(1) பக்கங்களின் எண்ணிக்கை 84

(2) புதுக்கித் திருப்பிய நாள் 9.88

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் ____

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப் பணித் துறை

அரசாணை எண். 2556 - 570 அச்சகம்
மு. கோப்புத் தாள் எண். பலவகை

நாள் : 18.10.1884 ~~198~~.

ரா கண்டபடி கையாளவோ கூடாது

3,006—15-6-87.

2556/2557

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 3rd October 1884, No. 1487-A.

I have the honor, by order, to forward, herewith, the schedules of military works, major and minor, required to be provided for in the budget list of 1885-86, together with a list of the more important major works, classified as per margin and entered in the order of their urgency, which His Excellency the Commander-in-Chief would wish submitted for the special consideration of Government, with the following observations :—

Class A.—Works actually in progress to complete which grants are wanted.
Class B.—Urgent works not yet commenced for which grants are required.

Class A.—The works under this classification being actually in progress, the necessity of suitable grants being allotted for their completion needs no comment.

Class B. I.—Last year it was hoped that the first two items in this class, viz., "Gymnasium, British infantry, Fort St. George," and "Accommodation, native cavalry regiment, Bangalore," would, by the opening of the current year, belong to class A; but this hope has not yet been realised. His Excellency would therefore urge upon Government the necessity of providing funds at an early date for the commencement of these important works.

II. *Item No.* 3.—"Bakery at Wellington" was also expected to belong to class A this year, but this has not been the case up to date; and as, in His Excellency's opinion, the work is one of special urgency, he hopes Government will allot funds at an early date for its commencement.

III. *Item No.* 4.—"Accommodation for a native infantry regiment, Bangalore." The 14th regiment, native infantry, for whom these buildings are required, have arrived at Bangalore and are now engaged in building their lines at that station, and it is very desirable that funds should be allotted as soon as possible, so that a commencement may be made for providing the necessary subsidiary buildings.

IV. *Item No.* 5.—"Military prison at Bangalore." This work is, in His Excellency's opinion, of great importance and very urgent, and he therefore hopes funds will be provided for it next year.

V. *Item No.* 6.—"Water-supply to barracks, Royal artillery and British infantry, Bellary." This is a work the importance of which is strongly urged by the medical authorities.

VI. *Item No.* 7.—"Armourer's shop, 2nd Light cavalry, Bellary." This is a work very much needed and of real importance, and should not be delayed.

VII. *Item No.* 8.—"Store-rooms and workshops for the Pioneer regiment at Bangalore." It having been decided that a Pioneer regiment shall be always located at Bangalore, and as the 1st Madras Pioneers may be expected to arrive there in the course of a few months, it is very desirable that these buildings should be furnished for their equipment, &c., as soon as possible.

VIII. *Item No.* 9.—"Stabling for Royal artillery, two batteries, Saint Thomas' Mount." The Commander-in-Chief would again urge upon Government the great importance of having their horses properly sheltered, and accordingly recommends an early allotment of funds for the commencement of this work.

IX. *Items Nos.* 10 *and* 11.—"Additional hospital accommodation for women and children" and a "church" at Wellington. These are urgent requirements and should therefore not be delayed.

X. *Item No.* 12.—"Coffee shops, Royal artillery, Saint Thomas' Mount." These are, in His Excellency's opinion, urgently required for the two field batteries at Saint Thomas' Mount.

2. The other works in the schedule, although not entered in class B, are nevertheless considered to be really necessary, and it is only because an undue demand for funds would have to be made in connection with them that they are omitted therefrom.

3. In conclusion, His Excellency would strongly urge upon Government the necessity, from the foregoing remarks, of appealing to the Government of India for a large and liberal grant for military works in the coming year, so that none of the many important original works included in class B may be allowed to stand over any longer.

CLASS A.—Works commenced for completion of which grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				Rs.	
Eastern District.	Madras ...	1	Gunpowder mills, alterations and additions to.	1,96,630	
		2	(a) Coast batteries, completion of.	...	(a) The Superintending Engineer, V Circle, reports that the work will be completed in the current official year.
		3	Armament, Fort St. George, mounting of, &c.,	42,000	
	St. Thomas' Mount.	4	Barracks, Royal artillary, completion of.	1,27,750	
Western District.	Malappuram.	5	Barracks for detachment. ...	1,31,610	
Bangalore Division.	Bangalore ...	6	Entrenchment	16,100	
			Ordnance depôt	16,780	
	Trichinopoly.	7	Accommodation for two regiments, native infantry, combined.	21,140	
Eastern District.	Madras ...	8	Quarters for warrant and non-commissioned officers, Commissariat Department.	26,740	

CLASS B.—Works of special urgency not yet commenced for which grants are absolutely required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				Rs.	
Eastern District.	Fort St. George.	1	Gymnasium, British infantry, Fort St. George.	11,570	
Bangalore Division.	Bangalore...	2	Accommodation, native cavalry regiment.	29,600	
	Wellington.	3	Bakery for depôt (including latrine).	32,000	
	Bangalore...	4	Accommodation for one native infantry regiment (less magazine.)	14,610	
Bangalore Division.	Bangalore ..	5	Additions to the military prison.	8,335	

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Class B.—Works of special urgency not yet commenced for which grants are absolutely required—*cont.*

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				Rs.	
Ceded Districts.	Bellary ...	6	Water-supply to barracks, Royal artillery and British infantry.	3,000	An estimate for Rs. 27,630 was received, but returned for revision.
Do. ...	Do. ...	7	Armourers' shops 2nd Light cavalry.	2,695	
Bangalore Division.	Bangalore...	8	Store-rooms and workshops for the Pioneer regiment.	3,000	
Eastern District.	St. Thomas' Mount.	9	Stables for Royal artillery, two batteries.	20,160	
Bangalore Division.	Wellington.	10	Addditional hospital accommodation for women and children.	5,000	
Eastern District.	St. Thomas' Mount.	11	Coffee shops, three in number — one for each, north, south and new artillery barracks.	9,000	

OOTACAMUND,
3rd October 1884.

(Signed) A. G. HUTCHINS, Major,
Offg. Deputy Quartermaster-General.

Office note from the Superintending Engineer, V Circle, dated 8th October 1884, No. 2822.
Do. from the Examiner of Public Works Accounts, dated 9th October 1884, No. 506.
From the Government of India, dated 2nd October 1884, No. 994 M.W.

ORDER—dated 18th October 1884, No. 2556 W., Public Works.

Ordered that the schedules of military requirements on account of public works under Buildings and Roads in the Madras Presidency for 1885-86 be forwarded to the Government of India in the Military Department.

2. Ordered also that the lists of military works be printed and circulated to Superintending Engineers, in view to the necessary projects being prepared in detail.

3. The Superintending Engineers 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 1885-86 unless regular plans and estimates have been sanctioned.

(Here enter No. 2557 W., dated 18th October 1884.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

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

Exd. E. Fernandez.
Spare Copies

2

GENERAL.
ACCOUNT.

Govt. of [1884] Madras.

PUBLIC WORKS.

Dated October, 1884.

Rect. Encl.

G.O., 18th Oct. 1884, No. 2556 W.

OCTOBER.

Military Works for 1885-86

Orders on schedules of demands on account of—.

2556/2557

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

COLONEL J. SHAW-STEWART, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
MILITARY DEPARTMENT.

SIR,

In forwarding the accompanying proceedings of this Government, No. 2556 W., dated 18th October 1884, with schedules of demands on account of military works for 1885-86, I am directed to solicit the particular attention of the Government of India to paragraph 3 of the Quartermaster-General's letter, No. 1487-A, dated 3rd October 1884, conveying the strong recommendation of His Excellency the Commander-in-Chief that a liberal grant may be made for this service.

I have the honor to be,
Sir,
Your most obedient servant,

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

FORT ST. GEORGE,
18th October 1884.

Exd. E. Fernandez.
Spare Copies

3

GENERAL.
ACCOUNT.

Govt. of [1884] Madras.

PUBLIC WORKS.

Dated October, 18*8*.

Encl. *Encl.*

18th Oct. 1884, No. 2557 W.

OCTOBER.

Military Works for 1885-86

[Forwarding schedules of demands on account of —.

2556/2557

Appendix to G.O., No. 2556 W., dated 18th October 1884.

BUILDINGS AND ROADS.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1885-86.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Class.	Original Works. Major Works. Works in progress.	Original Works. Major Works. New Works.	Original Works. Major Works. Total.	Original Works. Minor Works.	Original Works. Total.	Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks.
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Accommodation for troops—Buildings for European troops in the plains—Permanent.	Presidency ..	Fort St. George	1	Converting a racket court into a covered gymnasium.	B.	..	11,570	11,570	..	..	..	..	..	..	..	Estimate of Rs. 11,570 sanctioned in G.O., No. 599 W., dated 4th March 1884. Item No. 1 of class B works, budget of 1884-85.
	Do. ..	Do. ..	2	Armourer's shop for the British infantry regiment.	B.	..	5,000	5,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	3	Drainage of fort and barracks	B.	..	10,000	10,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	4	Wash-house outside the barracks	B.	..	2,500	2,500	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	5	Garrison bazaars to be done away with and new cook-houses to be built on its site, in the meantime the kitchens to be better ventilated.	B.	..	4,500	4,500	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	6	New barracks for Royal artillery	A.	30,000	..	30,000	..	..	..	..	..	..	..	Estimate of Rs. 1,35,050 sanctioned in G.O., No. 288 W., dated 4th February 1884. Item No. 1, class A works, budget of 1884-85.
	Chingleput ..	St. Thomas' Mount	7	Coffee shops, three in number, one for each—north, south and the new artillery barracks.	B.	..	9,000	9,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	8	Constructing six blocks of stables for two field batteries of Royal artillery.	A.	10,160	..	10,160	..	..	..	..	..	..	..	Estimate of Rs. 20,160 sanctioned in G.O., No. 2747 W., dated 1st October 1883. Item No. 1 of class B works, budget of 1884-85.
	Do. ..	Do. ..	9	A wheeler and collar maker's shop for the new double-storied barracks.	B.	..	5,000	5,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Pallavaram ..	10	One mortuary room for each of the three hospitals, Nos. 1 to 3.	B.	..	3,000	3,000	..	..	..	..	..	..	..	Do.
	Presidency ..	Bangalore ..	11	Additions to the military prison	B.	..	8,325	8,325	..	..	..	..	..	..	..	Estimate of Rs. 8,325 sanctioned in G.O., No. 958 W., dated 5th April 1884.
	Do. ..	Do. ..	12	Quarters for a school master and mistress, Royal artillery.	B.	..	6,200	6,200	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	13	Fourth-class gymnasium	B.	30,000	..	30,000	..	..	..	..	..	..	..	Estimate of Rs. 44,600 sanctioned in G.O., No. 1660, dated 21st June 1876.
	Bellary ..	Bellary ..	14	Water supply to barracks, Royal artillery and British infantry.	B.	..	3,000	3,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	15	Alterations and additions to the military provost prison in the fort and to the adjoining disused liquor godowns.	B.	..	11,260	11,260	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	16	Swimming bath for 2nd battalion, Royal Fusiliers.	B.	..	12,600	12,600	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	17	New gun shed with collar maker's and wheel shop combined for the Royal artillery.	B.	..	5,663	5,663	..	..	..	..	..	..	..	Estimate of Rs. 5,663 sanctioned in G.O., No. 914 W., dated 3rd April 1884.
	Do. ..	Do. ..	18	Infectious disease ward and cook house for the station hospital.	B.	..	6,140	6,140	..	..	..	..	..	..	..	Estimate of Rs. 6,140 sanctioned in G.O., No. 320 W., dated 7th February 1884. Estimate awaited.
	Nilgiri ..	Wellington ..	19	Additional hospital accommodation for women and children.	B.	..	5,000	5,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	20	Gymnasium	B.	..	21,835	21,835	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	21	Drinking water to be laid on to hospital ..	B.	..	5,000	5,000	..	..	..	..	..	..	..	Estimate of Rs. 1,31,610 sanctioned in G.O., No. 630 W., dated 3rd March 1884. Item No. 2, class A works, budget of 1884-85.
	Coimbatore ..	Malapuram ..	22	Barracks for detachment, British infantry ..	A.	40,000	..	40,000	..	..	..	..	..	..	..	Estimate of Rs. 4,690 sanctioned in G.O., No. 418, of 10th February 1876.
	Do. ..	Cannanore ..	23	Plunge bath on standard plan for European infantry barracks.	B.	..	4,690	4,690	..	..	..	..	..	..	..	Estimate of Rs. 2,780 sanctioned in G.O., No. 1056, dated 4th April 1879.
	Do. ..	Do. ..	24	Improving latrines for the British infantry ..	B.	..	2,780	2,780	..	..	..	..	..	..	..	Estimate awaited.
Accommodation for troops—Buildings for native troops.	Vizagapatam ..	Vizianagram ..	25	Regimental store-room including storage for the camp equipage.	B.	..	6,000	6,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	26	Three public latrines for the use of the native infantry regiments.	B.	..	3,150	3,150	..	..	..	..	..	..	..	

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1884-85—*contd.*

Head of Classification.	Executive Division.	Locality.	Item No.	Particulars of Work.	Class.	Original Works: Major Works: Works in progress.	Original Works: Major Works: New Works.	Original Works: Major Works: Total.	Original Works: Minor Works.	Original Works: Total.	Repairs.	Establishment.	Tools and Plant.	Surveys.	Grand Total.	Remarks.
Accommodation for Troops, Public Offices, &c.	Presidency	Madras	17	Additional barrack accommodation for native troops	B.	Rs.	Rs. 27,100	Rs. 27,100	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
	Do.	Do.	18	Additional barrack accommodation for Regimental Bazaars	B.		4,000	4,000								
	Do.	Do.	19	Additional barrack accommodation for native infantry	B.		35,357	35,357								
	Do.	Do.	20	Additional barrack accommodation for native infantry regiment	B.		14,610	14,610								
	Do.	Do.	21	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Chingleput	Poonamallee	22	Additional barrack accommodation for Regimental Bazaars	B.		33,000	33,000								
	Do.	Do.	23	Additional barrack accommodation for Regimental Bazaars	B.		4,500	4,500								
	Do.	Do.	24	Additional barrack accommodation for Regimental Bazaars	B.		4,500	4,500								
	Do.	Do.	25	Additional barrack accommodation for Regimental Bazaars	B.		2,693	2,693								
	Do.	Do.	26	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	27	Additional barrack accommodation for Regimental Bazaars	B.		2,640	2,640								
	Do.	Do.	28	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	29	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	30	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	31	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	32	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	33	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	34	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	35	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	36	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	37	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	38	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
	Do.	Do.	39	Additional barrack accommodation for Regimental Bazaars	B.		3,000	3,000								
Ordnance Works.	Presidency	Fort St. George	40	Additional Powder Magazine	A.		30,000	30,000								
	Do.	Do.	41	Additional barrack accommodation for native infantry regiments	B.		3,630	3,630								
	Do.	Do.	42	Additional barrack accommodation for native infantry regiments	B.		5,000	5,000								
	Do.	Do.	43	Additional barrack accommodation for native infantry regiments	B.		3,000	3,000								
	Do.	Do.	44	Additional barrack accommodation for native infantry regiments	B.		3,140	3,140								
	Do.	Do.	45	Additional barrack accommodation for native infantry regiments	B.		3,150	3,150								
	Do.	Do.	46	Additional barrack accommodation for native infantry regiments	B.		21,140	21,140								
Commissariat Buildings.	Chingleput	Poonamallee	47	Additional barrack accommodation for native infantry regiment	B.		14,610	14,610								
	Do.	Do.	48	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	49	Additional barrack accommodation for native infantry regiment	B.		2,693	2,693								
	Do.	Do.	50	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	51	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	52	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	53	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	54	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	55	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	56	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	57	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	58	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	59	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	60	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	61	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	62	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	63	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	64	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	65	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	66	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	67	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	68	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	69	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	70	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	71	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	72	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	73	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	74	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	75	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	76	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	77	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	78	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	79	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	80	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	81	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	82	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	83	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	84	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	85	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	86	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	87	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	88	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	89	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	90	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	91	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	92	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	93	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	94	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	95	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	96	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	97	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	98	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	99	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	100	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	101	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	102	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	103	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	104	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	105	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	106	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	107	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	108	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
	Do.	Do.	109	Additional barrack accommodation for native infantry regiment	B.		3,000	3,000								
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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 1885-86—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what crops, departments, needed.	Approximate Estimate of Cost.	Remarks by the Standing Barrack Committee as to the necessity of the buildings; references to former Applications, Orders of Government, &c.	Remarks by the Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
		Royal Artillery—cont.	Rs.			
	Wellington ...	Removing the present concrete floors of latrines Nos. 1, 2, 3, 4, and 5 barracks and school block and relaying the same with 12-inch square tiles.	1,680	G.O., No. 1472, dated 4th June 1874. G.O., No. 1812, dated 9th June 1874. Very necessary.	Recommended	Necessary.
	Do. ...	Bath-rooms to Nos. 1, 2, 3, 4 and 5 blocks for Pay Sergeant.	2,350	Necessary	Much required and very necessary.	Very necessary.
	Do. ...	Brick-tile flooring instead of present concrete to cover passages from married quarters to latrine.	1,000	.....	The flooring of these passages with tiles would eventually be a saving to the Government.	Do.
	Do. ...	Purveyor stores to be enlarged, as the space is insufficient for bedding, clothing and furniture.	2,000	Do.	The storage space is at present quite insufficient, I therefore recommend the outlay.	Do.
	Do. ...	Supplying seven cooking stoves to Staff Sergeant's quarters similar to those to married quarters.	600	.....	Recommended	Do.
		Parade Barracks.				
	Bangalore ...	Latrine to native followers ...	1,600	Necessary	Very necessary; they have now a small latrine built by the regiment.	Do.
	Do. ...	Transport Department.—Converting Sergeant's quarters into Sub-Conductor's quarters.	1,000	Very necessary as the present quarters are very small.	A necessary requirement ...	Do.
		12th Royal Lancers.				
	Do. ...	Latrine with six seats for use of men while at stables.	600	Considered necessary	Very necessary	Necessary.
	Do. ...	To have a cook-house built for a coffee shop.	250	Desirable; brought forward for the first time.	Very much required	Very desirable.
Bangalore Division—*cont.*		*Camp Equipage Godowns.*				
	Do. ...	Laying down one-inch water-pipe from main pipe to Camp Equipage stores, length 830 feet.	1,170	Considered it necessary in case of fire, damp, or other accident, as the building is isolated from the barracks and contains nearly the whole of the camp equipage of the station (brought forward for the first time).	Very necessary, the original pipes *(sic)* when these buildings ceased to be barracks. I consider the estimate greatly over drawn.	Desirable, but cost seems excessive.
		Commissariat Department.				
	Do. ...	Alterations to Staff Sergeant's quarters (2) by raising floor and roof.	2,000	Very necessary on sanitary grounds as the building is very low and floor lower than the surrounding grounds.	Urgently required for sanitary reasons.	Very necessary.
		South Station Hospital.				
	Do. ...	Stabling for Apothecary's quarters.	400	Necessary; brought forward for first time.	Desirable	Necessary.
		15th Regiment Native Infantry.				
	Do. ...	I. Place of arms; light from roof. II. Modification of doors, windows, and arm racks for a regiment of 8 companies in lieu of 10 companies. III. Surface V drains round building. IV. Place of arms enlarged. Prisoner's room. V. Native Infantry Hospital ...	700	Desirable; brought forward for the first time.	These improvements are very necessary.	Do.
		Parade Barracks.				
	Do. ...	Lining with stone the drain east and west of barrack limits.	1,538	G.O. No. 2755 W., dated 5th July 1878. Desirable.	It is desirable to have these drains constructed; a good size V drain would answer the requirement.	Necessary as advised by Officer Commanding.
		Commissariat Department.				
	Do. ...	To build or render present building used as such (but built for a native) quarters for the station butcher.	525	Desirable; sanctioned when funds are available.	Urgently required; the present building is quite unsuitable for the residence of an European.	Very necessary.

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 1885-86—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, needed.	Approximate Estimate of Cost.	Remarks by the Standing Barrack Committee as to the necessity of the buildings; references to former Applications, Orders of Government, &c.	Remarks by the Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
Bangalore Division—*cont.*		*Commissariat Department*—cont.				
	Bangalore ...	To improve the road leading from slaughter-house to circular road, cavalry barracks, to enable meat-carts to travel to and fro without breaking down and injuring meat by jolting.	1,400	Necessary; sanctioned when funds are available.	It is very necessary that this road should be put in thorough repair; could be done for half the cost by Sapper labor.	To be done by Sappers as soon as funds are provided.
		Royal Horse Artillery.				
	Do. ...	Boarding floor of recreation room.	1,240	Brought forward for the first time.	Desirable.	When funds are available.
		Arsenal.				
	Fort St. George.	A verandah to Section II, VI and VII, Store.	400	Very much needed for the storage of serviceable fire engines which are now kept out.	Recommended.	Approved.
	Do. ...	A store-room in the forge workshop.	520	Very much needed, the present one being too small.	Do.	Do.
	Do. ...	Railings to miscellaneous workshop and a door between them and armourer's shop.	790	Very much needed.	Do.	Do.
	Do. ...	A shed in the new park	440	Very much needed for painting canvas.	Do.	Do.
	Do. ...	A new bridge across the trench in new park.	810	Very much needed; but if outer works are demolished the bridge will not be required.	Now recommended as it has been decided that the outworks be not demolished—*Vide* G.O., 5th July 1884, No. 3227.	When funds are available.
District.	Do. ...	A good water tap for the quarters of the Superintendent of Fire Engines.	200	Very much needed	Recommended	Approved.
Eastern	Do. ...	The verandah of the European Infantry Officer's Mess-house to be extended.	1,900	Required, as the present verandah is too small.	Recommended. The mess-house has a very small verandah and would be much improved by a verandah along the surface of the building.	Do.
	Do. ...	"I" room, inner and outer compartments, be adopted for theatrical performances for British Infantry.	1,000	Very desirable	Recommended	Do.
		Station Hospital.				
	Madras ...	Two huts for the reception of infectious cases in the compound of Station Hospital. The huts should be capable of holding three beds for the treatment of cases among the men, and two beds for women, and should according to regulation contain 7,200 cubic feet of space and 4,800 cubic feet, respectively. They should be about 20 feet long by 20 feet broad by 18 feet high, and 18 feet long by 18 feet broad by 15 feet high, respectively.	750	At present all cases of infectious disease have to be isolated and treated in tents; this arrangement is fairly satisfactory during the cold months of the year, but during the hot weather it is most undesirable, as the tents become so hot that it is injurious to the men to be kept in them.	Do.	Recommended.
		Body Guard.				
	Do. ...	Dispensary for veterinary department for Body Guard.	1,300	Necessary	Do.	When funds are available.
		Native Infantry Lines, Perambúr.				
	Do. ...	A new regimental school at the Perambúr Lines.	1,375	Much required; estimate for Rs. 1,375 for converting Staff Sergeant's quarters, No. II, into a school-house for Native Infantry Regiment at Perambúr sanctioned when funds are available. G.O., No. 312 W., dated 6th February 1884.	Do.	Approved.

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 1885-86—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, needed.	Approximate Estimate of Cost.	Remarks by the Standing Barrack Committee as to the necessity of the buildings; references to former Applications, Orders of Government, &c.	Remarks by the Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
		Native Infantry Lines, Perambúr—cont.	Rs.			
	Madras ...	An armourer's shop	2,000	The present armourer's shop is not on the standard plan and have no facilities for browning arms which has to be done in the open.	Recommended	When funds are available.
		Native Infantry Lines, Rávapuram.				
	Do. ...	One latrine on the north side of the regimental lines at Rávapuram.	1,200	Latrine on the south side has been completed, that on north side is required.	Do.	Recommended.
		Gun Powder Factory.				
	Do. ...	Breaking-down house ... ... 1 Breaking-down machine ... ... 1 house for 6 horse-power engine and boiler.	500	G.O., No. 59 of 7th January 1874.	Recommended as being apparently portion of the scheme for the thorough renewal of Gun Powder Factory—*vide* items in the list of major works.	Approved.
	Do. ...	Powder Magazine. Wooden flooring and thorough repair.	1,100	G.O., No. 1501 of 31st March 1875.		Do.
		Commissariat Department.				
	Do. ...	A detached godown for the storage of wheat with verandahs on both sides in the Government Bakery.	1,785	There is no place at present should emergency demand the storage of wheat without endangering the safety of the bread stuffs by the introduction of weevils into the main building. Estimate sanctioned, G.O., No. 1868 W., dated 5th July 1883, Public Works.	Recommended	Do.
District—*cont.*	Do. ...	The levelling of the bakery compound and a system of drainage to carry off the washing of the bakery.	950	There is no drainage water-lodges, and for sanitary purposes it is necessary that the ground should be levelled and a proper system of drains laid down.	Do.	When funds are available.
Eastern	St. Thomas' Mount.	Sinking a well, erecting a moat and trough apparatus, public cattle depôt.	1,200	Required in the public cattle depôt in consequence of there being no water nearer than a tank 250 yards distance from the lines, which, in the hot season, is perfectly dry; during the period the bullocks have to be taken to the river for water.	Recommended	Do.
	Do. ...	Improvements to the lightning conductor to expense magazine, Royal Artillery.	1,500	It is absolutely necessary, the present one having been condemned by the Telegraph Department.	Do.	Most important.
	Pallávaram ...	An armourer's workshop for Native Infantry Regiment.	820	At present none	Do.	Approved.
	Do. ...	Store-room for regimental camp equipage for the use of Native Infantry Regiment.	1,500	Do.	Strongly recommended; much needed; the old dâk bungalow is at present used as a store-room.	Do.
	Do. ...	Tiled shed suitable for the accommodation of about 250 sepoys from Madras during the musketry season, and recruits at other times at Meenumbaukum.	...	At present none. Urgently required.	The well is recommended, but the erection of a tiled and permanent shed is not recommended as it does the men good to camp out every now and again.	Well approved; sheds unnecessary.
	Do. ...	Sinking a well at do.	318			
	Poonamallee...	Lightning conductors on the new hospital.	1,800	Very urgently required; the building is about the highest point in the station.	Recommended	Most important.
	Do. ...	North-east block, old barracks, required to be converted from married into single quarters.	1,000	When a large party of men arrive in the station a portion have to be accommodated in the men hospital wards.	Can only be converted when the new family quarters are completed and if it is decided to maintain Poonamallee as a depôt.	When funds are available.
	Do. ...	New family quarters. Required a wall to shut off the new married quarters from main road.	1,000	.....	Recommended if the depôt is to be maintained.	Approved.
	Vellore ...	School-house for a Native Infantry Regiment. Materials only being supplied by the Public Works Department.	2,150	This building is very much needed for the use of the regiment in garrison, as the Mahal in the fort, at present occupied as a school, is at a considerable distance from the lines.	Much needed; construction of a school-house has been sanctioned for execution when funds are available. G.O., No. 318 W., dated 7th February 1884.	To be constructed by the men.

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 1885-86—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, needed.	Approximate Estimate of Cost.	Remarks by the Standing Barrack Committee as to the necessity of the buildings; references to former Applications, Orders of Government, &c.	Remarks by the Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
		Commissariat Department—cont.	RS.			
	Vizianagrum...	Bath-room for hospital of the Native Infantry Regiment.	360	Much required, there being no accommodation which could be used for the purpose.	Recommended	Approved.
	Do. ...	Hospital wall to be completed ...	286	Present wall encloses three sides of the hospital, while on the fourth side, and nearest the regimental lines, there is none. If wall is completed all ingress and egress will be confined to the regular entrance, and a better watch kept over the movements of patients.	Do.	When funds are available.
	Do. ...	Powder Magazine with surrounding walls on standard pattern.	1,990	Much required, the present magazine having been condemned and have no protecting walls round it. The shelves being built into the walls are continually attacked by whiteants.	Do.	Approved.
	Do. ...	Armourer's workshop	900	Much required; the work has been sanctioned. G.O., No. 1111, dated 17th April 1883. Progress of work stopped on account of famine in 1877 and not since completed.	Do.	Do.
District—*cont.*	Berhampore ...	School-house for a Native Infantry Regiment. Materials only being supplied by the Public Works Department.	960	A school-house is absolutely required for the use of the regiment, the present building (regimental property) having fallen in and being utterly unsuited for the purpose. G.O., No. 1551 W., dated 20th June 1884.	Do.	To be constructed by the men.
Eastern	Cuttack ...	School-house for a Native Infantry Regiment. Materials only being supplied by the Public Works Department.	2,162	The school is temporarily occupying a place for cleaning arms where the accommodation is insufficient.	Do.	Do.
	Vizianagrum.	A small public latrine near the barrack buildings.	300	Required for the use of men of the guard and men at school or on duty, the regimental lines being about half a mile distant.	Do.	Recommended.
Western District.	Cannanore ...	Station Hospital. Sinking a well.	700	Much required. The water-supply is very scanty during the hot weather.	Strongly recommended ...	Strongly recommended.
	Do. ...	European Infantry. Replacing the present flooring of the European Infantry cells with concrete in chunam and asphalte.	1,100	Recommended. The present laterite flooring is in a very bad state—*vide* G.O., No. 1675 W., dated 5th July 1884.	Recommended	Recommended.
	Do. ...	Ordnance Department. Raising the parapet of the magazine redoubt on a level with its eaves and moving the guard-room from inside to outside the ditch.	1,900	Desirable as a precautionary measure.	Do.	Very desirable.
	Do. ...	European Infantry. Replacing the laterite flooring of the recreation room with concrete in chunam and asphalte.	2,140	Recommended. The laterite perishes rapidly—*vide* G.O., No. 1675 W., dated 5th July 1884.	Recommended, but not very urgent.	Recommended.
	Do. ...	European Infantry. Replacing the present wooden railings round the barracks with open laterite work.	639	Recommended on economic grounds. The wooden railings are expensive and require constant removal.	Recommended	Do.
	Malapuram ...	European Infantry. The sick cart-shed to be rebuilt.	1,550	Present shed is dangerous, being of thatch. G.O., No. 2590 W., dated 4th October 1882.	The present shed is in ruins and the site is required for a ward for contagious diseases. Recommended.	An inexpensive shed should suffice.
	Mangalore ...	Substituting asphalte in room of chunam floors in wards and surgery of hospital, 33rd Regiment Native Infantry.	695	Recommended on sanitary grounds.	Recommended	Recommended.

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 1885-86.—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, needed.	Approximate Estimate of Cost.	Remarks by the Standing Barrack Committee as to the necessity of the buildings; references to former Applications, Orders of Government, &c.	Remarks by the Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
Western District—*cont.*		*Barracks—Native Infantry.*	Rs.			
	Mangalore ...	Forge troughs and cupola to the armourer's workshop; also a screen as per clause E, paragraph 13 of G.O. C.C., No. 12, dated 12th February 1874.	790	Original estimate for 500 sanctioned—*vide* G.O., No. 2133, dated 13th Sept. 1876; G.O., No. 2590 W., dated 4th October 1882.	Recommended	Recommended.
	Quilon ...	Native Infantry. An armourer's shop.	1,700	Much needed; the existing building is unsuited to present requirements. Browning arms cannot be carried on.	Not urgent	When funds are available.
		Royal Artillery and British Infantry.				
Under Execution.	Bellary ...	Completion of system of drainage from wash-houses and family quarters.	1,500	Entered in last year's list as a major work. The estimate has since been reduced and sanctioned in G.O., No. 1125 W., dated 6th May 1884.	Much needed and about to be carried out.	Very necessary.
		Station Hospital.				
	Bellary ...	A compound wall with two gates to enclose the female hospital attached to the Station Hospital.	1,300	Entered in last year's list; much needed. Sanctioned in G.O., No. 3662 W., dated 20th December 1883.	Much required to ensure privacy to the patients.	When necessary.
		2nd Cavalry.				
	Do. ...	Permanent shoeing shed or suitable forage.	480	Much wanted as there is no proper place in which the farrier can make shoes.	A building of some sort is certainly required.	Suitable forge necessary.
Districts—*cont.*		*25th Regiment Native Infantry.*				
	Do. ...	A new well to be dug	500	Greatly required. There is at present only one well for the use of the corps and the water from this is stated by the Medical Officer to be full of organic matter and impurity.	This is much required. This regiment has only two wells from which to draw drinking water, of these, one "The Subadarbeb" fails every summer. It is now being deepened but does not promise well. The water is of doubtful quality.	Very necessary.
Ceded		*27th Regiment Native Infantry.*				
	Do. ...	Latrine 35' long by 18' wide for use of the left half battalion.	600	Entered in last year's list. The estimate was then Rs. 1,500 and was considered by His Excellency the Commander-in-Chief as excessive. The latrine is very much required.	This is much wanted	Necessary.
		Commissariat Department.				
	Do. ...	Floor of the bran, flour, bread and store-rooms and of the office to be asphalted.	670	Would be a very great improvement. The Executive Commissariat Officer complains that the contents of the rooms are damaged by rats, &c.	This would be a great improvement.	When funds are available.
		Barrack Department.				
	Do. ...	Servants' house and stables for Barrack Sergeant's quarters.	336	Very much required. Sanctioned in G.O., No. 3181, dated 29th June 1882.	Very much wanted	Very necessary.
		Total ...	80,194			

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OOTACAMUND,
3rd October 1884.

(Signed) A. G. HUTCHINS, Major,
Offg. Dy. Quartermaster-General.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

2554/2557

21st January 1881, No. 167 W.

General.
Account.

Read the following paper :—

No. 123. From Colonel J. J. McLEOD INNES, R.E., Deputy Secretary to the Government of India, Public Works Department, (Account—General), to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 11th January 1881, No. 32 A.—G.

WITH reference to entry 1 in the accompaniment to Proceedings of the Government of Madras, Nos. 2,808-9 W., dated 7th December 1880, I am directed to point out the "Schedule of Demands" for Imperial works is ordinarily due in the Government of India Secretariat on the 10th October and not on the 25th September of each year, and that, under the order quoted in the margin, the Directors-General of Telegraphs and Post Office in India are already required to submit their returns for incorporation in the demands of local Governments by the 10th September, or one month previous to the date on which these latter are due in the office of the Government of India.

Public Works Department Resolution Nos. 422/39 A.—G., dated 7th August 1873.

No. 124. ORDER THEREON, 21st January 1881, No. 167 W.

RECORDED.

2. The dates will be altered accordingly. The schedules will thus be due in the Public Works Secretariat, Madras, on the 10th September, and in the Government of India Secretariat on the 10th October.

3. The original date of 25th September was adopted from Government of India letter No. 563 A.—G., dated 15th August 1874.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Military Department.
" Revenue "
" Marine "

Exd. S. T. Austin
Spare Copies

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GENERAL.
ACCOUNT.

Govt. of 1881 Madras.

PUBLIC WORKS.

To

THE MILITARY DEPARTMENT,

&c., &c., &c.

Dated January, 21st.

Issued

Recd. *Encl.*

G. O., 21st January 1881, No. 197 W.

JANUARY.

Nos. 123-124.

Schedule of Demands.—Letter from the Government of India regarding the dates of submission of the —, recorded with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

2554/2557

General.
Account.

READ—the following papers:—

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 6th August 1884, No. 1737.

I have the honor to request that a sum of Rs. 15,960 may be allotted under Repairs, Military, in the Presidency division, for the payment of the municipal tax on military buildings for the year 1884. This large amount cannot be paid from the grant for Repairs without serious inconvenience and the postponement of necessary work.

From A. T. ARUNDEL, Esq., President, Municipal Commission, Madras, to the Chief Secretary to Government, dated Madras, 25th July 1884, No. 847.

With reference to the enclosed correspondence between this office and the Executive Engineer, Presidency division, I have the honor to request that Government will be pleased to order the payment of the municipal taxes on military buildings for the current year. These taxes are as follows:—

			RS.	A.	P.
House, water, and lighting taxes ...	1st half of 1884	...	7,953	4	2
	2nd do.	...	7,956	8	0
	Total ...		15,909	12	2

2. Up to last year the amount due on all Government buildings, civil and military, was paid by the Collector of Madras. The Accountant-General, however, by circular, No. 42, dated 14th September 1883, requested that the demands against military buildings might be sent direct to the Executive Engineer, Presidency. The latter, in the first instance, objected to the amount of the tax, which, however, has become fixed in the absence of a formal appeal, and he now represents that there are no funds at his disposal from which to meet the demand.

3. In my letter, No. 763, dated 27th June 1884, I addressed Government with regard to the delay this year in payment of the taxes due on civil as well as on military buildings.

ENCLOSURES.

From Captain R. E. HAMILTON, R.E., Executive Engineer, Presidency Division, to the President, Municipal Commission, Madras, dated Bangalore, 12th July 1884, No. 2078.

With reference to your letter, No. 471, dated 15th March 1884, I have the honor to state that I have valued all the military buildings in Madras and find that the taxes amount to Rs. 6,411-8-7.

2. I am therefore unable to forward you a cheque for Rs. 7,983-4-2, and have forwarded the papers connected with the subject for orders of the Superintending Engineer.

From A. T. ARUNDEL, Esq., President, Municipal Commission, Madras, to the Executive Engineer, Presidency Division, Bangalore, dated Madras, 14th July 1884, No. 796.

In reply to your letter, No. 2078, dated 12th July, I have the honor to inform you that the valuation of the military buildings in question cannot be altered for the current year. If you consider the valuation too high, it will be open to you, on behalf of Government, to file, under

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section 130 of the Municipal Act, I of 1884, an appeal in this office against the valuation and assessment for 1885 before a date which will be duly notified in the *Fort St. George Gazette*. As no such appeal was made for the current year, the assessment has, by section 196 of the Act, become final.

2. I beg therefore that you will be good enough to forward to me the amount of the tax, viz., Rs. 7,953-4-2, which has been long overdue.

From Captain R. E. HAMILTON, R.E., Executive Engineer, Presidency Division, to the President, Municipal Commission, dated Fort St. George, 19th July 1884, No. 101-A.

I have the honor to acknowledge your letter, No. 796, dated 14th July 1884.

2. I understand from paragraph 1 of your letter under reply that the tax to be paid for the current year is Rs. 7,983-4-2.

3. I do not, however, now see my way to paying this amount. There is no provision that I am aware of in the military budget for tax on military buildings, and it certainly cannot be met from the grant for ordinary repairs which is the same this year as formerly.

4. The latest Government order I have on the subject is No. 2521 W., dated 8th September 1883. If there is a later one, I should be much obliged if you would furnish me with a copy of it.

5. I have addressed the Examiner, Public Works Accounts, asking him if there is any provision for payment of taxes in the military grant of this year for the Presidency.

No. 1729, Financial.

Transferred to the Public Works Department for issue of early orders.

(By Order.)

OOTACAMUND,
1st August 1884.

(Signed) H. TREMENHEERE,
Acting Assistant Secretary.

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepák, 8th August 1884, No. 1768.

In returning the enclosures of your endorsement, No. 433 E., dated 5th instant, I have the honor to report that the military buildings for which tax is demanded are within the municipal limits of Madras, and to meet this demand I have applied for an allotment of Rs. 15,960 in my letter, No. 1737, dated 6th instant.

2. There seems, however, to be an error in this amount. The Executive Engineer, in his letter to the Municipal President, of the 12th ultimo, quotes the demand as Rs. 7,983-4-2, instead of Rs. 7,953-4-2 for the half-year: whereas the actual demand is for Rs. 15,909-12-2 for the whole year.

ORDER—dated 12th September 1884, No. 2244 W., Public Works.

There are no funds at the disposal of Government to meet this charge. The Government of India will be accordingly requested to make a special grant under Imperial Military Works.

(Here enter No. 2245 W., dated 12th September 1884.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.
„ Financial Department.

Exd. E. Fernandez.
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2534/2557

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GENERAL.
ACCOUNT.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated September, 12th.

Read. *Encl.*

G.O., 12th Sept. 1884, No. 2244 W,

SEPTEMBER.

Municipal Taxes on Military Buildings at Madras

Ordered that the Government of India be requested for a special grant under Imperial Military Works to meet — for 1884.

2556/2557

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

COLONEL J. SHAW-STEWART, R.E.,

Secretary to the Government of Madras,

Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

MILITARY DEPARTMENT.

SIR,

I am directed to forward the accompanying correspondence, from which it will be observed that, under the ruling * of the Government of India transferring to the Military Works budget grant all charges on account of municipal taxes on military buildings, a liability amounting to nearly Rs. 16,000 has now to be met by the Public Works Department for taxes on military buildings within the municipal limits of Madras for the year 1884.

* *Vide* your letter, No. 446 S.C, dated 5th July 1883.

2. As the demand has arisen long after the issue of the budget estimate of the current official year, no provision was made to meet it. His Excellency the Governor in Council is accordingly compelled to ask the Government of India for a special grant; there being no funds available under Military Works, and no means of providing any except by reduction of allotments for works in progress,—a step which the Government trust they may not be compelled to take, as the small sum placed at their disposal is already insufficient to meet the urgent demands made upon them.

3. In framing the budget for 1885-86, provision will be made to meet charges of this character.

I have the honor to be,

Sir,

Your most obedient servant,

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

OOTACAMUND,
12th September 1884.

Exd. E. Fernandez.
Spare Copies

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GENERAL
ACCOUNT.

Govt. of | 1884 | Madras.

PUBLIC WORKS.

Dated September, 12th.

Read. *Encl.*

12th Sept. 1884, No. 2245 W.

SEPTEMBER.

Municipal Taxes on Military Buildings at Madras

The Government of India asked for a special grant under Imperial Military Works to meet — for 1884.

2558/2557

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Fort St. George, 22nd October 1883, No. 7336 :—

In continuation of this office letters, Nos. 7094 and 7151, dated 11th and 13th instant, respectively, forwarding schedules of major and minor works to be provided for in the Public Works budget of 1884-85, I have now the honor to annex a list of the more important major works, classified as per margin, and entered in the order of their urgency, which His Excellency the Commander-in-Chief would wish submitted for the special consideration of Government with the following observations.

Class A.—Works actually in progress, to complete which grants are wanted.
Class B.—Urgent works not yet commenced, for which grants are requisite.

2. *Class A.*—These works being all in actual progress, nothing need be said in regard to the necessity of suitable grants being allotted for their completion.

3. *Class B.*—As estimates for the first two items in this list have been submitted it may be presumed that the grants originally made to them in the preliminary issue of the current year's budget, but subsequently withdrawn by the Government of India, will be shortly re-allotted, so that by the opening of next year they will belong to Class A.

4. It appears probable that item No. 3, bakery at Wellington, will similarly belong to Class A by next year; but in case any unforeseen delay should retard the estimate, the Commander-in-Chief would suggest that the grant for it may not be allowed to lapse, but be obtained for transfer to either item No. 4 or item No. 5 (for both of which estimates have been submitted), works which His Excellency considers of the highest importance.

5. The importance of item No. 6, quarters for warrant and non-commissioned officers of the Commissariat Department at Madras, has already been strongly urged, and from reports of medical officers it is evident that these men continue to occupy their present dwellings in Black Town, only with the greatest danger to their health.

6. Accommodation for a Native Infantry Regiment at Bangalore, item No. 7, is urgently required to provide for the 14th Native Infantry on its return from the Bengal Presidency; and it seems as well here to note that whatever station the regiment might have been sent to, this accommodation would be necessary for it. Plans and estimates for this item have been called for, so that they may be completed by the time the final issue of the budget is made.

7. Stabling for Batteries, Royal Artillery, at St. Thomas' Mount, item No. 8, is a work which has found a place in so many previous lists, and is, in the Commander-in-Chief's opinion, so desirable that it is hoped nothing will be allowed to interfere with its part execution next year.

8. Items 9 and 10, improvements in water-supply and drainage arrangements to the barracks of British troops at Bellary, are works strongly urged on the Commander-in-Chief by the medical authorities, and their importance in connection with the health of the troops requires that they should receive early attention.

9. Items 11, 12, and 15 have appeared in previous year's lists, but have held to give place to more immediately important works; they are, however, of real importance, and should not be delayed.

16 40

10. Item No. 14, accommodation for a third Native Infantry Regiment at Trichinopoly, finds a place in this list in anticipation of the return from Beluchistan of the 1st Native Infantry, for it is most undesirable that the regiment should take up the buildings now occupied by the 30th Native Infantry, in which cholera has shown itself in each of the past two years, and it will accordingly have to build lines for itself at once, for which lines these public buildings will be requisite.

11. All the other works entered in the schedule first furnished from this office are considered to be really requisite, and it is only because an undue demand for funds would have to be made in connection with them that His Excellency does not include them in the list of Class B works, with which the present remarks deal.

12. Sir Frederick Roberts trusts that what has been said above will satisfy Government of the necessity for making a strong appeal to the Government of India for a specially liberal grant for military works in the coming year, so that none of the many important original works included in Class B may be allowed to stand over any longer.

ENCLOSURES.

CLASS A.—Works commenced, for completion of which grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				RS.	
Eastern District.	Madras ..	1	Gunpowder mills, alterations and additions to.	2,24,105	
	Do. ..	2	Coast batteries, completion of ..	42,320	
	Do. ..	3	Armament, Fort St. George, mounting of, &c.	19,350	
	St. Thomas' Mount.	4	Barracks, Royal Artillery, completion of.	1,40,350	
Ceded Districts.	Bellary ..	5	Stables for field battery, completion of.	9,570	
Western District.	Cannanore ..	6	Bakery, conversion of old stables into.	8,270	
	Malapuram ..	7	Barracks for detachment ..	90,830	

CLASS B.—Works of special urgency not yet commenced, for which grants are absolutely requisite.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				RS.	
Eastern District.	Madras ..	1	Gymnasium, BritishInfantry, Fort St. George.	9,500	Rs. 5,000 allotted in preliminary issue of budget, but subsequently withdrawn.
Bangalore Division.	Bangalore ..	2	Accommodation, Native Cavalry Regiment.	29,600	Rs. 15,000 do. do.
	Wellington ..	3	Bakery for depôt	20,000	Merely approximate sum—See G.O., No. 2563 W., dated 22nd September 1883 (M.D. No. 5401, dated 5th October 1883). Rs. 8,000 withdrawn.
	Bangalore. ..	4	Entrenchment	16,100	G.O., M.D., No. 5231, dated 26th September 1883.
	Trichinopoly.	5	Ordnance depôt	16,780	
			Accommodation, one Native Infantry Regiment.	17,200	Rs. 10,000 asked for from Government of India—*Vide* G.O., No. 2659 W., dated 21st September 1883 (M.D. No. 5347, dated 3rd October 1883).
Eastern District.	Madras ..	6	Quarters for warrant and non-commissioned officers, Commissariat Department.	26,320	
Bangalore Division.	Bangalore ..	7	Accommodation for one Native Infantry Regiment.	16,610	
Eastern District.	St. Thomas' Mount.	8	Stables for Royal Artillery, two batteries.	20,160	
Ceded Districts.	Bellary ..	9	Water-supply to barracks, Royal Artillery and British Infantry, by pipes.	3,000	
	Do. ..	10	Drainage improvements to British Infantry and Royal Artillery.	3,600	
	Do. ..	11	Armourer's shop, Light Cavalry ..	2,695	
Eastern District.	Vellore ..	12	Do. Native Infantry.	2,900	
Bangalore Division.	Bangalore ..	13	Latrines, Sappers and Miners ..	3,960	
	Trichinopoly.	14	Accommodation for a third Native Infantry Regiment.	14,280	
Western District.	Cannanore ..	15	Boarded floor to Station Hospital.	5,570	

No. 5769, Military.

Forwarded.

OOTACAMUND,
26th October 1883.

(Signed) E. L. HANKIN, Colonel,
Secretary to Government.

2556/2557

ORDER—dated 12th November 1883, No. 3183 W., Public Works.

Ordered to be forwarded to the Government of India in continuation of endorsement, No. 3003 W., dated 24th October 1883.

(Here enter No. 3184 W., dated 12th November 1883.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Military Department.

ENDORSEMENT—dated 12th November 1883, No. 3184 W., Public Works.

Forwarded.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. A. F. Goodall.
Spare Copies

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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of | 1883 | Madras.

PUBLIC WORKS.

Dated November, 12th.

Read. *Encl.*

G.O., 12th Nov. 1883, No. 3184 W.

NOVEMBER.

Military Works

List of major — in the order of their urgency for which funds are required in 1884-85.

ENDORSEMENT.

—

Appendix No. 3003 W., dated 24th October 1883.

Buildings and Roads.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Works for 1884-85.

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.	
(1) Accommodation for troops—Buildings for European troops in the plains—Permanent.				Imperial, Ordinary. *Military.*														
	Chingleput.	St. Thomas' Mount.	1	New barracks for Royal Artillery.	A	40,000	..	..	..	..			..	..	..	..	..	Estimate of Rs. 1,27,750 sanctioned in G.O., No. 1894 W., of 25th July 1882. Item No. 2, Class A Works, of Budget of 1883-84. Estimate of Rs. 90,830 sanctioned in G.O., No. 1840 W., of 18th July 1882. Item No. 3 Class A Works, of Budget of 1883-84. Estimate of Rs. 12,500 sanctioned in G.O., No. 1102 W., of 7th May 1880. Item No. 1, Class B Works, of Budget of 1883-84. Estimate awaited. Item No. 17, Appendix B, Budget of 1883-84. Estimate awaited.
	Coimbatore.	Malapuram.	2	Barracks for detachment British Infantry to accommodate 100 men.	A	40,000	..	..	..	..			..	..	..	..	..	
	Presidency.	Bangalore..	3	Alterations and additions to wash-houses for the British Infantry.	A	4,500	..	..	..	4,500			..	..	..	..	..	
	Do.	Fort Saint George.	4	A covered gymnasium to be erected in the Ball Ally of the European regiment.	A	..	9,800	9,800	..	9,800			..	..	..	..	..	
	Do.	Do.	5	An armourer's shop on the standard plan, for the European Infantry regiment.	B	..	5,000	5,000	..	5,000			..	..	..	..	..	
	Chingleput.	St. Thomas' Mount.	6	Constructing six blocks of stables for two field batteries of Royal Artillery.	A	..	20,160	20,160	..	20,160			..	..	..	..	..	Estimate of Rs. 20,160 sanctioned in G.O., No. 2747 W., of 1st October 1883. Estimate awaited. Item No. 1, Appendix B, Budget of 1883-84.
	Do.	Do.	7	Plunge-bath for Royal Artillery.	B	..	12,600	12,600	..	12,600			..	..	..	..	..	

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Accommodation for troops—Buildings for native troops in the Public Department.

Head of Classification.	Presidency Division.	Locality.	Item No.	Progress and Works.	Class	Estimated Cost.									Remarks.
						Original Works.			Major Works.			Repairs.	Repairs, Hettinge.	Tools and Plant.	Sun-dries.	Grand Total.	
						Buildings.	Minor Works.	Total.	Works in progress.	New Works.	Total.						
				Imperial Department—cont. Military—cont.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Presidency.	Bangalore	B	Garrison Artillery at the 4th class.		L	...	44,606	44,606	...	...	...	...	...	...	...	...	Estimate awaited.
Do.	Do.	3	Quarters for senior non-commissioned officers, Garrison Artillery, north station hospital.		B	...	4,320	4,320	4,820	...	...	...	...	...	...	...	Estimate awaited. Item No. 25, Appendix B, Budget of 1883-84.
Bellary	Bellary	10	Three blocks of stables for Royal Artillery at		A	...	2,000	...	2,000	...	...	...	...	...	...	...	Estimate awaited. Item No. 15, Appendix B, Budget of 1883-84.
Do.	Do.	11	Intercolonic disease ward of station hospital.		B	...	...	2,000	2,000	...	...	...	...	...	...	...	Estimate awaited. Item No. 19, Appendix B, Budget of 1883-84.
Do.	Do.	12	Pipes and cisterns to supply water from the waterworks to British troops.		B	...	...	3,000	3,000	...	...	...	...	...	...	...	Estimate awaited. Item No. 8, Appendix B, Budget of 1883-84.
Do.	Do.	13	Completion of system of drainage of washhouses and latrines for British troops.		B	...	...	2,000	2,000	...	...	...	...	...	...	...	Estimate awaited.
Cuddalore.	Cuddalore	14	Plinth-bath for Hospital Infantry.		B	...	...	4,000	4,630	...	...	...	...	...	...	...	Estimate awaited.
Do.	Madapuram.	15	Cantonments for detachment British Infantry.		B	...	...	3,000	3,000	...	...	...	...	...	...	...	Estimate awaited.
Negapatam.	Wellington.	16	Extending the existing water main pipe from the barracks square to the mounted gunners at		A	2,400	...	...	3,400	...	...	...	...	...	...	...	Estimate awaited. Item No. 3, Appendix B, Budget of 1883-84. Estimate of Rs. 3,500 sanctioned in G.O., No. 416, of 15th July 1882.
Do.	Do.	17	Gymnasium at		B	...	...	12,000	15,000	...	...	...	...	...	...	...	Estimate awaited.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Works for 1884-85—*contd.*

Schedule of the probable requirements of the Madras Presidency on account of Imperial Works for 1884-85—*cont.*

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Class.	Original Works. Major Works. Works in progress.	Major Works. New Works.	Major Works. Total.	Minor Works.	Total.	Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks.
				IMPERIAL, ORDINARY *cont.*		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
				Military—cont.												
Accommodation for troops—Buildings for native troops—*cont.*	Coimbatore.	Quilon ..	30	Magazine for Native Infantry barracks.	B.	..	3,560	3,560	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	31	Store-room for do. ..	B.	..	5,000	5,000	..	..	..	..	..	..	..	Do.
	North Arcot	Vellore ..	32	Armourers' shop for a regiment of Native Infantry.	A.	1,980	..	1,980	..	..	..	..	..	..	..	Estimate for Rs. 2,800 sanctioned in G.O., No. 1647 W., of 20th June 1881.
	Vizagapatam	Vizianagram.	33	Regimental store-room, to be included as storage for Camp Equipage.	B.	..	5,000	5,000	..	..	..	..	..	..	..	Estimate awaited.
Ordnance Works.	Presidency.	Fort St. George.	34	Mounting ordnance ..	A.	32,000	..	32,000	..	..	..	..	..	..	..	Estimate of Rs. 42,035 sanctioned in G.O., No. 2970 W., of 19th October 1883. Item No. 2, Class B Works, Budget of 1883-84.
	Do. ..	Madras ..	35	Completing the emplacements and improving the store-rooms, &c., of the coast batteries.	A.	22,300	..	22,300	..	..	..	..	..	..	..	Estimate of Rs. 42,320 sanctioned in G.O., No. 1561 W., of 13th June 1883. Item No. 34, Appendix B, Budget of 1883-84.
	Do. ..	Do. ..	36	Improvements to the gunpowder factory. Further estimates required— Glazing and dusting house, one group. Incorporating mills, one group. Drying-house. Pebble cutting house. Granulating house to be converted into a pebble cutting machine house.	A.	20,000	..	20,000	..	..	..	..	..	..	..	The last sanction brought up the total sanctions to Rs. 2,26,685, G.O., No. 2748 W., of 1st October 1883. Item No. 4, Class A Works, Budget of 1883-84. Further estimates are awaited.
Commissariat Buildings.	Do. ..	Do. ..	37	New additional compound wall. Two bridges. Improvements to the wheel shop of the gun carriage factory.	B	..	4,000	4,000	..	..	..	..	..	..	..	Estimate awaited.
	Presidency.	Guindy ..	38	Converting the late Superintending Engineer's office at Guindy into a Commissariat slaughter-house.	B	..	11,800	11,800	..	..	..	..	..	..	..	Estimate for Rs. 11,800 sanctioned in G.O., No. 1399 W., of 12th May 1883. Item No. 43, Appendix B, Budget of 1883-84.
	Do. ..	Madras ..	39	Quarters for station butcher.	B	..	4,740	4,740	..	..	..	..	..	..	..	Estimate awaited. Item No. 44, Appendix B, Budget of 1883-84.
	Do. ..	Do. ..	40	Sheds for public cattle and lines for their attendants.	B	..	20,000	20,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	41	Quarters for three warrant and five non-commissioned officers of the Commissariat department.	A	..	26,740	26,740	..	..	..	..	..	..	..	Estimate of Rs. 26,740 sanctioned in G.O., No. 1836 W., of 2nd July 1883. Item No. 45, Appendix B, Budget of 1883-84.
	Nilgiri ..	Wellington.	42	Bakery at	A	..	10,000	10,000	..	..	..	..	..	..	..	Under consideration.
	Coimbatore.	Cannanore.	43	Converting the old artillery stables at Cannanore into a bakery and sinking a well.	A	2,660	..	2,660	..	..	..	..	..	..	..	Estimate of Rs. 7,660 sanctioned in G.O., No. 2213 W., of 10th August 1883. Item No. 41, Appendix B, Budget of 1883-84.
	Do. ..	Malapuram.	44	Quarters for Commissariat staff sergeants.	B	..	4,000	4,000	..	..	..	..	..	..	..	Estimate awaited.
Fortifications.	Presidency.	Bangalore.	45	Entrenchment as place of refuge including ordnance depôt. Rs. Fortifications .. 16,000 Ordnance buildings .. .. 14,900 Laboratory .. 1,880	A	..	32,780	32,780	..	..	..	..	..	..	..	Estimates aggregating Rs. 34,280 sanctioned in G.O., No. 3060 W., of 30th October 1883.
				Total ..		1,78,300	3,67,805	5,46,605	54,660	6,01,265	3,50,000	2,18,791	14,269	..	11,84,325	

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers :—

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 9th May 1884, No. 60 A.

With reference to G.O., No. 802, dated 19th February 1884, I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, plan, &c., below-mentioned, which have been approved by the Commander-in-Chief. The plan and estimate have been countersigned :—

Amounting to Rs. 4,300, for flushing the drains of the Ráyapuram lines with Seven Wells water.

No. 2221, Military.

Approved and transferred to the Public Works Department.

(By Order.)

Ootacamund,
10th May 1884.

(Signed) A. KENNEY-HERBERT, Lieut.-Col.,
Offg. Secretary to Government.

From Colonel W. H. BURTON, R.E., Officiating Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 27th May 1884, No. 775.

1 Plan.
1 Detailed estimate.
2 Abstract estimates.
1 Report and specification.
1 Original endorsement by the Military Department, No. 2221, dated 10th May 1884, returned.

With reference to your memorandum, No. 939 A, dated 17th instant, I have the honor to return countersigned the plan and estimate of Rs. 4,300 for work necessary for flushing the drains of the Native Infantry lines at Ráyapuram with Seven Wells water.

Order—dated 4th June 1884, No. 1397 W., Public Works.

The estimate, amounting to Rs. 4,300, for providing means for flushing with Seven Wells water the drains of the Native Infantry lines at Ráyapuram, is sanctioned for execution when funds are available.

2. This sanction has been registered as Imperial Ordinary No. 56 W. of 1884-85 and classified as Military, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

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

Exd. C. Howarth.

Spare Copies

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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated June, 4th.

Recd. *Encl.*

G.O., 4th June 1884, No. 1397 W.

JUNE.

Native Infantry Lines at Rayapuram

Estimate of Rs. 4,300 *for providing means for flushing with Seven Wells water the drains of the* —, sanctioned.

24th October 1883, No. 3003 W., Public Works.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers :—

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Fort St. George, 11th October 1883, No. 7094.

I have the honor, by order, to forward herewith the schedules of Military Works, major and minor, required to be provided for in the budget list of 1884-85.

2. Sir Frederick Roberts is about to address Government in the Military Department on the subject of the several large works of importance which are, in his opinion, of special urgency, and for execution of which he hopes funds may be made available next year; but meanwhile your attention is invited to them by their entry in red ink in the schedule.

From the same Officer, dated Fort St. George, 13th October 1883, No. 7151.

In continuation of this office letter, No. 7094, dated 11th instant, I have the honor, by order, to forward a supplementary schedule of Military Major Works, providing for the construction of new barracks for the Royal Artillery at St. Thomas' Mount.

Office note from the Examiner, Public Works Accounts, dated 13th October 1883, No. 734.

Order—dated 24th October 1883, No. 3002 W., Public Works.

Ordered that the schedules of military requirements on account of the Public Works Department, in the Madras Presidency, be forwarded to the Government of India, in the Military Department, in compliance with their No. 922 M.W. of the 21st September 1883.

2. Ordered also that the lists of military works be printed and circulated to the Superintending Engineers, in view to the necessary plans and estimates being early prepared and submitted for sanction.

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3. The Superintending Engineers concerned will take immediate steps for the preparation and submission, for sanction, of estimates for all unsanctioned works included in the schedule.

(Here enter No. 3003 W., dated 24th October 1883.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

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

Endorsement—dated 24th October 1883, No. 3003 W., Public Works.

Forwarded.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. A. Aubert.
Spare Copies

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GENERAL ACCOUNT.

Govt. of {1883 Madras.

PUBLIC WORKS.

Dated October, 24th.

Read. *Encl.*

G.O., 24th Oct. 1883, No. 3003 W.

OCTOBER.

Schedule of Military requirements

FORWARDING the — on account of Public Works in the Madras Presidency for 1884-85.

(Appendix to G.O., No. 3002 W., dated 24th October 1883.)

LIST of Military Works estimated to cost Rs. 2,500 and under, and for which Funds are required in the Public Works Budget for 1884-85.

Division or District.	Station.	Description of buildings, &c., and for what corps or department needed.	Approximate estimate of cost.	Remarks by the standing Barrack Committee as to the necessity of the buildings, references to former applications, orders of Government, &c.	Remarks by the Officer Commanding Divison or District.	Remarks by the Commander-in-Chief.
		Arsenal.	Rs.			
Eastern District.	Fort St. George ..	A verandah to Section II, VI, and VII, Store ..	400	Very much needed for the storage of serviceable fire-engines which are now kept out.	Recommended	Approved.
		A store-room in the forge workshop	520	Very much needed, the present one being too small.	Do.	Do.
		Railings to miscellaneous workshop and a door between them and armourer's shop.	700	Very much needed	Do.	Do.
		A shed in the new park	440	Very much needed for painting canvas ..	Do.	Do.
		The verandah of the European infantry officers' mess-house to be extended.	1,900	Required as the present verandah is too small ..	Recommended. The mess-house has a very small verandah and would be much improved by a verandah along the sea-face of the building.	Do.
		A good water-tap for the quarters of the superintendent of fire-engines.	200	Very much needed	Recommended	Do.
		Body Guard.				
		Dispensary for veterinary department for Body Guard.	1,300	*Nil*	Do.	When funds are available.
		Gun-powder Factory.				
		Breaking down house .. .. .. 1 Breaking down machine. 1 House for 6-horse power engine and boiler.	500	G.O., No. 59, dated 7th January 1874 ..	Recommended as being apparently portion of the scheme for the thorough renewal of the gun-powder factory—*vide* items in the list of major works.	Approved.
		Powder magazine .. .. Wooden flooring and thorough repair.	1,100	G.O., No. 1501, dated 31st March 1875 ..		
	Madras	*Commissariat Department.*				
		A wheat store-room for the Government bakery.	1,785	There is no place at present should emergency demand the storage of wheat without endangering the safety of the bread-stuffs by the introduction of weavils into the main building. Estimate sanctioned in G.O., No. 1863 W., dated 5th July 1883.	Recommended.	Do.
		The levelling of the bakery compound and a system of drainage to carry off the washing of the bakery.	950	There is no drainage-water lodges, and for sanitary purposes it is necessary that the ground should be levelled and a proper system of drains laid down.	Do.	When funds are available.

List of Military Works estimated to cost Rs. 2,500 and under, and for which Funds are required in the Public Works Budget for 1884-85—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps or department needed.	Approximate estimate of cost.	Remarks by the standing Barrack Committee as to the necessity of the buildings, references to former applications, orders of Government, &c.	Remarks by the Officer Commanding Division or District.	Remarks by the Commander-in-Chief.
		Commissariat Department—cont.	Rs.			
Eastern District—*cont.*	St. Thomas' Mount.	Sinking a well, erecting a moat and trough apparatus, public cattle depôt.	800	Required in the public cattle depôt in consequence of there being no water nearer than a tank 250 yards distant from the lines which in the hot season is perfectly dry; during the period the bullocks have to be taken to the river for water.	Recommended. When funds are available.	When funds are available.
		Lavatories on the standard plan for the north barracks.	2,000	Urgently required for the barracks ..	Recommended. These barracks have no proper lavatories.	Approved.
		Lavatories on the standard plan for the south barracks.	2,000	Do. do. ..		
	Vizianagrum ..	Bath-room for hospital of the native infantry regiment.	360	Much required, there being no accommodation which could be used for the purpose.	Recommended.	Do.
		Hospital wall to be completed	286	Present wall encloses three sides of the hospital, while on the fourth side and nearest the regimental lines there is none. If wall is completed, all ingress and egress will be confined to the regular entrance and a better watch kept over the movements of patients.	Do.	Do.
		Three public latrines, viz., one for men in the left wing, and two for women, one in each wing, on dry earth system.	2,255	Much required, there being at present only one latrine for men in the right wing, sanctioned *vide* Proceedings of Madras Government, No. 292, dated 24th January 1874. Rs. 765 for one completed, sanction for three more asked for.	Do.	Do.
		Powder magazine with surrounding walls on standard plan.	1,990	Much required, the present magazine having been condemned and having no protecting walls round it. The shelves being built into the walls are continually attacked by white-ants.	Do.	Do.
		Armourer's workshop	900	Much required, the work having been sanctioned *vide* Proceedings of Madras Government, No. 1111, dated 17th April 1873, progress of work stopped on account of famine in 1877, and not since completed.	Do.	Do.
	Berhampore ..	A wall to the military hospital of the native infantry regiment.	1,016	There is no wall or fence separating the hospital from a small village which adjoins it, to which patients in hospital can find easy access. A proper wall is therefore absolutely necessary. Approved when funds are available—*vide* extract from list of works for 1878-79. Estimate sanctioned in G.O., No. 1236 W., dated 25th April 1883.	Do.	Do.
		School-house for a native infantry regiment ..	960	A school-house is absolutely required for the use of the regiment, the present building (regimental property) having fallen in and being utterly unsuited for the purpose. G.O., No. 3764, dated 6th July 1883. P.W., No. 1768, dated 23rd June 1883.	Do.	Do.
Western District.	Mangalore ..	*Barracks, Native Infantry.* Forge trough and cupola to the armourer's workshop, also a screen as per clause *e*, paragraph 13 of G.O.C.C., No. 12, dated 12th February 1874.	730	Original estimate for Rs. 500 sanctioned—*vide* Proceedings of Madras Government, Military, No. 2133, dated 13th September 1876. G.O., No. 2590 W., dated 4th October 1882.	Required	When funds are available.
	Calicut	*European Infantry.* Introducing dry earth system	758	An important work. G.O., No. 2590 W., dated 4th October 1882.	Important	Most important.
	Cannanore ..	*European Infantry.* Replacing the laterite flooring of the recreation room with concrete in chunam and asphalte.	2,140	Recommended. The laterite perishes rapidly. Sanction in abeyance.	Depends on the result of the experiment made with these materials in the native infantry place of arms.	Necessary.
		Replacing the present flooring of the school-room with concrete in chunam and asphalte.	770	Recommended. The laterite flooring perishes rapidly.	Seems desirable	Do.
		Replacing the present wooden railings round the barracks with open laterite work.	639	Recommended on economic grounds. The wooden railings are expensive and require constant renewal. Sanctioned by Commander-in-Chief.	Desirable	Do.
		Replacing the present flooring of the European infantry cells with concrete in chunam and asphalte.	1,100	Recommended. Laterite flooring is found to perish rapidly. Sanction in abeyance.	Depends on the results of the experiment made in the native infantry place of arms with these materials.	Do.
		Station Hospital. Sinking a well	664	Another well is required. The water-supply is very scanty during the hot weather. Sanctioned by Commander-in-Chief.	Recommended	Very necessary.
		Ordnance Department. Raising the parapet of the magazine redoubt on a level with its caves and moving the guard-room from inside to outside the ditch.	1,900	Desirable as a precautionary measure ..	Do.	Very desirable.
	Quilon	*Native Infantry.* An armourer's shop	1,700	Much needed. The existing building is unsuited to present requirements. Browning arms cannot be carried on.	Desirable	Very necessary.
Bangalore Division.	Bangalore ..	*Royal Artillery.* A new latrine for the staff sergeant's quarters, Royal Horse Artillery, the present one being old and condemned on sanitary grounds.	2,100	Very necessary. This was condemned by a Board of which Deputy Surgeon-General was a member. Recommended in 1882.	Urgently required ..	Recommended.
		Ration shed for field batteries	1,750	G.O., No. 1232 of 14th May 1872. Much required. No cover for issue of rations.	Desirable	When funds are available.
		A battery staff sergeant's quarters for Royal Horse Artillery. One more required is now desirable.	1,100	Very necessary. There is at present no quarters for battery quartermaster-sergeant. The Committee recommended the conversion of the present camp store into a quarter, the camp equipage being removed into old foot artillery barracks. First time recommended.	Conversion recommended ..	Approved.

List of Military Works estimated to cost Rs. 2,500 and under, and for which Funds are required in the Public Works Budget for 1884-85—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps or department needed.	Approximate estimate of cost.	Remarks by the standing Barrack Committee as to the necessity of the buildings, references to former applications, orders of Government, &c.	Remarks by the Officer Commanding Division or District.	Remarks by the Commander-in-Chief.
Bangalore Division—*cont.*	Bangalore—*cont.*	*Royal Artillery*—cont.				
		Stone drains to forage yard and lines, Royal Horse Artillery.	Rs. 1,440	G.O., No. 3066 of 2nd December 1879. Much required.	Desirable	When funds are available.
		Cook-houses for sergeants' messes of two field batteries. One desirable.	1,470	Very necessary. First brought forward in 1882.	Very necessary	Approved.
		12th Royal Lancers.				
		To provide a gymnasium and fencing room ..	1,500	Very necessary. Recommended that half of No. 5 block, British cavalry barracks, be converted into a regimental gymnasium and fencing gallery. First time brought forward.	Strongly recommended ..	When funds are available.
		A latrine with twelve seats for use of the men whilst at stables is indispensable.	1,200	Very necessary. First time brought forward ..	Six seats urgently required.	Six seats approved.
		Commissariat Department.				
		To build, or render present building used as such (built for a native), quarters for the station butcher.	520	Very necessary, if the station butcher is to live at the slaughter-house. First time brought forward.	Desirable	When funds are available.
		To improve the road leading from slaughter-house to circular road near cavalry barracks to enable meat carts to travel to and fro without breaking down or injuring meat by jolting.	1,400	Necessary	Desirable when funds are available.	Do. do.
		Transport Department.				
		The speedy construction in the transport cattle-lines of a shed for carts and trollies. A saddle-room .. .. Store-rooms .. .. All being urgently required for the storage of saddles, line, gear, &c., and for protection of carts and trollies.	1,200	The adoption of existing camel-sheds, which are more than are now required for camels, into these buildings is very necessary. The mules (other than sick ones) should be picketted in regular mule-lines, south of transport non-commissioned officers' quarters and only such mules left under shelter. First time these requirements have been brought forward.	Necessary, so far as recommended by Committee.	Approved.
		Army Hospital Corps.				
		Thirty-three huts to be erected in the vicinity of the south station hospital.	924	First time these requirements have been brought forward.	Necessary on the corps being embodied.	Do.
		Twenty-seven huts near the north station hospital are absolutely necessary for the use of the men of the native army hospital corps doing duty in Bangalore. Clause 204, paragraph 24, Army Circulars, 30th November 1882.	756			
		Medical Department.				
		Stables for medical subordinates attached to Royal Artillery and Cavalry, south station hospital.	1,000	Much required. Temporary stabling at present, which is objectionable.	Necessary if the medical subordinates are entitled to stabling.	When funds are available.
		British Infantry.				
		Roofing the corrugated iron urinals in barrack square.	1,320	G.O., No. 3665, dated 21st July 1876 .. .. ,, No. 4383 ,, 30th August 1876. ,, No. 2611 ,, 26th September 1876. ,, No. 2732 ,, 11th October ,, Strongly urged by the medical authorities.	Urgently required ..	Approved.
		Latrines for native followers	1,600	First recommended in 1882. Much needed, there being no proper resort to this class.	Required	Do.
	Wellington ..	Removing the present concrete floors of latrines of Nos. 1, 2, 3, 4 and 5 barracks and school blocks and relaying the same with 12 square tiles.	1,680	G.Os., Nos. 1472 and 1812, dated 4th and 9th June 1874. Recommended 1882. Very necessary. The present concrete flooring is always out of repair.	Very necessary	Do.
		Bath-rooms to Nos. 1, 2, 3, 4 and 5 blocks for pay sergeants.	2,350	Recommended 1881 and 1882. Very necessary, as at present the married pay sergeants who live upstairs are without bath-rooms.	Very desirable	Do.
		Brick tiled flooring, instead of present concrete, to covered passage leading from married quarters to latrines.	1,000	Recommended 1882. Very necessary. The present flooring is always out of repair.	Desirable	Do.
		Purveyor's stores to be enlarged as the space is insufficient for bedding, clothing and furniture.	2,000	Recommended 1882. Necessary	Necessary	Do.
		Supplying 7 cooking stoves to staff sergeants' quarters similar to those for married quarters.	600	Very necessary. First time brought forward ..	Very desirable	Do.
		Supplying cooking range to sergeants' mess capable of cooking for 30 sergeants.	800	Do. do. do. ..	Desirable	Do.
		Compound wall and alterations to the Commissariat buildings.	1,280	G.O., No. 345, dated 24th August 1875. Desirable.	Not urgently required ..	When funds are available.
		Drainage works near barracks	1,822	G.O., No. 1748, dated 23rd July 1872. Desirable, much wanted.	Recommended	Do. do.
		Erecting a stone reservoir and laying pipes between springs and outlet of spring water supply.	2,070	G.O., No. 6809, dated 28th November 1876, desirable.	Desirable	Do. do.
Ceded Districts.		*27th Regiment, Native Infantry.*				
	Bellary	School	1,300	The present building is wanting in room and ventilation. Rs. 1,000 was the amount of estimate in budget list for 1883-84 for 100 scholars, but provision has since been made for 150. G.O., No. 2590 W., dated 4th October 1882.	This is very much required, the present building being quite unsuitable.	Do. do.
		Latrine for the left wing	1,500	The present one is inconveniently situated for this half battalion and there is not sufficient seat accommodation for the whole regiment, G.O., No. 2590 W., dated 4th October 1882.	Recommended, but the estimate appears very high. The latrine is much required.	Estimate seems expensive.

List of Military Works estimated to cost Rs. 2,500 and under, and for which Funds are required in the Public Works Budget for 1884-85—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps or department needed.	Approximate estimate of cost.	Remarks by the standing Barrack Committee as to the necessity of the buildings, references to former applications, orders of Government, &c.	Remarks by the Officer Commanding Division or District.	Remarks by the Commander-in-Chief.
Ceded Districts—*cont.*	Bellary—*cont.*	*Native Infantry Hospital.* Two small cook-rooms for use by 25th and 27th regiment.	600	A temporary arrangement for utilizing an unused latrine has been recommended, but has not been found to answer. There is no other place available, and out-door cooking is not advisable for sick. The lines are distant about ¼ mile. This is included in the budget works for 1883-84, and the estimate (approximate) is for Rs. 1,200. The present is for two small sheds against the rear compound wall. (G.O., No. 2590 W., dated 4th October 1882.	To turn a latrine, even an unused one and for a temporary arrangement, into a cook-room, seems to me altogether unsuited and objectionable. Two small cook-houses are undoubtedly required.	Cook-houses very necessary. Should there be no objection on sanitary grounds and if the latrine has not been in use, there seems no reason why the proposed arrangement should not answer.
		Ordnance Depot. Out-houses for the quarters of the laboratory sergeant, attached to the ordnance department.	620	These quarters have been recently formed from a portion of the depôt stores and are devoid of the accommodation asked for. Estimate sanctioned in G.O., No. 2461 W., dated 3rd September 1883.	Must be repaired and is therefore recommended.	When funds are available.
		Female Hospital. Compound wall	1,600	There is at present no fence round this hospital to ensure the privacy of the inmates. This hospital is close to the station hospital and the European infantry barracks.	This is, I think, very much required. There is absolutely nothing to prevent a passer-by seeing the patients in their beds. Privacy is also required for the patients walking about of an evening and for washing soiled linen.	Very desirable.

Fort St. George,
11th October 1883.

(Signed) D. J. S. McLEOD, Major,
for Quartermaster-General.

No. 1812 D.

GOVT. OF MADRAS. } 188 . { P. W. DEPT.

SECRETARY.

Chepák, 8th October 1884

OFFICE NOTE.

From Ar. 2556/2557

No. 2556/2557

To S & D.

Please state what sum will be required for expenditure during 1885-86, on completing the emplacement & improving the storerooms &c of the Coast Batteries as mentioned -

C.B.

S. W -

8.10.84

No. 2622

Nothing will be wanted in next year: of Rs 4000 are allotted for this year - as asked for. The work will be completed

W. 8 Oct 84

H.D. Sup't

OLS 37/90

C.-M.-C.O.-87

HEADING.

ACCOUNTS.

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

No. 994-M-W.

GOVERNMENT OF INDIA.

MILITARY DEPARTMENT.

2556/257.

Simla, the 2nd October 1884.

To

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

SIR,

WITH reference to Chapter XV, paragraph 63, of the Public Works Department Code, I am directed to request that the schedule of demands for 1885-86 for Military Works may be submitted so as to reach this office not later than the 10th October.

I am,

SIR,

Your most obedient servant,

J. S. Moad Lieut. Capt. R.E.

Asst. Secy. to the Govt. of India.

29.

C. C. B. Press, Simla.—No. 1484 M. D.—3-10-84.—15.

1812. Dy 8-10-84
1803 Dy 7-10-84
Go. 3003 W dy 24-10-83
" 3184 W dy 12-11-83
" 2245 W dy 12-9-84
" 2244 W dy 12-9-84
" 1734 Dy 25-9-84
" 167 W dy 21-1-81
" 2808 W dy 7-12-80

Dete

Wright

SECRETARY TO GOVT. OF MADRAS
13 OCT 84
P. W. DEPARTMENT

Engineer

No. 2556/2557 W dy 18-10-84

Od. S. 26/10

No. 1803 D. Dete 8469

GOVT. OF MADRAS. } 188 . { P. W. DEPT.

SECRETARY.

Chepâk, Dec 10 7th/14 October 1884.

OFFICE NOTE.

R. No. 471. of 7-10-84.

2556/2557

From D. W.

No. 2556/2557 W dy 18-10-84

To C.

Please state if in the accompanying list of Military Buildings Works for 1885-86, received from the Quarter Master General, there are any works that are completed or are under execution in the current official year

A very early return of the list is particularly requested

C.B.

D. W.
7-10-84.

Od. 37/10

P. J. C.

No 506 of 9-10-84.

To W.

Encl 1.

In the Statement herewith returned the work "Constructing a Dead House in the Compound of the Garrison Hospital at the Native Infantry Regiment at Vellore" has been completed & while the work "Armourers Shop for a Native Infantry Regiment at Vellore" is under execution. But this latter work is recorded in the books of this Office with an Estimate of Rs. 2.800/- Sanctioned in G. O. No. 1547/W. Dated the 20th June 1881.

Eg.
9/10.

C. 9/10

B/

Q. 11-10-84

J. W. Dept.

No. 803 Dy 7th October 84.

Office-Note

From D.W

To C/

Please state if in the accompanying list of Military Minor Works for 1885-86, received from the Quarter-Master-General there are any works that are completed or are under execution in the Current official year.

A very early return of the list is particularly requested

Sd/ C B
D.W.

31

Noted by B 9/10.

2556
2557

27

For W Dept

Office Note

Re Bill Engg & Contr

From
DW
To DEV

Please state what sum will be required for expenditure during 1885-86 on completing the Emplacements & improving the Store-rooms, of the Coast Batteries at Madras

Dep Sec
DW

32

Item No.	Nature of work	Sanctioned Estimate	Expenditure upto March 1956	Allotment for 1956-57	Total outlay	Balance of Estimate available	Amount kept under reappropriation	More demands	Remarks
1	Improvement to the Fort fortress - Fortress - Madras.	240492	215628	10000	225628	22864	199830	176966	
2	Completing the Emplacement & improving the Stone Revetment of the Coast Batteries, Madras	48800	30511	20000	50511	-1711	53000	54711	
4	New barracks for Royal Artillery at Fort St. George	135060	67399	30000	97399	37661	127750	90089	
5	Barracks for detachment Arty. at Mallapuram	131610	45530	38000	83530	48080	131610	83530	
6	Cons. & fortified port & Arsenal at Port Blair, Andamans	34280	3453	28600	31453	2827	32980	30053	

Proved

4 Nov

Non words shewn in this Statement are described by the words contained in the Inventor Receipts Letters - But the demands required in their accounts are for in exchange of the Commissioners Warrants will be seen from the Returns given hereto.

Enclosed I send three forms for orders which in the Schedule to Forms of Indian provision should be made for their issues to the extent of the balance of Instruments available on the full sum will demanded from the entire pending Sanction to remit Instruments -

H
F
Bd.

3A
A

3A 35
B

Appendix B to No. 2550 V dated 18 [illegible]

Buddoogam [illegible]

Schedule of the probable requirements of the Madras Pres[illegible]

Head of Inspection	Executive Division	Locality	Item No.	Projects and Works	Class
1	2	3	4	5	6
Trichinopoly	Trichinopoly		1	Converting a racket court into a covered gymnasium	B
do	do	do	2	Manager's dispensary for the British Infantry Regiment	B
do	do	do	3	Drainage of Fort and barracks	B
do	do	do	4	Watchhouses outside the barracks	B
do	do	do	5	Garrison Engineer's to be done away with and new rest houses to be built on its site on the meantime the kitchens to be better constructed.	B
Chingleput	Chingleput	Chingleput	6	New Barracks for Royal Artillery	A
do	do	do	7	Cookhouses, three in number one for each North, South, and the New Artillery Barracks	B
do	do	do	8	Constructing two blocks of stables for two field batteries of Royal Artillery	A

Abstract showing the Allotments for Buildings and Roads for Imperial Military Purposes for the Financial Year 1885-86

Original Works Major Works: Works in progress	Original Works Major Works: New Works	Original Works Major Works: Total	Original Works Minor Works: Total	Repairs	Establishment	Tools and Plant	Extra Establishment	Grand Total	Remarks
7	8	9	10	11	12	13	14	15	16
	11,570	11,570						11,570	Estimate of Rs 11570 sanctioned in G.O. 570 W dt 4th March 1884 Item No: 1 of B Works, Budget of 1884-85
	5,000	5,000						5,000	Estimate awaited.
	10,000	10,000						10,000	Do.
	2,500	2,500						2,500	Do.
	4,500	4,500						4,500	Do.
	30,000	30,000						30,000	Estimate of Rs 1,35,050 sanctioned in G.O. No: 288 W dt 4th February 1884 Item No: 1 Class A Works, Budget of 1884-85
	9,000	9,000						9,000	Estimate awaited.
	10,160	10,160						10,160	Estimate of Rs 20,160 sanctioned in G.O. No: 2714 W dt 1st October 1883 Item No: 10 of Class B Works, Budget of 1884-85
	82,730								

	Bellary	Bellary	16	Swimming bath for 2nd Battalion Royal Fusiliers.	B	12,600	12,600	" 12,600	Estimate awaited
	do	do	17	New gun sheds with collar maker's and wheel shop combined for the Royal Artillery	B	5,663	5,663	" 5,663	Estimate of Rs 5,663 sanctioned in G.O. No. 914 Wdy 3rd April 1884.
	do	do	18	Infectious disease ward & cook house for the station hospital	B	6,140	6,140	" 6,140	Estimate of Rs 6,140 sanctioned in G.O. No. 320 Wdy 17th February 1884.
	Nilgiri	Willington	19	Additional hospital accommodation for women and children	B	5,000	5,000	" 5,000	Estimate awaited.
	do	do	20	Gymnasium	B	21,835	21,835	" 21,835	Do.
	do	do	21	Drinking water to be laid on to hospital	B	5,000	5,000	" 5,000	Do
	Coimbatore	Mettupuram	22	Barracks for detachment British Infantry	A	40,000	" 40,000	" 40,000	Estimate of Rs 13,760 sanctioned in G.O. No: 580 Wdy 3rd March 1884. Item No: 2 Class A Works, Budget of 1884-85
	do	Cannanore	23	Plunge bath on standard plan for European Infantry Barracks	B	4,690	4,690	" 4,690	Estimate of Rs 4,690 sanctioned in G.O. No 411 of 10th February 1876.
	do	do	24	Improving latrines for the British Infantry	B	2,780	2,780	" 2,780	Estimate of Rs 2,780 sanctioned in G.O. No: 1056 of 4th April 1877

243243

Statement of estimates for Buildings & Repairs to Barracks

139,575

Vizagapatam	Vizagapatam	25	Regimental store room including storage for the camp equipage	B	5,000	5,000	"	5,000	Estimate awaited
do	do	26	3 public Latrines for the use of the Native Infantry Regiment	B	3,150	3,150	"	3,150	do
Presidency	Madras	27	Additional cavalry huts for the N. I. Regimental lines at Peramboor	B	27,400	27,400	"	27,400	do
do	do	28	4 latrines for — do —	B	4,000	4,000	"	4,000	do
do	Bangalore	29	Public buildings for a regiment of Native Cavalry		25,237	25,237	"	25,237	Estimate of Rs 25,237 sanctioned in G.O. No. 1714 dated 18th January 1884 Item No. 269 Class B of the Budget for 1884-85 Estimate awaited
do	do	30	Accommodation for 1 Regiment of N. Infantry		14,610	14,610	"	14,610	do
do	do	31	Store rooms & workshops for the Pioneer Regiment	C	3,000	3,000	"	3,000	do
Chingleput	Pallavaram	32	New Lines for 1 regiment of Native Infantry	B	33,000	33,000	"	33,000	do
do	do	33	Regimental magazine for a Native Infantry Regiment.	B	4,500	4,500	"	4,500	do
Bellary	Bellary	34	Armourer's shop, Light Cavalry	B	2,695	2,695	"	2,695	Estimate of Rs 2,695 sanctioned in G.O. No. 2266 W dated 14th Sept. 1881 Item No. 125 of Class B Works Budget of 1884-85

3,15,815

	Bellary	Bellary	35	School house for the 27th regiment N.I.	D			Estimate of Rs 3,030 sanctioned in G.O. No 1194 W 4 15th June 1882
	Coimbatore	Coimbatore	36	Store room for Native Infantry	B	5,000	5,000	Estimate awaited
	do	do	37	Magazine for N.I. Barracks	B	3,000	3,000	
	do	do	38	Latrine with wells for N.I. Barracks	B	3,150	3,150	
	North Fort Kanara		39	Armament Shed for Native Infantry Regiment	B		2,000	Estimate of Rs 2,000 sanctioned in G.O. No 1193 W 4 15th June 1882
	Trichinopoly	Trichinopoly	40	Construction public buildings for 2 regiments of Native Infantry	A	21,140	21,140	Estimate of Rs 35,650 sanctioned in G.O. No 2190 W 4 15th Sept 1882 Item No 2 of Class B Works Budget for 1882-83
	Presidency	Fort St George	41	Armament of Fort St George	A		30,000	Estimate awaited
	do	Madras	42	Demolishing & re-erecting the present wheel shop of the Gun Carriage Factory at Madras	B	7,350	7,350	Estimate awaited
	do	do	43	Extra accommodation as store rooms in the Gun Carriage Factory	B	6,000	6,000	
	do	do	44	Improvements to the Gun Powder Factory	A	20,000	20,000	Total sanctioned estimates amounts to Rs 2,48,492. Item No 7 Class B Works Budget for 1882-83

Bangalore	45	Quarters for warrant and non-commissioned officers of the Commissariat Department	A	11,740	11,740	-	11,740		Estimate of Rs 26,740 sanctioned in G.G. No. 1038 W dated 31st May 1883 Items No. 2 of Class B Work & Bed Light for 1884-85
do	do	46	Constructing a shed at the Camp Tegnapatam Depot	B	5,300	5,300	-	5,300		25/16 25/55 Estimate awaited
do	do	47	Lines for 17 petty officers & 173 cattle attendants attached to Transport Depot	B	48,000	48,000	-	48,000		Do
do	do	48	Godowns for workshops & sheds for keeping 90 army transport & 24 ambulance carts Bullocks &c	B	5,500	5,500	-	5,500		Do
do	Bangalore	49	Quarters for a Conductor, Transport Deptt.	B	4,220	4,220	-	4,220		Estimate awaited
Chief Jail Surgeon	Trichy	50	Converting the late Supt. Engr's office at Trichy into a Commissariat Slaughter House	B	11,800	11,800	-	11,800		Estimate of Rs 4500 sanctioned in G. O. No. 1349 W dated 12th May 1884
do	do	51	Quarters for Station Butcher	B	4,740	4,740	-	4,740		Estimate awaited 29/9
Deputy Director of Commissariat & Store Contractor	Wellington	52	Bakery	B	27,000	27,000	-	27,000		Estimate of Rs 32,000 sanctioned in G.O. No. 1638 W dated 29th July 1884

Preceding Paragraphs for Constructing a fortified Port & Ordnance Depôt at Agartala

A

5,84,785

2800 . 2,800 . 2,800

Estimate of Rs 34,280 sanctioned in G.O. No 3060 W dy 30th October 1883. Item No 4, 6 Lines 13 Works. Budget for 1884-85

1,85,540 3,99,745 5,85,385 80,194 6,65,579 3,76,900 10,358 . 12,81,837

256/257

(*) Excludes Rs 20,000 on account of Municipal

Lenges on Military Buildings -

W/E-10

2537/9538

angalore	Transport Department		
	I. Accommodation for 209 mule saddles and 35 sets of harness		
	II Sheds for 56 carts 12 trollies and 12 light carts.		1535
	III Sheds for 50 sick carts		
	IV A room for Vety: medicines & instruments		
	Royal Artillery		
do	A new latrine for the Staff Serjeants quarters for H.A. the present one being old and condemned on Sanitary grounds.		2,100
do	Quarters for a battery Dr Mr Serjt R.H.A.		1100
do	Cook House for Serjeants' mess of two Field batteries		1470
do	Latrine with six seats for the use of two Field batteries		620
do	Stone drains to forage yard and Lines R.H.A.		1,440

Considered necessary	Very necessary	Ne
Desirable brought forward for the first time	Very much required	Very
Considered it necessary in case of fire damp or other accident as the building is isolated from the Barracks and contains nearly the Whole of the Camp Equipage of the Station (brought forward for the first time —	Very necessary the original pipes when these buildings ceased to be barracks I consider the estimate greatly over drawn	Desir seems
Very necessary on Sanitary grounds as the building is very low and floor lower than the surrounding grounds	Urgently required for Sanitary reasons	Very
Necessary - brought forward for first time	Desirable	Ne
Desirable brought forward for the first time	These improvements are very necessary	Ne

Bangalore	Parade Barracks Lining with stone the drain East and West of barracks limits	1538			
Do	Commissariat Department To build or repair present building used as such but built for a (latrine) quarters for the Station Butcher	520			
Do	To improve the road leading from Slaughter House to Cavalry barracks to enable meat carts to travel to and fro without breaking down and injuring meat by jolting	14:00			
Do	Royal Horse Artillery Boarding floor of recreation room	1240			
	Arsenal				
Fort Saint George	A verandah to godown No II, III and IV Store	401			
Do	A Store room in the Forge workshop	520			
Do	Railings to miscellaneous workshop and a door between them and Armourers shop	790			
Do	A shed in the new Park	440			
		304			

14

15

O.G. No 1472 dated 4th June 1874. O.G. No 1812 dated 9 June 1874 Very necessary	Recommended	Necessary	2506/355
Necessary	Much required and very necessary	Very necessary	
	The flooring of these passages with tiles would eventually be a saving to the Government	Very necessary	
Necessary	The storage space is at present quite insufficient I therefore recommend the outlay	Very necessary	
	Recommended	Very necessary	
Necessary	Very necessary they have now a small latrine built by the Regiment	Very necessary	
Very necessary. As the present quarters are very small	A necessary requirement	Very necessary	

Bangalore	12th Royal Lancers Latrine with 6 seats for use of men while at Stables	1850 600	Urgently required as the whole of the Sick Casts Obsolete &c are now in charge of the Department	A very necessary requirement the present Harness room altogether insufficient the harness cannot without difficulty be properly overhauled. The casts Obsolete undoubtedly deteriorate by being kept in the open	Very necessary
Do	To have a cook house built for a Coffee shop	250			
Do	Camp Equipage Godowns Laying down one inch water pipes from main pipe to Camp Equipage stores Length 830 feet	1170	Required on Sanitary grounds	Urgently required on Sanitary grounds as reported by the Committee in 1882	Very necessary
Do	Commissariat Department Alterations to staff sergeants quarters (2) by raising floor and roof	2,000	Conversion recommended as approved by His Excellency the Commander-in-Chief last year		Approved
Do	South Station Hospital Stabling for Apothecaries quarters	40	Very necessary	A very necessary requirement	Necessary
Do	15th Regiment N.I. I. Place of arms light from roof II. Modification of doors, windows and arm racks for a Regt of 8 Companies in lieu of 10 Companies III. Surface V. drains round building IV. Place of arms enlarged Prisoners room V. Native Infantry Hospital	700 23,6	Necessary for use of men at Stables	Urgently required	Necessary
			Sanctioned when funds are available - Considers desirable	I consider that surface drains would meet the requirements in this case and could be executed by the Sappers at less than half the cost	The suggestion of the General Officer Commanding approves of -

2556
257

Wellington	Roofing the present concrete floors of Latrine to 1, 2, 3, & 5 barracks and asbestos slab and relaying the same with 12 inch square tiles	1,680			
Do	Both rooms to No 1, 2, 3, & 5 blocks for Pay Sergeant	2,350			
Do	Best tile flooring instead of present Concrete to cover passages from Married Quarters to Latrine	1,000			
Do	Dining Room Table enlarged as the space is insufficient for bedding clothing and furniture	2,000			
Do	Supplying of Seven Cooking stoves to Staff Sergeants quarters similar to those to Married quarters	600			
Bangalore	Parade Barracks Latrine to Native followers	1600			
Do	Transport Department Converting Sergeants Quarters into a Sub Conductors quarters	1,000			

Barracks

G. No 2755 W dated 5 July 1878 Desirable	It is desirable to have these drains constructed a good size & drain would answer the requirement	Necessary as advised by Officer Commanding	
Desirable sanctioned when funds are available	Urgently required the present building is quite unsuitable for the residence of an European	Very necessary	
Necessary - sanctioned when funds are available	It is very necessary that this road should be put in thorough repair could be done for half the cost by Sappers labor	To be done by Sappers as soon as funds are provided	
Brought forward for the first time	Desirable	When funds are available	
Very much needed for the storage of removable fire engines which are now kept out	Recommended	Approved	
Very much needed the present one being too small	Recommended	Do	
Very much needed	Recommended	Do	
Very much needed for painting Canvas	Recommended	Do	

2556
2557

Fort Saint George	A new bridge across the Trench in New Park	36.4 810	Very much needed but if outer works are demolished the bridge will not be required	Now recommended as it has been decided that the outworks be not demolished Vide G.O. 5th July 1884 No 3227	When funds are available
Do.	A good water Tap for the Quarters of the Superintendent of Fire Engines	200	Very much needed	Recommended	Approved
Do.	The verandah of the European Infantry Officers Mess House to be extended	1900	Required as the present Verandah is too small	Recommended The Mess House has a very small verandah and would be much improved by a verandah along the entire of the building	Approved
Do.	A room inner and outer compartments be erected for Theatrical performances for British Infantry	1000	Very desirable	Recommended	Approved
Madras	Station Hospital Two tents for the reception of infectious cases in the Compound of Station Hospital - The tents should be capable of holding 3 beds for the treatment of cases among the men and 2 beds for women and should according to regulation contain 7200 Cubic feet of space and 4800 cubic feet respectively - They should be about 20 feet long by 20 feet broad by 18 feet high and 18 feet long by 18 feet broad by 15 feet high respectively	750	At present all cases of infectious disease have to be isolated and treated in tents, this arrangement is fairly satisfactory during the cold months of the year, but during the hot weather it is most undesirable as the Tents become so hot that it is injurious to the men to be kept in them.	Recommended	Recommended

	Madras			
		Body Guard		
		Dispensary for Veterinary Department	35,138	
		for Body Guard	1300	
		A. I. Lines Peramboore		
Dr.		A new Regimental school at the Peramboor Lines	1375	
Do		An Armourer's shop	2000	
Dr.		A. I. Lines Royapuram		
		One Latrine on the north side of the Regimental Lines at Royapuram	1200	
		Gun Powder Factory		
Do.		Breaking down House		
		1 Breaking down machine		
		1 House for 6 Horsepower engine and boiler	500	
Do.		Powder Magazine wooden flooring and thorough repair	1100	
Do.		Commissarial Department		
		A detached godown for the storage of wheat with verandahs on both sides in the Government Bakery	1785	

Entered

Necessary	Recommended	When funds are available
Much required estimate for Rs 1375 for converting Staff Sergeants Quarters No II into a school house for A. I. Regiment at Peramboor sanctioned when funds are available O.G. No 312 W dated 6th February 1864	Recommended	Approved 2556/557
The present Armourers shop is not on the standard plan and have no facilities for burning arms which has to be done in the open	Recommended	When funds are available
Latrine on the South side has been completed that on North side is required	Recommended	Recommended
O.G. No 590 of 7th January 1874 / O.G. No 1501 of 31st March 1875	Recommended as being apparently portion of the scheme for the thorough renewal of Gun Powder Factory vide items in the list of major works.	Approved / Do
There is no place at present, shewn emergency demand the storage of wheat without endangering the safety of the bread stuffs by the introduction of weavils into the main building. Estimate sanctioned O.G. No 1868 W dated 5th July 1883 Public Works	Recommended	Approved

Commissariat Department

Madras	The Levelling of the Bakery compound and a system of drainage to carry off the washing of the Bakery	44 398	950	There is no drainage water bodyes and for sanitary purposes it is necessary that the ground should be levelled and a proper system of drains laid down.	Recommended	When funds are available
Saint Thomas Mount	Sinking a well erecting a moat and trough apparatus Public Cattle Depôt		1200	Required in the Public Cattle Depôt in consequence of there being no water nearer than a tank 250 yards distance from the lines which in the hot season is perfectly dry, during the period the bullocks have to be taken to the river for water	Recommended	When funds are available
Do	Improvements to the Lightning Conductor to expense Magazine Royal Artillery		1500	It is absolutely necessary the present one having been condemned by the Telegraph Department.	Recommended	Most important
Palamcotta	An Armourers workshop for 1st Regiment		820	At present none	Recommended	Approved
Do.	Store room for Regimental Camp Equipage for the use of Native Infantry Regiment		1500	At present none	Strongly recommended much needed the old dak Bungalow is at present used as a store room —	Approved
Do.	Tiled shed suitable for the accommodation of about 250 sepoys from Madras during the Musketry season and recruits at other times at Meenumbaukum		636	At present none — Urgently required	The well is recommended but the erection of a tiled and permanent shed is not recommended as it does the men good to Camp out every now and again.	Well approved sheds unnecessary.
Do.	Sinking a well at Do		318			

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	Poonamallee	Lighting Conductors on the New Hospital	50 0 0 1800		
	Do	North East Block old barracks — Required to be converted from married into Single quarters	1000		
	Do	New Family Quarters. Requires a wall to shut off the new married quarters from Main Road.	1000		
	Vellore	Armourers Shop for a Native Infty Regiment on the Standard plan	2000		
	Do	School House for a Native Infantry Regiment. Materials only being supplied by the Public Works Department	2150 or Rs 00		
	Do	Constructing a Dead House in the Compound of the garrison Hospital of the Native Infantry Regiment.	900		
	Vepanapram	Bath room for hospital of the Native Infantry Regiment	360		
			8,996		

Very urgently required the building is about the highest point in the station	Recommended	Most important	
When a large party of men arrive in the station a portion have to be accommodated in the Main Hospital wards.	Can only be commenced when the new family quarters are Completed and if it is decided to maintain Poonamallee as a Depot.	25/50 25/53 When funds are available	
	Recommended if the Depot is to be maintained	Approved	
Recommended for immediate execution.	Recommended - The amount of the estimate is Rs 2820 an appropriation of Rs 820 has been made from the reserve of the army stile required is Rs 2000 - Vide Rs 2515 W dated 7th September 1883.	Approved	
This building is very much needed for the use of the Regiment in garrison as the Cabal in the Corps at present occupied as a School is at a considerable distance from the lines	Much needed, construction of a school house has been sanctioned for execution when funds are available Vide Rs 1931 W dated 2d February 1884.	To be constructed by the men	
Vide Rs 5449 W dated 15th March 1883.	Much needed	When funds are available	
Much required there being no accommodation which could be used for the purpose	Recommended	Approved	

anagram	Hospital will have completed	286			
Do.	Powder Magazine with surrounding wall on Standard pattern	1990			
Do.	Armourer workshop	900			
Parkhampore	School House for a Native Infantry Regiment Materials only being supplied by the Public Works Department	980			
Cuttack	School House for a Native Infantry Regiment Material only being supplied by the Public Works Department	2162 Cccc			
Chanagram	A small public Latrine near the Barrack buildings	300			
		6378			

Prov. Wall enclosing three sides of the hospital veranda on the E. side and nearest the Regimental Bazar there is none. If wall so completed all ingress and egress will be confined to the regular entrance and a better watch kept on the movements of Patients.

Recommended — When funds are available

Much required the present magazine having been Condemned and have no protecting walls round it - the shelves being built in to the walls are Continually attacked by white ants

Recommended — Approved

Much required the work has been sanctioned G.G. No 1111 dated 17th April 1873 progress of work stopped on account of famine in 1877 and not since Completed

Recommended — Approved

A school house is absolutely required for the use of the Regiment the present building (Regimental Property) having fallen in ruins being utterly unsuited for the purpose -
G.G. No 1551 W dated 25 June 1884

Recommended — To be constructed by the men

The school is temporarily occupying a place for cleaning arms where the accommodation is insufficient

Recommended — To be constructed by the men

Required for the use of men of the guard and men at school or on duty - The Regimental lines being about ¼ a mile distant.

Recommended — Recommended

remarks	Station Hospital making a well	700		
Do	European Infantry - Replacing the present flooring of the European Infantry cells with concrete in Cumnam and Asphalte	1100		
Do	Ordnance Department - Raising the Parapets of the Magazine round on a level with the same and altering the present room from inside to outside the debris	1900		
Do	European Infantry - Replacing the Latrine flooring of the recreation room with concrete in Cumnam and Asphalte	2140		
Do	European Infantry - Replacing the present earthen pathways round the barracks with pucca Latrine work	639		
Kallieporam	European Infantry - The Lick Cart shed to be rebuilt	1550		
Hospital	Substitute asphalte in room of Cumnam floors in wards and Surgery of Hospital 33 Regiment Native Infantry	695		

Roof requires the water proofing and repairing the same	Strongly recommended	Strongly recommended
Recommended the present Latrine flooring is in a very bad state - Vide Ex. No 1875 W dated 8th July 1854	Recommended	Recommended
Desirable as a precautionary measure	Recommended	Very desirable
Recommended the Latrine pavilion rapidly vide ob. No 1675 W dated 5 July 1854	Recommended but not very urgent	Recommended
Recommended on economic grounds - the wooden railings are expensive and require constant removal	Recommended	Recommended
Present shed is dangerous being of thatch - OG No 2590 W dated 2 October 1852	The present shed is in ruins and the site is required for a ward for Contagious diseases - Recommended.	An inexpensive shed should suffice
Recommended on Sanitary Grounds	Recommended	Recommended

Transport Department

	Barracks Fatal Infantry —	7238			
	Large trough and outlets to the				
	Cesspools not to be left also a screen				
	to enclose Space 15 of G.G.G.				
	Site 12 dated 12th February 1874	790			
Do	Station Hospital Ambulance shop	1700			
Army	Royal Artillery and Field Infantry				
	Complete system of drainage from				
	Wash houses and Family quarters	1500			
	Station Hospital				
Do.	A Cesspool well with two gates to				
	enclose the Female Hospital attached				
	to the Station Hospital	1300			
	2nd Cavalry				
Do	Permanent shoeing shed or suitable				
	Forge	480			
	2nd Regiment A. I.				
Do	A pump well to be dug	500			
		7858			

Original Estimate for 500
Sanctioned vide GG No 2153
dated 13 October 1876 Rs
for 2 Pipe Wells & Cattle Pit
dated 6 October 1877

Recommended

Recommended

254/257

Much needed as the existing Pits
are a source of Fever
Nuisance. Pumping must
cannot be carried on

Not at present urgent

when funds are available

Cattle in Cantonment last
year suffered severely in
Sept 1877 & Oct 1877 &
Much needed as at present
Water used is very bad
dated 1 May 1878

Much needed and
about to be carried out

Very necessary

Much required to ensure
privacy to the patients

When necessary

Much needed as there is no
proper place in which the
Farrier can make shoes

A building of some sort
is certainly required

Suitable forge necessary

Greatly required. There is at
present only one well for the
use of the Corps and the water
from this is stated by the Medical
Officer to be full of organic
matter and impurity

This is much required. This
Regiment has only 2 wells from
which to draw drinking water
of these one "the dubakee bet"
fails every summer. It is
now being deepened but does
not promise well. the water
is of doubtful quality

Very necessary

22

Estimate for Lamp by 11 mile for use of the Left half Battalion	600	Estimate in last year's list. the Estimate was then Rs 1500. and was considered by H. E the Commander-in-Chief as excessive The Latrine is very much required	This is much wanted	Necessary
Commissariat Department Store room and Office Establishment	670	Would be a very great improvement. The Executive Commissariat Officer complains that the contents of the rooms are damaged by rats &c.	This would be a great improvement.	When funds are available
Barrack Department Quarter Guard House and Stables for Barrack Sergeants Quarters	336	Very much required Submitted in Dft No 3121 dated 29th June 1882	Very much wanted	Very necessary
Total	80,194			

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Quarter Master General's Office
Ootacamund 3rd October 1884

Asst Adjutant General Major
Offg Dy Quarter Master General

Bangalore

1st Light Cavalry			
Accommodation for one Regiment Native Cavalry			
Place of Arms and Armorers shop	7165		
Horse Infirmary	5800		
Magazine	2750		
Guard Room	3540		
School Room	1715		
Water trough	510		
Wells	2320		
Roads, drains, preparation of site	6800		
		25237 H	
		29,600	
Native Infantry			
Accommodation for one Regiment Native Infty (less Magazine)		14,610 H	
Entrenchment as place of refuge		16,100 H	
Ordnance Depôt		16,780 H	
		32880 H	
Transport Department			
Quarters for a Conductor		4,220	
Royal Artillery			
Quarters for School master and mistress		6,200	
4th Pioneers			
Store rooms and work shops to be erected		3,000 X	

Bangalore Division

See O.G. No 2907 dated 18th June 1884 declining to reallot grants withdrawn for this purpose.

In O.G. No 1552 W dated 20th June 1884 Government of India consider that the plans and estimates submitted are suitable - but funds cannot be allotted in current year but they may be entered in budget of 1885-86

Would suggest that this work should be proceeded with without delay

Very m
school-roo
by the m
Vide
dated 7th

2556/2557

Vide O.G. No 858 W dated 31st march 1884

As above

Very urg
=ment to
with as m

Vide O.G. No 858 W dated 31st march 1884

Urgently required

A conductor's quarters is undoubtedly required but I would not consider that it is an urgent requisition - The conductor at present resides some distance from the lines but I do not think his duties suffer from the fact

When f
avail

Necessary - as both School master and Mistress are now occupying hired quarters

As Quarters have now to be hired it is very necessary that these buildings should be erected

When

Necessary urgently required as this Corps is furnished with new Equipment

Urgently required for Pioneer Equipment - Not to be issued as the Regiment goes to Pallaveram

Very d
like to
Corps al

Bangalore	4th Class Gymnasium	4,600				
Wellington	Commissariat Department					
	Bakery	31240				
	Latrines for do	760				
		32000				
	Gymnasium	21835				
	Additional Hospital accommodation for Women and Children	5,000				
	Drinking water to be laid on to Hospital	5,000				
	Church	38,161				
Trichinopoly	Accommodation for two Regiment N.I combined					
	Place of arms and Guard room	8,450				
	Store room	3370				
	Cells	1850				
	Magazine for 2 N.I Regiments (combined)	5140				
	Armoury shop	2330				
		21140				

Bangalore Division

Cuttack Parsonage

Very desirable

Plans and Estimate amounting to the sums noted have been approved and submitted to Government in this Office No 558 A dated 2nd July 1884 Vide Ob No 1838 W dated 29th July 1884

Desirable but very Costly

This is very much no central the Brandreth of the Sort for less than Rs 44,600 that should be expended

2556/2557

The erection of a bakery here is very necessary

This is very urgent the Estimate shows that a bakery can be built for Rs 31240

Required, but might stand over until funds are available

Desirable

Very much required, as when births are frequent as there being only one room for the purpose women have to be moved before they are fit for it to make room for such cases

When funds are available

Would recommend that drinking water be laid on to the Hospital at Wellington

Desirable

Vide Ob No 1977 W dated 7th August 1884

Recommended

Estimate approved and forwarded to Government Vide Letter No 1552 dated 25th June 1884

In progress

Very desirable

Bangalore	Cantonment	Military Prison			
		Additions to the Military Prison	8,335	G.G. № 938 W dated 5th April 1884 G.G. № 2046 W Public Works dated 20 August 1884	Additional cells much required	This is most urgent and I hope that funds will be provided in the next budget.
	Bangalore	European Infantry Barracks – Plunge Bath on Standard plan	4,690	A bath is much needed for the use of the men. The open bath cut out of the laterite on the shore is quite useless. Estimate sanctioned in G.G. № 2590 W dated 4th October 1882 also vide G.G. № 418 dated 10th February 1876	Recommended – The salt water bath is very unsatisfactory and men will not use it. Men bathing are exposed to sun and wind, and in the hot weather the laterite radiates great heat	When funds are available.
		European Infantry Barracks – Improving the Latrines	2780	Not urgently required – Estimate sanctioned in G.G. № 1056 dated 4th April 1879 also vide G.G. № 2590 W dated 4th October 1882 and G.G. № 2533 dated 4th May 1883	Not urgent	256/257 Not urgent
	Bellary	Barracks for Detachment of British Infantry to accommodate 100 men	31,610	The detachment is at present temporarily housed – Vide G.G. № 1240 W dated 3-15th July 1882 G.G. № 2590 W dated 4th October 1882 and G.G. № 2533 dated 4th May 1883	Under construction – First Expenditure incurred in 1882-83	Approved
	Dharwar	Native Infantry Barrack Store Room	5,000	Urgently required the present one having been condemned by Public Works Department approved plan has been sent in	Recommended	When funds are available
		Native Infantry Barracks – Magazine on Standard plan	3,000	The present building is in a most unserviceable condition and would cost more to be repaired than replaced. It lets in the rain to a great extent and is extremely damp during the monsoon	Recommended. It is probable that a much smaller estimate will shortly be furnished	Desirable but the amount seems large
		Native Infantry Barracks – Latrine with wells	3,150	Desirable as a sanitary measure – there is no Kucha Latrine for the use of the Regiment. The trench system is impracticable owing to the soil being entirely composed of sand	Desirable	Our sweepers using Latrines seems necessary
Ceded Districts	Bellary	Royal Artillery and British Infantry Project for the supply of water to the Barracks of Royal Artillery and British Infantry	3,000	Entered in the list of works for 1884-85 and estimated at Rs 3000 – a new scheme on a larger scale has since been prepared by the Executive Engineer – The present system of supply is faulty and improvements are needed	If this project is carried out it will ensure the British troops getting a supply of pure drinking water. The present system is somewhat faulty.	I think it would suffice to masonry line the present tank by iron pipes

Bellary	Alterations and additions to be made to the Military Provost prison in the Fort and to the adjoining disused liquor godown to render the whole more suitable as a Military Prison	11260	Very greatly needed as at present there is no suitable & separate accommodation for prisoners 2 and 6 being confined in the same room. It is quite impossible to carry out strict discipline in the building as it is now.	This is very much required.	This is very important as it is often not possible to find room for Court martial prisoners in the other Military Prisons
do	2nd Battalion Royal Fusiliers A Convenant roofed swimming Bath	12,600	Very necessary - to replace the present bath in which 18 men cannot bathe together and which is much too small and too far from the Barracks to be much used -	This would certainly be a great convenience to the men as the existing bath is small for a Regiment	When money available
do	Royal Artillery Collar Makers and wheelers shop	5,663	Much required - Sanctioned in G.G. No 9 dated 3rd April 1882.	This is much required	Very necessary
do	Station Hospital Infectious disease ward	6140	Entered in last years list - much required Sanctioned in G.G. No 700 dated 14 February 1882	Much required	When funds are available.
do	2nd Cavalry Armourer's shop of the Standard pattern	2695	Entered in last years list - greatly needed Sanctioned on G.G. No 3 1837 dated 12 November 1883	Very much needed	Necessary
do	27th Regiment N.I School house of the Standard pattern	3030	Entered in last years list - Very much required there being no room available for a school at present - Sanctioned in G.G. No 749 dated 17th January 1884	Much required	Necessary
Fort Saint George	Converting the racket court into a covered Gymnasium for British Troops	11570	G.G. No 208 dated 23rd January 1884. G.G. No 1552 dated 20 June 1884 (M.S. No 321 dated 24 July 1884	Recommended	Strongly recommended
	An armourer's shop required to be built on the Standard plan for the British Infantry Regiment	5,000	This is much required as the present armourer's shop is merely a matchiff. None are to be built on standard plan. This has been reported by both the Asst Adjutant General for Musketry and Chief Civil Engineer Armourer's are not being on Standard plan.	Recommended	Recommended

Fort Saint George	Drainage of Fort and barracks remodelled and a better system of drainage introduced	10,000	Recommended especially with reference to the drainage	Recommended	Recommended
do	Wash house to be built outside the barracks in lieu of North and South Wash houses inside	2500	Recommended	Recommended	When funds are available
do	Garrison bazaar to be done away with and new Cook houses built on do ground the meantime the kitchens to be better ventillated	4500	Strongly recommended	Recommended	Ditto
	Gun Powder Factory				
Madras	Glazing and dusting houses one group Viz:-				
	1 Glazing house				
	1 Dusting house				
	1 House for 12 horsepower Engine and 2 boilers	92,000	GG № 4020 dated 15th October 1878 page 2 № 7.	Recommended	As funds are available
	1 Watch house				
	1 Deposit Magazine				
	1 Tank				
	Complete with Tramways, Tramways roads &c.				
	Incorporating Mills one group Nos Viz				
	6 Mill rooms				
	1 House for 25 Horsepower Engine with 2 boilers		GG № 4020 dated 15 October 1878 page 2		
	1 Green charge deposit magazine	50,000	№ 8 GG № 3159 dated 28th June 1882	Recommended	Ditto
	2 Watch House				
	1 Tank				
	Complete with Tramways roads &c				

Arsenal Block

2556/257

Gun Powder Factory Continued

Madras	1 Master workers house 1 Master Refiners house	10,170	Ob. No. 4030 W dated 15th October 1878 Page 2 No. 9	Recommended	As funds are available
	1 Drying House	15,000			
	Pebble Cutting House 1 Granulating House to be converted into a pebble cutting machine house	9420	Ob. No. 425 W dated 16th February 1882	Recommended	Ditto
	Providing a compound wall round the Factory	20,240	Ob. No. 800 W dated 25th March 1884	Do	Ditto
	New Clock Tower for Turret Clock complete with bell 2 fat dial 4 faces received from England and which is now in stores	3000		Recommended	Ditto

Gun Carriage Factory

	The present wheel shop of the gun carriage Factory requires to be knocked down and a building 100'x80' erected standing only on pillars open all round similar to the Blacksmiths shops but the North and East sides protected from the North East monsoons some of the material of the present wheel shop to be utilized	7350	The present wheel shop is in a dilapidated and leaky condition and does not admit light in cloudy days great inconvenience is felt during rainy days This work therefore appears necessary	Recommended	Ditto
	Extra accommodation as store rooms is urgently required in the Factory, as stores now received have to be exposed to all weather for want of rooms. The new building should be built as near to the present store room as possible so that one store keeper may have the charge of all the store rooms	6000	These buildings have become absolutely necessary since the introduction of the new code of Regulations for the Indian Ordnance Department in 1880 as the Factory has to keep its own stock of material &c. whereas before the introduction of the Ordnance Code the factory drew from the Arsenal the material as it was required	Recommended	Ditto

2556/257

	Commissariat Department				
Madras	New slaughter house	17580	They urgently required the present site as it is far off and strongly objected to by the Superintendent Commissariat Farms. An proper supervision can be exercised at present over supply of meat. Arrangements are being made to convert the Officers Latrine occupied by the Superintending Engineer on the south side of the Adyar River into a slaughter house. Ob. No 4502 dated 17th July 1880. Ob. No 1127 dated 9 March 1882. Ob. No 781 dated 12 February 1883.	Recommended as already approved by H.E. the Commander-in-Chief.	There is no sanitary objection to the present building. If an other ground the site is objectionable the expense of a new slaughter house should be met by the Civil Department.
	Quarters for Station Butcher	4740			
		22320			
	Camp Equipage Depôt				
	Construction of a shed in the Camp Equipage Depôt.	5300	Required to afford shelter from rain and sun to Tailors employed in the manufacture of Tents.	Recommended	When funds are available
	Transport Department				
	Lines for 17 Bilty Officers and 170 Cattle attendants attached to Transport Department.	48000		Recommended	Very desirable but the cost seems high.
	A godown for workshop and sheds for keeping 90 Army Transport and 24 ambulance Carts, Bullocks &c.	5500	Nothing is known beyond the requirement stated.	Recommended	When funds are available
Bellary	**Native Infantry Lines Perambore**				
	Additional privy huts 120 in number are required at the Regimental lines Perambore for the accommodation of the men owing to the increased strength of the Regiment.	27400	These huts are much required and should be constructed as soon as possible.	Recommended	The estimate is excessive for 120 huts can be built for an entire Regiment by the men themselves.
	4 Latrines	4000	Two for Males and two for females there are no Regimental Latrines provided for the use of the men and women	Recommended - Unless some new system of Conservancy is established which will not oblige the women to resort to Latrines but at the same time will conduce to a proper system of Conservancy being carried out.	I would recommend Dr Colvin's plan being tried in a line of Latrines for the women but few of whom will resort to an outside Latrine.

Sanitary Commissioners Amount	Constructing Stables with ridge ventilators		The present arrangement of the stables affords no shelter for the horses during inclement weather.	Recommended - Estimate was forwarded with the approval of H.E. the Commander in Chief to the Secy to Government P.W.D Vide 2 M Co's No 659/5823 dated 20th August 1883	Urgently required
	for 2 Field Batteries	20160			
	Barrack for one Battery	127750	Work in Progress	Completion necessary	Approved
	Plunge baths - New Barracks	12600	The other barracks have plunge baths one is much required for the new Barracks and extra water supply would also be required the well and double moat apparatus is recommended.	2556/257	When funds are available
			Re entered this year for the following reasons the plunge baths that were referred to as to have become so leaky that the contractor absolutely refuses to fill them one large one is necessary for the two Light Field Batteries in the Royal Artillery lines length 46 feet by 20 feet breadth present one is 100 4 feet and 5 feet depths.	Recommended	
	Coffee shops 3 in number one for each North South and the new Artillery Barracks	9000	Urgently required. None of these Barracks are supplied with Coffee shops on the Standard plan. But before building them it would be well to be certain that garrison Artillery will in the future be Quartered at the Mount	Recommended	Urgently required for the two Field Batteries
	A wheeler and Collar makers shop for the new double storied barracks on the Standard plan	5000	A room for the Collar makers shop has been misappropriated under the sleeping room which is not at all a suitable place for it.	Recommended there is no proper Collar Makers Shop	Approved
	Converting the married quarters in the Begum's Compound into suitable accommodation for the Apothecaries	3000	The buildings are no longer required for the married men of the Batteries and the demolition of these buildings has been sanctioned in OG No 3199 W dated 12 November 1883 O.W. It is considered however that with repairs and slight additions they would make suitable accommodation for the Apothecaries instead of building new quarters for them —	Not recommended the quarters would be on much too large a scale and moreover would require constant repair these buildings are old	This seems to me the proper plan

Pallavaram	One mortuary room for each of the 3 Hospitals at the 3	Estimate 3 000.	There is at present no accommodation where to conduct post mortem examination the Committee consider it absolutely necessary that a dead house for each of the 3 Resident hospitals shall be built as soon as possible. No 1 the European Artillery Artillery Company Hospital No 2 Native Infantry Regimental Hospital No 3 Native Infantry Depot Hospital	Recommended	When funds are available
	A new Line required for one Native Infantry Regiment	33,000	Most urgently required there being now only 275 Huts available, and they are mostly in bad order. Walls too low. They are occupied by the Native Infantry Depot as well as by the Regiment stationed at Pallavaram the rest three huts belong to the Depot the Regiment residing there not in use	Recommended	2556/257 These lines should be constructed regimentally
	Regimental Magazine for a Native Infantry Regiment on the Standard plan	4500	At present none	Recommended strongly at present there is no proper magazine - a portion of the store room is used as a magazine.	Approved
Pallavaram	Regimental Store room one strong Range for the Camp Equipage	5,000	The building now in use as a store room is too confined, the stores have to be kept in an old condemned building the present Regimental store room is too old to be enlarged walls being cracked	Recommended	When funds are available
	2 Public Latrines for the use of the Native Infantry Regiment one for men on the left wing and 2 for women one in each wing on dry earth system	Estimate 3150.	Much required there, at present only one Latrine for men in the Right Wing Sanctioned Vide G.O. No 292 dated 24 January 1874. Rs 715 for one completed - Sanction for 3 more asked for. Estimate and plan ready	Recommended	Recommended

Quarter Master Generals Office
Octacamund 3rd October 1884

A Hutchins Major
Offg Depy Quarter Master General

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Accompaniment to Original
2556 W.a/18 October 1884

2556-57

Eastern District	Madras	1	Gun Powder mills alterations and additions to	2556/2557	830
		2	Coast Batteries completion of		2500
		3	Armament Fort Saint George mounting of 4		2500
	St Thomas' mount	4	Barracks Royal Artillery completion of		37750
Western District	Malapuram	5	Barracks for detachment		1,2610
Bangalore Division	Bangalore	6	Entrenchment		100
			Ordnance Depôt		16780
	Trichinopoly	7	Accommodation for two Regiments Native Infantry combined		21140
Eastern Dt.	Madras	8	Quarters for Warrant and Non Commissioned Officers Comb. Depts.		6740

Class B. Works of special urgency not yet commenced, for which funds are absolutely required.

Command	Station	Item No.	Work	Cost	Remarks
Eastern District	Fort St George	1	Gymnasium British Infantry Fort Saint George	11570	
Bangalore Dn	Bangalore	2	Accommodation Native Cavalry Regiment	2960	
	Wellington	3	Bakery for depôt (including Latrine)	2000	
	Bangalore	4	Accommodation for one Native Infantry Regiment (less Magazine)	1660	
Bangalore Dn	Bangalore	5	Additions to the Military Prison	2335	
Ceded Districts	Bellary	6	Water Supply to Barracks Royal Artillery and British Infantry	3000	An Estimate for Rs 27,630 received, & returned for revision

Original Ltr. No. 2556/2557 W dt 15/10/84

Read the following papers —

Military Works
Budget 1885-86.

QUARTERMASTER-GENERAL'S OFFICE
Ootacamund,
3d October 1884.

No. 1487/A.

From

THE QUARTERMASTER-GENERAL,

To

THE Secretary to Government
Public Works Department

2556/2557

SIR,

I have the honor, by order, to forward herewith the schedules of Military works, Major and Minor, required to be provided for in the Budget List of 1885-86, together with a List of the more important Major Works classified as per margin.

Class A. Works actually in progress to complete which grants are wanted.

Class B. Urgent works not yet commenced, for which grants are required.

Given, and entered in the order of their urgency, which His Excellency the Commander-in-Chief would wish submitted for the special consideration of Government with the following observations :-

Class A. The works under this classification being actually in progress, the necessity of suitable grants being allotted for their completion needs no comment.

Class B - I. Last year it was hoped that the first two items in this class, viz: "Gymnasium, British Infantry, Fort Saint George" and accommodation, Native Cavalry Regiment, Bangalore,

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would,

would, by the opening of the current year, belong to Class A, but this hope has not yet been realized, His Excellency would therefore urge upon Government the necessity of providing funds at an early date for the commencement of these important works.

II. Item No 3. "Bakery at Wellington" was also expected to belong to Class A this year, but this has not been the case up to date, and as, in His Excellency's opinion, the work is one of special urgency, he hopes Government will allot funds at an early date for its commencement.

III. Item No 4. "Accommodation for a Native Infantry Regiment, Bangalore". The 4th Regiment N.I. for whom these buildings are required, have arrived at Bangalore and are now engaged in building their Lines at that Station, and it is very desirable that funds should be allotted as soon as possible so that a Commencement may be made for providing the necessary subsidiary buildings.

IV. Item No 5. "Military Prison at Bangalore". This work is in His Excellency's opinion, of great importance and very urgent and he therefore hopes funds will be provided for it next year.

V. Item No 6. "Water Supply to Barracks Royal Artillery and British Infantry, Bellary". This is a work the importance of which is strongly urged by the Medical Authorities.

VI. Item No 7. "Armorers' shop 2nd Light Cavalry Bellary". This is a work very much needed and of real importance, and should not be delayed.

2556/257

VII. Item No 8. "Store rooms and Workshops for the Pioneer Regiment at Bangalore". It having been decided that a Pioneer Regiment shall be always located at Bangalore, and as the 1st Madras Pioneers may be expected to arrive there in the course of a few months, it is very desirable that these buildings should be furnished for their equipment &c as soon as possible.

VIII. Item No 9. "Stabling for Royal Artillery 2 Batteries, Saint Thomas' Mount". The Commander-in-Chief would again urge upon Government the great importance of having their horses properly sheltered, and accordingly recommends an early allotment of funds for the commencement of this work.

IX. Item nos: 10 and 11. Additional Hospital accommodation for women and children" and a "Church" at Wellington. These are urgent requirements and should therefore not be delayed.

Provincial

X. Item No 12. "Coffee Shops Royal Artillery Saint Thomas' Mount". These are in His Excellency's opinion urgently required for the two

two Field Batteries at Saint Thomas' Mount.

2. The other works in the schedule, although not entered in class B, are nevertheless, considered to be really necessary, and it is only because an undue demand for funds would have to be made in connection with them, that they are omitted therefrom.

3. In conclusion, His Excellency would strongly urge upon Government the necessity, from the foregoing remarks, of appealing to the Government of India for a large and liberal grant for Military Works in the coming year, so that none of the many important original works included in Class B may be allowed to stand over any longer.

I have the honor to be.
Sir
Your Obedient Servant
A Hastings
Major
Dr Quarter Master General.

Encl
Nil

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2556/2557

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From

The Quarter Master Genl

To

The Secretary to Govt

Public Works Deptt.

Dated 3 October

Rect 5 "

No: 2556/2557 dt 18.10.84

No: 1487 A

Enclosures 3.

Forwards Budget List of Major and Minor Works

OL Sr 10.: M 4/10
Returned to C. T. 10. 84

Genl Secl

PUBLIC WORKS DEPARTMENT.

A/

No 2556

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 18th October 84.

2556/2557

READ the following

From The Quarter Master General - H.E. No: 1487A dt 3rd October 1884.

Office Note from the Supt. Engr. I Circle - H.E. No: 2622 dt 8th October 1884

do - from the Examiner P.W. Accts. H.E. No: 506 dt 9th October 1884.

G.O. No. 994 Mis dt 2 " " "

Ordered that the schedules of Military requirements on account of Public Works under Buildings and Roads in the Madras Presidency for 1885-86, be forwarded to the Govt. of India in the Military Department.

Ordered also that the lists of Military Works be printed and circulated to Superintending Engineers, in view to the necessary ~~plans and estimates~~ projects being prepared in detail and submitted for sanction.

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The Superintending Engineers should lose no time in ~~preparing~~ and submitting the necessary plans and estimates for the works sanctioned

sanctioned works included in the schedules as none of them can find place in the Budget estimates for 1885-86 unless thousand estimates have been sanctioned.

H. E. No 2557 W dy 18 Oct 1884

From

To Secy to the Govt of India
Military Dept.

Sir,

In forwarding the accompanying Pers. of the Govt No 2556 W dy 18th Oct 1884, with schedules of demands on account of Military Works for 1885-86, I am directed to solicit the particular attention of the Govt of India to para 3 of the Govt Genl's letter No 1487/a dy 3 Oct 1884, conveying the strong recommendation of H.E. the Commr in Chief that a liberal grant may be made for this service.

I have &c

Lt Col
11.10.84

Lt Col
13.10.84

(1)

Secy Military Dept

15 W

To
Supdg. Engineers
Examiner P.W. Accts
Military Deptt.
Financial Deptt.

PW 20

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2556
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Govt. of {1884} Madras.

PUBLIC WORKS,

(747)

Dated

Encl.

Encl.

G.O., 18th Oct 1884, No. 2555

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2nd 18/10

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