridge across trench in new park—Arsenal.	810	
	Do. ...	Improving store godowns—Arsenal.	700	Very necessary. Estimates already sanctioned by Government.
	Do. ...	Do. do.	847	
	Do. ...	Alterations to lower story barracks for armourer shop.	2,367	Very desirable.
	Do. ...	Mess-house verandah—Completion of.	1,900	
	Do. ...	I. room alterations for theatre.	1,000	When funds are available.
	Do. ...	Pipes to carry off rain water from the barracks—Officers' quarters, &c.	990	Recommended.
	Do. ...	Improvements to military prison.	810	When funds are available.
	Do. ...	Putting up 13 ventilator windows in the mess-room of the officers' mess-house of the British Regiment.	600	
	Madras ...	Ordnance store-room—Beach ...	1,250	Necessary.
	Do. ...	Huts, infectious disease—Station hospital.	750	When funds are available.
	Do. ...	Dispensary—Veterinary department, Body Guard.	1,300	
	Do. ...	Regimental school—Perambúr lines, Madras Infantry.	1,375	
	Do. ...	Armourer shops—Perambúr lines, Madras Infantry.	2,000	
	Do. ...	Shed to hold fire-engine at the Government Bakery.	820	Approved.
	Do. ...	Constructing two servants' quarters to each of the Sub-Conductor's quarters of the Commissariat department in the Ordnance lines.	1,145	When funds are available.
	Do. ...	Constructing a water trough and laying in Red Hills water to it for the new Transport lines in the Pudupet plain.	820	
	Do. ...	Godown, wheat, &c.	1,785	
	Do. ...	Drainage—Bakery premises ...	950	
	Do. ...	Gram-boiling shed—Mule lines.	1,500	
	St. Thomas' Mount.	Commissariat—Wells, &c., public cattle depôt.	1,200	
	Do. ...	Royal Artillery—Lightning conductor, Magazine.	1,500	Most important.
	Do. ...	Closing up archway, gun-shed—P. Battery, 1st Brigade.	560	Very necessary.
	Do. ...	Improvements to Sergeants' quarters — Reserve Powder Magazine.	530	*Vide* G.O., No. 1233 W., dated 28th May 1885. Very necessary.
	Do. ...	Constructing a second verandah to the harness rooms attached to east barracks, R.A.	1,170	When funds are available.

List of Military Works estimated to cost Rs. 2,500 each or under, &c.—*cont.*

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Eastern district—*cont.*	Palláveram ...	Camp Equipage store—Madras Infantry.	1,500	When funds are available.
	Do. ...	School—Madras Infantry ...	1,230	
	Do. ...	Tiled shed	636	
	Poonamallee ...	Alteration—Barracks	1,000	
	Do. ...	Wall, new—Family quarters ...	1,000	
	Do. ...	Constructing new walls between the latrines of the family quarters.	730	
	Do. ...	Providing lightning conductor to the Station hospital.	2,400	
	Vizianagrum ...	New magazine — Madras Infantry.	1,530	Very necessary.
	Do. ...	Improvements to hospital—Madras Infantry.	515	When funds are available.
	Do. ...	Improvements to ventilation—Madras Infantry.	545	
	Berhampore ...	Building for Commissariat stores and office.	1,200	
Bangalore division.	Bangalore ...	Royal Artillery—Latrine, Staff Sergeants' quarters, Royal Horse Artillery.	2,100	Very necessary on sanitary grounds.
	Do. ...	Quarters, Battery — Quartermaster Sergeant, Royal Horse Artillery.	1,100	Desirable.
	Do. ...	Cook-house—Sergeants' mess, field batteries.	1,470	Necessary.
	Do. ...	Latrine for men—Stables, field batteries.	620	
	Do. ...	Board floor recreation room—Royal Horse Artillery.	1,240	
	Do. ...	Stone floor to gun-shed, &c. ...	1,160	
	Do. ...	Stone drains—Staff Sergeants' quarters.	564	Necessary. Estimates already sanctioned by Government.
	Do. ...	Two Riding schools	1,156	
	Do. ...	Latrine—Six seats for men at stables	600	Very desirable.
	Do. ...	Camp Equipage stores—Connecting with water-supply.	1,170	When funds are available.
	Do. ...	Latrine for followers	1,600	Necessary.
	Do. ...	South Station Hospital—Quarters for men of Army Hospital Native Corps.	924	
	Do. ...	North Station Hospital—Quarters for men of Army Hospital Native Corps.	756	
	Do. ...	Improving place of arms and hospital.	700	
	Do. ...	Improving Staff Sergeants' quarters.	2,000	When funds are available.
	Do. ...	Improving Sergeant Butcher's quarters.	525	Very necessary.
	Do. ...	Improving road from race-course barracks to slaughter-house.	1,400	When funds are available.
	Do. ...	Additions to accommodation in Transport lines.	1,545	Urgently required.
	Do. ...	Converting Sergeants' quarters into Sub-Conductors' quarters.	1,000	Very necessary.
	Do. ...	Two grass-sheds for the two field batteries.	920	Unauthorised but desirable.

List of Military Works estimated to cost Rs. 2,500 each or under, &c.—*cont.*

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			RS.	
Bangalore division—*cont.*	Bangalore ...	Constructing a stone drain in forage yard and levelling ground.	1,440	Approved.
	Do. ...	Preparing a boarded floor in the room now used as a fencing room.	800	
	Do. ...	Lining with stone the drain east and west of barrack limits, parade barracks.	1,538	Desirable.
	Wellington ..	Renewing floors of latrines and school block.	1,680	Necessary.
	Do. ..	Enlarging purveyor's stores ...	2,000	Very necessary.
	Do. ...	Cooking stoves for Staff Sergeants' quarters.	536	
	Do. ...	Supplying cooking stove, Sergeants' mess.	800	Desirable.
	Do. ...	Laying on drinking water to hospital.	2,226	
Ceded districts.	Bellary ...	Alterations and additions to Armourers' shop, Light Cavalry Regiment.	700	Urgently wanted. The execution of this work will do away with necessity for new building.
	Do. ...	Renewal floor, No. II Magazine, Fort.	616	Very necessary.
	Do. ...	Reflooring Commissariat storerooms with asphalte.	670	
	Do. ...	Drain-pipes required to be fitted around the buildings to carry off rain water from the roofs.	1,600	Desirable.
	Do. ...	Skittle Alley	1,600	When funds are available.
	Do. ...	Guard-room for hospital guard, Station hospital.	1,200	Very desirable.
	Do. ...	Compound wall for the quarters of the Army Hospital Corps.	1,346	When funds are available.
	Do. ...	Compound wall with two gates to enclose female hospital attached to Station hospital.	1,300	
	Do. ...	Compound wall for medical subordinates' quarters, Station hospital.	535	
	Do. ...	Enlarging a well in the cantonment.	854	
	Do. ...	Converting No. 5 division workshop in the Arsenal into an office for the Gate Conductor.	1,750	
Western district.	Cannanore ...	Station hospital—Sinking well.	700	Strongly recommended.
	Do. ...	Replacing the present flooring of the European Infantry cells with concrete in chunam and asphalte.	1,100	Approved.
	Do. ...	Replacing the laterite flooring of the recreation room with concrete in chunam and asphalte, European Infantry.	2,140	When funds are available.
	Do. ...	Constructing a compound wall, and provision of a jungle-wood ceiling to the roof of the regimental cells.	756	Desirable.
	Do. ...	Alterations and improvements to the Government Bakery.	2,117	

List of Military Works estimated to cost Rs. 2,500 each or under, &c.—*cont.*

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			RS.	
Western district—*cont.*	Cannanore ...	Alterations and additions to the divisional offices of the Quartermaster-General's department.	1,577	Desirable.
	Malapuram ...	Converting beer godown into a gymnasium for detachment.	790	All very necessary.
	Do. ...	Converting wood godown into a bakery.	595	
	Do. ...	Providing a platform and pump to well.	1,110	
	Do. ...	Cattle pen in connection with slaughter-house.	612	Desirable.
	Calicut ...	Converting cook-room into a bakery.	840	Urgent.
	Do. ...	Stable and harness-room for 12 mules for the Commissariat department at West Hill Barracks.	1,900	Approved, but something on a cheaper scale should be provided.
	Quilon ...	Renewing floor of hospital ...	1,970	Desirable.
	Do. ..	An Armourers' shop, Madras Infantry.	1,700	When funds are available.
	Do. ...	Two solitary cells	1,500	Approved.
	Mangalore ...	Reflooring hospital, Madras Infantry.	895	When funds are available.
	Do. ...	Additions to Armourers' workshop.	790	
	Do. ...	Constructing permanent verandah for the Quartermaster's store, Native Infantry.	630	
	Do. ...	Putting a tar composite floor in place of arms in lieu of the existing wooden floor, Native Infantry.	653	
	...	Lump sum provision for works costing below Rs. 500 each.	9,909	
		Total ...	1,20,000	

25TH SEPTEMBER 1886, NOS. 2497, 2498 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From Brigadier-General E. FAUNCE, Officiating Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 10th September 1886, No. 3275 A.

In forwarding the schedules of requirements in military works for consideration in connection with the Public Works Department budget for the coming official year, I am desired to offer the following remarks.

MAJOR WORKS.

Most of these have appeared in the lists of previous years, so it is not necessary to enter into their claims for execution ; but there are few which are brought forward this year for the first time, and regarding them it is desirable that something should be said.

I. New barracks at Malapuram.—The grant for the current year will complete, or almost complete, the work hitherto contemplated, but it having been decided that the garrison of that outpost should not consist of less than 150 men, it will be requisite to provide for the erection of another barrack for the 50 men, whom the present barrack will not accommodate.

A canteen too should be provided for, the medical authorities having condemned the building now used for this purpose.

II. New barracks at Calicut.—The present barracks at that station are calculated to hold 100 men only, and accommodation is wanted for 100 additional men, who will be quartered there under arrangements contemplated for the future.

III. Quarters for staff sergeants, &c., Ordnance Department, Bellary.—The recent location of the arsenal at this station demands that provision should be made for these subordinates in the neighbourhood of their duties.

IV. Quarters for Medical Warrant Officers at Wellington.—Only one medical warrant officer is now provided with public quarters ; these are situated in the barracks, too far from the hospital, and might advantageously be used for another purpose. Hired houses are not to be had near the hospital, and when the head-quarters of a British infantry regiment are brought to Wellington, the demand for houses for officers will be so great that none will be available for medical warrant officers.

MINOR WORKS.

But few of the works included in last year's schedule having been provided for in the current year, in consequence of the appropriation to works of other classes of almost two-thirds of the grant made for them,* only the few works noted in the list D, herewith forwarded, have to be removed from the very formidable list submitted last year,† while in the current year demands for a large number of other necessary works of this class have been submitted.

A list of these (E) is herewith forwarded, and the schedule of minor works, as it will then stand with these additions, will in itself show how absolutely necessary it is that for a series of years to come the Government should obtain from the Government of India exceptional grants for this class of works alone.

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* *Vide* this office letter, No. 2688 A., of 3rd August 1886, to Government, Military Department.

† *Vide* proceedings of Madras Government, No. 2445 W., of 20th October 1885.

CLASS A.

WORKS commenced for completion of which grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Bangalore division.	Bangalore ...	1	Subsidiary buildings (including magazine) for one Madras infantry regiment.	RS. 11,636	Item 11, class B, final issue, budget, 1886-87.
	Trichinopoly.	2	Construction of stone drains.	5,140	Item 13 do. do.
Western district.	Malapuram ...	3	New barracks for detachment, British infantry, to accommodate 100 men.	20,000	Item 1, class A do. Provision will have to be made for accommodating 50 more men than barracks now under construction will hold when the garrison of the West Coast is redistributed.
Eastern district.	Fort St. George.	4	New magazine, Wallajah berm.	26,420	Estimate now before Government. Item 14, class B, final issue, budget, 1886-87.

OOTACAMUND,
10th September 1886.

(Signed) E. FAUNCE, Brigadier-General,
Offg. Quartermaster-General.

CLASS B.

WORKS of special urgency not yet commenced, for which funds are absolutely required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Bangalore division.	Bangalore ...	1	Subsidiary buildings, Madras cavalry regiment (less magazine).	RS. 15,000	Very urgent. Rs. 14,000 were first allotted, but subsequently surrendered (see G.O., No. 3092 W., of 30th December 1885, and No. 1084 W., of 29th April 1886). Item 36, class C, final issue, budget, 1886-87.
	Do.	2	Store-rooms and workshops for a Pioneer regiment ...	8,000	Item 35, class C do. do.
	Do.	3	Improving wash-houses, Parade barracks	12,500	Very desirable.
	Wellington ...	4	Quarters for three apothecaries	16,000	Desirable, especially if head-quarters, British infantry regiment, be sent to Wellington.
Ceded Districts.	Bellary ...	5	Twelve staff sergeants' quarters (Ordnance Department).	15,000	Most essential.
	Do.	6	Collarmaker and wheeler's shop, Royal Artillery ...	5,663	
Eastern district.	Fort St. George.	7	Converting racquet court into a covered gymnasium ...	11,890	Item 17, class C, final issue, budget, 1886-87. Rs. 9,890 were first allotted and afterwards surrendered (proceedings of Government, No. 1084 W., of 29th April 1886).
	Do.	8	Remodelling drainage	10,000	Improvements to drainage very desirable.
	Do.	9	Facing the enceinte of Fort St. George with Portland cement.	5,000	
	Saint Thomas' Mount.	10	A wheeler and collarmaker's shop for the West barracks.	5,660	
	Vellore ...	11	Drawbridge and gate to the fort	6,450	Necessary. Item 54, class C, final issue, budget, 1886-87. Rs. 6,450 were at first allotted, but afterwards surrendered (proceedings of Government, No. 1084 W., of 29th April 1886).
	Madras ...	12	Coal store, Ordnance Department	9,000	A building is now being rented for this purpose at Rs. 100 per mensem.
Western district...	Calicut ...	13	Providing barrack accommodation for 100 men ...	...	In order to do away with the necessity of keeping any British troops at Cannanore.

(Signed) E. FAUNCE, Brigadier-General,
Offg. Quartermaster-General.

OOTACAMUND,
10th September 1886.

Class C.

Works of less urgency not yet commenced for which also grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Bangalore division.	Bangalore ...	1	Quarters for schoolmaster and schoolmistress, Royal Artillery.	Rs. 10,240	Estimate before Government.
	Do.	2	Quarters for a Conductor, Transport Department ...	5,800	
	Do.	3	12th Lancers. New orderly-room, or conversion of Quartermaster's stores into orderly-room and stores.	6,500	
	Do.	4	Transport Department. Quarters for ambulance sergeant near cattle lines.	3,000	
	Do.	5	Quarters for senior apothecary, North station hospital.	5,300	
	Do.	6	Quarters for assistant apothecary, North station hospital.	4,773	
	Wellington ...	7	Laying on drinking water to hospital	5,000	An estimate of Rs. 2,226 havingbeen sanctioned in G.O., No. 893 W., dated 2nd April 1886, the work is transferred to minor works statement.
	Do.	8	Quarters for barrack sergeant	7,348	
	Do.	9	Gymnasium	10,000	
	Trichinopoly ...	10	Workshops for a Pioneer regiment	8,000	Commander-in-Chief considers this essential.
	Ootacamund ...	11	Water-supply, Lawrence Asylum	7,000	
Ceded Districts.	Bellary ...	12	A new gunshed, Royal Artillery	3,970	
	Do.	13	Swimming-bath, British infantry	7,644	
	Do.	14	Infectious disease ward and cook-house, station hospital.	6,140	
	Do.	15	Alterations and additions to military prison and adjoining building.	11,260	Very necessary.
	Do.	16	Armourers' shop for the arsenal	4,650	
Western district	Cannanore ...	17	Plunge-bath, European infantry barracks	4,690	
	Do.	18	Improving latrines, European infantry barracks ...	2,780	
	Do.	19	Improving roof of regimental guard-room, European infantry barracks.	5,060	
Eastern District.	Madras ...	20	Compound-wall round the gunpowder factory ...	20,240	
	Do.	21	Extra store-room, accommodation, gun carriage factory.	6,000	
	Do.	22	Quarters for station butchers attached to slaughter-house, Guindy.	4,740	
	Do.	23	Lines for Transport attendants	48,000	
	Do.	24	Workshops and sheds for carts, doolies, &c., Transport Department.	5,500	
	Do.	25	Construction of a shed at the Camp Equipage Depôt.	5,300	
	(Rayapuram) ...	26	Flushing drains for native infantry	4,300	
	Do.	27	Improvements to Barrel machine shops, gun carriage factory.	...	The work having been already completed, it has been omitted.
	Tenampet ...	28	Constructing a wheat godown	5,950	
	Fort St. George.	29	Demolition of Wallajah ravelin and 2 lunettes ...	7,434	
	St. Thomas' Mount.	30	Sergeants' mess for East barracks	6,000	
	Do.	31	General improvements of the drains of the cantonment.	10,000	
	Do.	32	Quarters for three medical subordinates, Station hospital.	8,000	Proposed to convert south barracks into quarters for medical subordinates, if not required for Battery, Royal Artillery.
	Do.	33	Quarters for Head-quarters Staff, Royal Artillery ...	12,000	Proposed to convert south barracks into quarters for head-quarters staff also.
	Do.	34	Battery office for P/1st, Royal Artillery	5,000	
	Do.	35	Raising roof of harness room, troop lines	4,200	
	Do.	36	Wooden-shed at the proof range	2,820	
	Do.	37	Converting disused gun-shed between North barracks and main guard into coffee-shop, recreation-room and library.	2,520	If field battery is placed in the barracks.
	Pallávaram ...	33	One mortuary room for each of the three hospitals Nos. 1 to 3.	3,000	
	Do.	39	Magazine for a Madras infantry regiment on standard plan.	4,500	
	Do.	40	Armourers' shop for a Madras infantry regiment ...	2,880	
	Poonamallee ...	41	Improvements to old barrack with possibility of obviating construction of the new.	5,000	
	Do.	42	Lightning conductors to the Station hospital	6,360	An estimate of Rs. 2,400 having been sanctioned in G.O., No. 193 W., dated 23rd January 1886, the work is transferred to minor works statement.
	Do.	43	Warrant officers' quarters	3,500	
	Do.	44	Two staff sergeants' quarters, first class	6,000	
	Do.	45	Coffee shop	9,000	
	Vizianagram ...	46	Regimental store-room including storage for camp equipage.	3,480	

Ootacamund,
10th September 1886.

(Signed) E. FAUNCE, Brigadier-General,
Offg. Quartermaster General.

Office note from the Examiner, Public Works Accounts, dated 16th Sept. 1886, No. 428.

Order—dated 25th September 1886, No. 2497 W., Public Works.

Ordered that the schedule of requirements on account of military works in the Madras presidency for 1887-88 be forwarded to the Government of India in the Military Department.

2. Ordered also that the schedules be printed and circulated to Superintending Engineers, who should lose no time in submitting the necessary plans and estimates for the unsanctioned works included in the schedules, as none of them can find place in the budget estimates for 1887-88, unless plans and estimates have been previously sanctioned.

(Here enter No. 2498 W., dated 25th September 1886.)

(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 „

Letter—to the Secretary to the Government of India, Military Department, dated Fort St. George, 25th September 1886, No. 2498 W.

In forwarding, herewith, the proceedings of this Government, No. 2497 W., dated 25th September 1886, and the schedules of demands on account of military works for 1887-88, I am directed to solicit the special attention of the Government of India to the remarks of the Quartermaster-General contained in his letter, No. 3275 A., dated 10th September 1886, under "Minor Works," and to urge that a specially liberal grant may be assigned under this service, in order that many important works now kept back for want of funds may be undertaken in the ensuing year.

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

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated September, 25th.

Recd. *Encl.*

G.O., 25th Sept. 1886, No. 2497, 2498 W.

SEPTEMBER.

Military Works

The schedules of requirements on account of — in the Madras presidency for 1887-88, forwarded to the Government of India and circulated to Superintending Engineers.

1887.

P. W. DEPARTMENT.

Current No. 6517

From The Military Dept.

Enclos.—

No. 4896.
Dated 11. 8. 87
Received 13. 8. 87.

SUBJECT.

Coal Store for the Ordnance Department.

Transferring letter from the Qr. Master General requesting that a site near the old Vepery lines, be acquired for the erection of a [illegible]

DISPOSAL.

No. [illegible] D. Dated 17th August 1887.

Referred to the Supdg. Engineer, V Circle, who will ascertain and report, as early as practicable, whether a suitable site on the

the land indicated in para 3 can be acquired, and if so on what terms.

(Sd)

J. D. Hunter Col. R.E.
Secy to Govt. P.W.D.

S.O. 2746/W of 16-10-86
" 1161/W of 25-4-87

1887.

P. W. DEPARTMENT.

Current No. 6659 / 95

From The Quartermaster General

ENCLOS.— —

No. 2946.A.
Dated 20th August | 87
Received 23rd —do— |

SUBJECT.

~~Coal Store for the Ordnance Department~~

Bringing to notice the delay in the selection of a site for the ——

DISPOSAL.

No. 47 D. Dated [illegible] 1887.

Referred, in continuation of No 432 D of 17th August 1887, to the Supdg Engineer, V Circle for early report.

(Sd) J. D. Hunter Col. R.E.
Secy to Govt. P.W.D.

432 O of 17-8-87
1161 W of 28-4-87
2746 W of 18-10-86
2497 } W of 25-9-86
2498 }

Form No. 20 A. / 7 E.

Re the following papers.

QUARTER MASTER GENERAL'S OFFICE,
Ootacamund,
20th August 1887.

No. 2946 A.

36

From

BRIGADIER-GENERAL E. FAUNCE,
QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,
Public Works DEPARTMENT.

SIR,

As early in June no plan and Estimate for the new coal store for the Ordnance Department at Madras, which had been provided for in the current year's Budget, had reached this office, enquiries regarding them were made. These elicited the fact that the preparation of the plan &ca had been delayed because no site for the building had been selected up to date, the delay in this being accounted for by the fact that the

the Superintending Engineer Vth Circle apparently considered that it was incumbent on the Inspector General of Ordnance to have a site selected and to inform him of its position, while the Inspector General of Ordnance understood that the Superintending Engineer was moving in the matter inasmuch as, presumably under his orders, the Executive Engineer, in November last had communicated with the Inspector General of Ordnance about a site and mentioned one which subsequently the latter officer informed the Superintending Engineer was unsuitable.

2. As delays of this nature had to retard execution of works at the proper time and consequently

to

to upset calculations in connection with expenditure under Budget allotments, the Commander in Chief considers that measures should be taken to prevent them, and therefore desires me to submit for your consideration his opinion that having distinctly been ordered to send in plans and Estimates for this work, amongst others proposed for execution in the current year,* it was incumbent on the Superintending Engineer Vth Circle to have taken definite steps towards the essential preliminary of having a site fixed, and to have made a report of the fact should he have found that owing to circumstances beyond his control in connection with this preliminary,

the

* Vide P.G. No. 2497W d/ 25th Septr '86

the submission in due time of the plans and Estimates for which he was responsible would be delayed.

I have the honor to be

Sir,

Your obedt. Servant.

Brigr. Genl

Quarter master Genl

Rd. No. 4578
25-8-87

[illegible]
to the [illegible]

No. 472 D of 23rd August 1887.

Referred, in continuation of No. 432 D dated 17th August 1887, to the Supdg Engr V Circle for early report

Johnston Col. R.E.
Secy to Govt P.W.D.

P.W.
~~Military~~ (1887) Department.

No.

From

The Quarter Master General,

To

The Secretary to Government,

~~Military~~ Department.
Public Works

22 AU 887

No. 2946. A.

Dated 20 } August
Received 22 }

Enclosures. Nil

Bringing to notice the delay by the P.W.D. in the selection of site for the Coal Store for Ordce Depott Madras.

Referred

No. 2226. Supdg: Engineer's Office, V Circle
Bangalore, 29th August 1887.

From
Colonel H. M. Vibart R.E.
Supdg: Engineer, V Circle.

To
The Chief Engineer,
P. W. Department.

Sir,

In returning your endorsement No. 472 D dated 23rd August 1887, I have the honor to state that the preparation of the Plan and Estimate for the proposed Coal store has been delayed, not only on account of the site not having been selected, but also for want of information as to the quantity of coal the proposed building would be required to hold - This information called for from the Military Department on the 22nd January 1887 - was received only on the 26th July 1887.

2. I should also mention that some correspondence which took place between the Inspector General of Ordnance and the Supdg: Engineer - as to the site and size of the proposed coal store ended × with the Superintending Engineer informing the Inspector General of Ordnance on the 9th February 1887 that

× by telephone message in reply to an enquiry from the I. General through the same channel.
L.S.

that the "Public Works Department will "make no objection to use of the Veysarpady "Powder Magazine as the Ordnance Coal "Shed if it is thought by the Inspector General "Of Ordnance to be suitable." This left the matter in the position as if the proposal for a new coal store was likely to be departed from — and it was not until the 26th July 1887 or after the lapse of more than five months, that the intimation was received from the Military Department that "the Ordnance Department state that the "Veysarpady Magazine is too inconveniently "situated to be of use".

3. It will be seen from the above that the P. W. Department is in no way to blame for the delay complained of by the Military Department in this matter.

I have the honor to be
Sir
Your most Obedient Servant

Sibbett Coll. R.E.

Supdg. Engineer, V Circle

478 D of 23-8-87.
472 D . 23-8-87.
432 D 17-8-87
1161 W . 28-6-87
2746 W . 18-10-86
2497 W . 25-9-86
1922 W . 11-7-87

1692 W of 23 . 6 . 87
534 W " 26 . 2 . 87
2497
2498 W . 425-9-87

P.W.C. No. 6778

No. 5202 d/ 2 Sept 87

Copy of the above forwarded to the Quarter Master General with reference to his letter No. 2946 A of 20th August 1887.

2 It will be seen from the Supdg Engrs letter that the Public Works Dept. is not responsible for the delay complained of.

Jolt 1/9/87.

To the Qr. Mr. Genl
" S E V Circle

a. 31.8.87.

No. 2226.

From
The Superintg Engineer
5th Circle

To
The Chief Engineer
P.W. Department.

No. 520 D d/ 2 Sept 87

Dated 29th }
Despd. 31st } August 1887
Recd. }

Encl. 1

Coal Store for Ordnance Department at Madras.

Reports the cause of delay in the selection of site for ~~the~~

despd 2/9/87

No. O/8215 K 7

Ordnance Office
Fort Saint George,
10th September 1887.

From
Col. H. McLeod R.A.
Inspector General of Ordnance

To
The Quarter Master General
Ootacamund

Sir,

Adverting to your No. 3145 A dated 6th Instant forwarding copy of a letter from the Superintending Engineer V Circle to the Secretary to Government P.W.D. through Eastern Dt., I have the honor to inform you that the letter, stated by the Superintending Engineer, to bear date 9th February 1887 containing a proposal to the Inspector General of Ordnance to the effect that the Public Works Department would have no objection to the utilization of the Veysarpady Magazine as a coal store

store, does not exist in this Office records nor indeed is there any letter at any time containing such a ~ proposal.

I have &ca.

(Signed) H. McLeod Col. R.A.
Inspector Genl. of Ordnance

Quarter Master Genl's Office
Ootacamund,
13th September 1887.

No. 3258 A.

True copy forwarded for ~ information with reference to Memo. No. 520 D dated 2nd Instant from the Secretary to Government Public Works Department

(By order)

Brigadier Genl.
Quarter Master Genl.

To
The Secretary to Government
Public Works Deptt.
Ootacamund

GO 1161 W d/28.4.87
No. 432 D d/7.8.87
472 D d/23.8.87
520 D d/2.9.87

D p 9

No. 578 D d/ 19 Septr. 87

Copy forwarded

Copy forwarded to the Supdg. Engineer V Circle, with reference to his letter No. 2226 d/. 29th Augt 1887 for further enquiry and report.

18/9/87

S.E. V Circle despd 19/9/87

S.E. V Circle

Old 29.IX

P.W.C. No. 73025
P.W. (1887) Deptt.

From
Brigr.-Gl. E. Faunce
Qr.-Mr.-Gl.

To
The Secy. to Govt.
P.W. Deptt.

No. 3258 A

Dated 13th } September '87
Recd. }

No. 578 D d/ 19 Septr. 87

Enclosures - Nil.

Communicating copy of letter from Inspector Genl. of Ordnance regarding the delay in the selection of a site for a coal store - Ordnance Department - Madras.

No. 2587.

Superintending Engineer's Office,
V Circle, Madras,
33
Chepák, 21st September 1887.

From
Coll. H. M. Vibart, R.E.
The Superintending Engineer,
V Circle,

To
The Chief Engineer,
P.W. Department

Enclosures.

Sir,

With reference to your Memorandum No. 578 D dated 19th September 1887, I have the honor to enclose a copy of the last three papers connected with the correspondence with the Inspector General of Ordnance regarding site and size of the proposed coal store.

I have the honor to be
Sir
Your Most Obedient Servt.
H. M. Vibart
Coll. R.E.
Superintending Engineer
5 Circle

1.

From

The Superintending Engineer,

V Circle.

(1)

G.O. No 11016 d/28.4.87

" 24978 d/25.7.86

No 472 Da/23.8.87

" 432 Da/17.8.87

" 520 Da/2.9.87

" 578 Da/19.9.87

To

The Chief Engineer

P.W. Department

Dated 21 September 1887.

Recd.

Enclosures 1

No. 2587.

Coal Shed

Enclosing copy of Correspondence regarding the proposed —

D. 24.9.87

Enclosure

Superintending Engr's Office

No 5641. 5th Circle —

8th February 1887

From.

The Superintending Engineer

— 5th Circle —

To,

The Inspector - General

— Of Ordnance —

Sir,

With reference to your letter No 9/15085 dated 29 January 1887. I have the honor to request you to hasten the information called for concerning Site and Capacity of proposed Coal Shed.

The Quartermaster - General is calling on P.W. Department for Plans and Estimates, but no progress can be made until site and size of Shed are known.

I have &c —

(Signed) W. H. Burton Col. R.E.

Superintending Engr.

5 Circle

Telephone Message

From

The Inspector General
of Ordnance.

To

The Superintending Engineer
5th Circle

His Letter 554 D/8

I thought it was arranged that the Veyasarpaudy Magazine should be utilised as a Coal Shed.

Reply by Telephone to Inspector General of Ordnance.

Public Works Department will make no objection to use of the Veyasarpaudy Powder Magazine as the Ordnance Coal Shed if it is thought by Inspector General of Ordnance to be suitable.

(Initialed). W. H. B.

9 February 1897. Superintending Engr.
5 Circle

True Copy.

Madras. Colle R. E.,
21 September 1897. Superintending Engineer
5th Circle

P. W. DEPARTMENT.

READ the following:—

Letter from the Quarter Master General No. 2946 A, of 28 August 1887;
Do. - - the Supdg. Engineer, V Circle, No. 2226; of 29th August 1887;
Do. - the Quarter Master General No. 3258 A. of 13th September 1887;
Do. . the Supdg. Engineer, V Circle, No. 2587, of 21st September 1887.

FOR ORDERS.

The above correspondence relates to delay, brought to notice by H.E. the Commander-in-Chief, in the preparation of plans and estimates for a coal store for the Ordnance Department at Madras.

The work was entered in the list of Military requirements circulated with G.O. No. 2497 W, dated 25th Septr. 1886, in which Superintending Engineers were instructed to "lose no time in submitting the necessary plans and estimates for the

works

P. F. H.
[illegible]

In my opinion this case is accurately described in the last para of this note and the Officers concerned shd be so informed

C. G. A.

6.10.87

FOR ORDERS.

works included in the Schedules". It was subsequently provided for in the Budget Estimate published with G.O. 1161W, dated 28th April 1887, with the following remark entered against it – "Estimate is awaited".

The Supdg. Engineer explains that the preparation of the plan and estimate for the work was delayed "not only on account of the site not having been selected, but also for want of information as to the quantity of coal the proposed building would be required to hold". This information seems to have been ×called for from the Military Dept. on the 22nd January 1887, or four months after the orders of Government of Septr. 1886 quoted above – But previous to this + in November last the

× Vide para 1 of Supdg. Engr's letter No. 2226, of 29th August 1887.

+ Vide para 1 of Q.M. General's letter No. 2946 A of 20 August 1887

the Executive Engineer would seem to have been in communication with the Inspector General of Ordnance in regard to the site, ~~but~~ though nothing definite was decided. There were also some telephonic messages between the Supdg. Engineer and Inspector General of Ordnance in February, which, however, were subsequently lost sight of in the Inspector General's office.

His Excellency The Commander-in-Chief considers that the responsibility for the delay rests with the Supdg. Engineer inasmuch as he failed to take definite steps towards the settlement of a site or to report to higher authority the delay which was taking place.

~~[illegible]~~

Matters were no doubt also retarded by the manner in which references were replied to or

38

or overlooked by the Inspector General of Ordnance, but the Supt.g Engineer, being responsible to Government for the preparation of the plans and estimates and the utilising of the budget grant, should not ~~apparently~~, have allowed the subject to drift in the way he did.

The papers do not shew whether the requisite preliminaries have been now been settled.

J.C.
11/10/87

The S of S Under
Mily Dept
([illegible] [illegible] [illegible] [illegible]
for [illegible] of [illegible]) see draft

R.S.

Delay in preparation of plans & estimates

The Hon Mr. Hutchins

H.E. the C. in C.

2694 W

B & R
Military Works

PUBLIC WORKS DEPARTMENT.

No. 2694 W

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 13th October /87

READ the following

Letter from the Quarter Master General No. 2946 A d/ 20th Augt 1887.
Do Supdg Engineer, V Circle " 2226 " 29th " "
Do. Quarter Master General " 3258 A. " 13th Septr 1887.
Do. the Supdg Engineer, V Circle " 2587 " 21 " "

13

The above correspondence relates to delay, brought to notice by H.E. the Commander-in-Chief, in the preparation of plans and estimates for a coal store for the Ordnance Department at Madras.

2. The work was entered in the list of Military requirements circulated with G.O. No. 2497 W, dated 25th Septr 1886, in which Supdg Engineers were instructed to "lose no time in submitting

the necessary plans and estimates for the unsanctioned works included in the Schedules". It was subsequently provided for in the Budget Estimate published with G.O. 1161 W, dated 28th April 1887, with the following remarks entered against it. "Estimate is awaited".

3. The Supply Engineer explains that the preparation of the plan and estimate for the works was delayed "not only on account of the site not having been selected, but also for want of information as to the quantity of coal the proposed building would be required to hold". This information seems to have been called for from the Military Dept on the 22nd January 1887, or four months after the orders of Government

"Vide para 1
of Supply Engrs
letter No 2226
d/24 Augt 1887

of Septr 1886 quoted above.

But previous to this, in November last, the Executive Engineer would seem to have been in Communication with the Inspector General of Ordnance in regards to the Site, though nothing definite was decided. There were also some telephone messages between the Supply Engineer and the Inspector General of Ordnance in February, which were subsequently lost sight of in the Inspector General's Office.

o Vide para 1
of Qr Mr
General's letter
No 2946 A
d/20 Augt 1887

4. His Excellency the Commander-in-Chief considers that the responsibility of the delay rests with the Supply Engineer in as much as he failed to take definite steps towards the settlement of a Site or to report to higher authority the delay which was taking place.

Matters

5. Matters were no doubt, in the opinion of His Excellency the Governor in Council, retarded by the manner in which references were replied to or overlooked by the Inspector General of Ordnance, but the Supply Engineer being responsible to Government for the preparation of the plans and estimates and the utilising of the budget grant, should not have allowed the subject to drift in the way he did.

6. The papers do not show whether the requisite preliminaries have even now been settled.

7. The Supply Engineer will see that no further delay occurs.

8/10/07

15.10.07

Delay in preparation of Plans and Estimates

Print

13.10.07

BW 13/10

Desd 19/10

To
The Supply Engineer, of Circle
" Milty Dept

(Secy to Govt Military Dept for favour of Councillor's initials)

7480

Govt. of (1887) Madras
PUBLIC WORKS

13/10/8

Dated

Recd.

Encl.

G.O. 13 Oct: 1887, No. 2694

Coal store for the
Ordnance Department
at Madras

Orders on correspondence
relative to the delay
in the submission of plans
and estimates for a—

50/3