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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No. 278 W Press.

B.P. No. Mis.

5.2.1885

Dated 5.3.1885 198 .

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278/1

5TH FEBRUARY 1885, No. 278 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From the Quartermaster-General, dated 7th November 1884, No. 1991.

ABSTRACT.—Forwarding plan and estimate for the construction of a magazine for the 16th regiment, native infantry, at Vizianagram.

Endorsement by the Military Department, dated 10th November 1884, No. 5525.

No. 1924 C., Public Works.

Forwarded to the Superintending Engineer, I Circle, for revision of the provision for lightning conductors, in the light of appendix A to standard specifications of the Public Works Department. The type design on which the project is based does not meet the requirements of appendix A, according to which the height of terminals in the design is insufficient, or their position should be shifted, or a central terminal should be added.

(Signed) C. BOWEN, Major, R.E.,
21st November 1884. Deputy Chief Engineer.

From Lieutenant-Colonel P. MONTGOMERIE, R.E., Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 20th January 1885, No. 384 V.Z.

With reference to your memorandum No. 1924 C., dated 21st November 1884, I have the honor to resubmit the plan and estimate, amounting to Rs. 1,580, for the construction of a magazine for the 16th regiment, native infantry, at Vizianagram, a central terminal being added to the building.

ORDER—dated 5th February 1885, No. 278 W., Public Works.

The estimate, amounting to Rs. 1580, for constructing a magazine for the 16th regiment, native infantry, at Vizianagram, is sanctioned, for execution when funds are available.

2. This sanction has been registered as Imperial Ordinary No. [illegible] of 1884-85 and classified as Military Original Works.

(True Extract.)

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

To the Superintending Engineer, I Circle, with four enclosures.
„ Examiner, Public Works Accounts.
„ Military Department.

Exd. F. Fernandez.

Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1885) Madras.

PUBLIC WORKS.

Dated February, 5th.

Recd. *Encl.*

G.O., 5th Feb. 1885, No. 278 W.

FEBRUARY.

Magazine for the 16th Native Infantry Regiment, Vizianagrum

Estimate for —, sanctioned.

278/2

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.
Eastern District.	Madras ...	1	Gunpowder mills, alterations and additions to.	RS. 1,89,830	
		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 artillery, completion of.	1,27,750	
Western District.	Malápuram.	5	Barracks for detachment. ...	1,31,610	
Bangalore Division.	Bangalore ...	6	Entrenchment ... ... Ordnance depôt	16,100 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.
Eastern District.	Fort St. George.	1	Gymnasium, British infantry, Fort St. George.	RS. 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	

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

Command.	Station.	Item No.	Work.	Cost.	Remarks.
Ceded Districts.	Bellary ...	6	Water-supply to barracks, Royal artillery and British infantry.	Rs. 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	Additional 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. 2622.
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

GENERAL.
ACCOUNT.

Govt. of (1884) Madras.
PUBLIC WORKS.

Dated October, 18th.

Recd. *Encl.*

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

OCTOBER.

Military Works for 1885-86

Orders on schedules of demands on account of—.

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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.					Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks.
						Major Works.			Minor Works.	Total.						
						Works in progress.	New Works.	Total.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for troops—Buildings for European troops in the plains—Permanent	Presidency ..	Fort St. George.	1	Converting a racket court into a covered gymnasium.	B.	..	11,570	11,5	..	..	..	..	..	..	..	Estimate of Rs. 11,570 sanctioned in G.O., No. 590 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	5,0	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	3	Drainage of fort and barracks	B.	..	10,000	10,0	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	4	Wash-house outside the barracks	B.	..	2,500	2,5	..	..	..	..	..	..	..	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	4,5	..	..	..	..	..	..	..	Do.
	Chingleput ..	St. Thomas' Mount.	6	New barracks for Royal artillery	A.	30,000	..	30,0	..	..	..	..	..	..	..	Estimate of Rs. 1,36,650 sanctioned in G.O., No. 288 W., dated 4th February 1884. Item No. 1 class A works, budget of 1884-85.
	Do. ..	Do. ..	7	Coffee shops, three in number, one for each—north, south and the new artillery barracks.	B.	..	9,000	9,0	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	8	Constructing six blocks of stables for two field batteries of Royal artillery.	A.	10,160	..	10,1	..	..	..	..	..	..	..	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	5,00	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Palláváram ..	10	One mortuary room for each of the three hospitals, Nos. 1 to 3.	B.	..	3,000	3,00	..	..	..	..	..	..	..	Do.
	Presidency ..	Bangalore ..	11	Additions to the military prison	B.	..	8,325	8,3	..	..	..	..	..	..	..	Estimate of Rs. 8,325 sanctioned in G.O., No. 938 W., dated 5th April 1884.
	Do. ..	Do. ..	12	Quarters for a school master and mistress, Royal artillery.	B.	..	6,200	6,20	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	13	Fourth-class gymnasium	B.	20,000	..	20,00	..	..	..	..	..	..	..	Estimate of Rs. 44,600 sanctioned in G.O., No. 1550, dated 21st June 1876.
	Bellary ..	Bellary ..	14	Water supply to barracks, Royal artillery and British infantry.	B.	..	3,000	3,00	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	15	Alterations and additions to the military provost prison in the fort and to the adjoining disused liquor godowns.	B.	..	11,266	11,26	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	16	Swimming bath for 2nd battalion, Royal Fusiliers.	B.	..	12,600	12,60	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	17	New gun shed with collar maker's and wheel shop combined for the Royal artillery.	B.	..	5,663	5,66	..	..	..	..	..	..	..	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	6,14	..	..	..	..	..	..	..	Estimate of Rs. 6,140 sanctioned in G.O., No. 320 W., dated 7th February 1884.
	Nilgiri ..	Wellington ..	19	Additional hospital accommodation for women and children.	B.	..	5,000	5,00	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	20	Gymnasium	B.	..	21,355	21,5	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	21	Drinking water to be laid on to hospital ..	B.	..	5,600	5,60	..	..	..	..	..	..	..	Do.
	Coimbatore ..	Malapuram ..	22	Barracks for detachment, British infantry ..	A.	40,000	..	40,00	..	..	..	..	..	..	..	Estimate of Rs. 1,31,010 sanctioned in G.O., No. 580 W., dated 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.	..	4,600	4,6	..	..	..	..	..	..	..	Estimate of Rs. 4,600 sanctioned in G.O., No. 418, of 10th February 1876.
	Do. ..	Do. ..	24	Improving latrines for the British infantry ..	B.	..	2,780	2,78	..	..	..	..	..	..	..	Estimate of Rs. 2,780 sanctioned in G.O., No. 1050, dated 4th April 1879.
Accommodation for troops—Buildings for native troops.	Vizagapatam ..	Vizianagram ..	25	Regimental store-room including storage for the camp equipage.	B.	..	5,000	5,00	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	26	Three public latrines for the use of the native infantry regiment.	B.	..	3,150	3,15	..	..	..	..	..	..	..	Do.

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

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Class.	Original Works.					Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks.
						Major Works.			Minor Works.	Total.						
						Works in progress.	New Works.	Total.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for troops—Buildings for native troops—*cont.*	Presidency ..	Madras ..	27	Additional sepoy huts for the native infantry regimental lines at Perambur.	B.	..	27,400	27,400	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	28	Four latrines for the native infantry regimental lines at Perambur.	B.	..	4,000	4,000	..	..	..	..	..	..	..	Do.
	Do. ..	Bangalore ..	29	Public buildings for a regiment of native cavalry.	B.	..	25,237	25,237	..	..	..	..	..	..	..	Estimate of Rs. 25,237 sanctioned in G.O., No. 47 W., dated 10th January 1884. Item No. 24 of class B works, budget for 1884-85.
	Do. ..	Do. ..	30	Accommodation for one regiment of native infantry.	B.	..	14,610	14,610	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	31	Store-rooms and workshops for the Pioneer regiment.	B.	..	3,000	3,000	..	..	..	..	..	..	..	Do.
	Chingleput ..	Pallávaram ..	32	New lines for one regiment of native infantry ..	B.	..	33,000	33,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	33	Regimental magazine for a native infantry regiment.	B.	..	4,600	4,600	..	..	..	..	..	..	..	Do.
	Bellary ..	Bellary ..	34	Armourer's shop, Light cavalry	B.	..	2,695	2,695	..	..	..	..	..	..	..	Estimate of Rs. 2,695 sanctioned in G.O., No. 2266 W., dated 14th September 1881. Item No. 25 of class B works, budget of 1884-85.
	Do. ..	Do. ..	35	School-house for the 27th regiment, native infantry.	B.	..	3,030	3,030	..	..	..	..	..	..	..	Estimate of Rs. 3,030 sanctioned in G.O., No. 149 W., dated 17th January 1884.
	Coimbatore ..	Quilon ..	36	Store-room for native infantry	B.	..	5,000	5,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	37	Magazine for native infantry barracks	B.	..	3,000	3,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	38	Latrine with wells for native infantry barracks.	B.	..	3,150	3, 50	..	..	..	..	..	..	..	Do.
	Trichinopoly ..	Trichinopoly ..	39	Constructing public buildings for two regiments of native infantry.	A.	21,140	..	21,140	..	..	..	..	..	..	..	Estimate of Rs. 35,050 sanctioned in G.O., No. 2194 W., dated 5th September 1884. Item No. 2 of class B works, budget for 1884-85.
Ordnance Works..	Presidency ..	Fort St. George.	40	Armament of Fort St. George	A.	30,000	..	30,000	..	..	..	..	..	..	..	Estimate of Rs. 42,035 sanctioned in G.O., No. 2970 W., dated 19th October 1883. Item No. 6, class A works, budget for 1884-85.
	Do. ..	Madras ..	41	Demolishing and re-erecting the present wheel shops of the gun-carriage factory at Madras.	B.	..	7,350	7,350	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	42	Extra accommodation as store-rooms in the gun-carriage factory.	B.	..	6,000	6,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	43	Improvements to the gunpowder factory ..	A.	20,000	..	20,000	..	..	..	..	..	..	..	The total sanction of estimates amounts to Rs. 2,48,492. Item No. 7, class B works, budget for 1884-85.
Commissariat Buildings.	Do. ..	Do. ..	44	Quarters for warrant and non-commissioned officers of the Commissariat Department.	A.	11,740	..	11,740	..	..	..	..	..	..	..	Estimate of Rs. 26,740 sanctioned in G.O., No. 1536 W., dated 31st May 1883. Item No. 3 of class B works, budget for 1884-85.
	Do. ..	Do. ..	45	Constructing a shed in the camp equipage depôt.	B.	..	5,300	5,300	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	46	Lines for 17 petty officers and 175 cattle attendants attached to Transport Department.	B.	..	48,000	48,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	47	Godown for workshops and sheds for keeping 90 army transport and 24 ambulance carts, doolies &c.	B.	..	5,500	5,500	..	..	..	..	..	..	..	Do.
	Do. ..	Bangalore ..	48	Quarters for a Conductor, Transport Department.	B.	..	4,220	4,220	..	..	..	..	..	..	..	Do.
	Chingleput ..	Guindy ..	49	Converting the late Superintending Engineer's office at Guindy into a Commissariat slaughter-house.	B.	..	11,800	11,800	..	..	..	..	..	..	..	Estimate of Rs. 11,800 sanctioned in G.O., No. 1399 W., dated 12th May 1884.
	Do. ..	Do. ..	50	Quarters for station butcher	B.	..	4,740	4,740	..	..	..	..	..	..	..	Estimate awaited.
	Nilgiri ..	Wellington ..	51	Bakery	B.	..	27,000	27,000	..	..	..	..	..	..	..	Estimate of Rs. 32,000 sanctioned in G.O., No. 1888 W., dated 29th July 1884.
Fortifications ..	Presidency ..	Bangalore ..	52	Constructing a fortified post and ordnance depôt at Agaram.	A.	2,800	..	2,800	..	..	..	..	..	..	..	Estimate of Rs. 34,280 sanctioned in G.O., No. 3060 W., dated 30th October 1883. Item No. 4, class B works, budget for 1884-85.
				Total ..		1,85,840	3,99,745	5,85,585	80,194	6,65,779	*3,70,000	2,38,228	10,358	..	12,84,365	

* Includes Rs. 20,000 on account of municipal taxes on military buildings.

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

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.

Division or District.	Station.	Description of buildings, &c., and for what corps, 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 Officers Commanding Divisions or Districts.	Remarks by the Commander-in-Chief.
Bangalore Division.		*Transport Department.*	RS.			
	Bangalore ...	I. Accommodation for 200 mule saddles and 35 sets of harness. II. Sheds for 58 carts, 12 dhollies and 14 light carts. III. Sheds for 50 sick carts ... ... IV. A room for veterinary medicines and instruments.	1,545	Urgently required, as the whole of the sick carts, dhoolies, &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 carts, dhoolies, undoubtedly deteriorate by being kept in the open.	Very necessary.
		Royal Artillery.				
	Do. ...	A new latrine for the Staff Sergeant's quarters for Horse Artillery, the present one being old and condemned on sanitary grounds.	2,100	Required on sanitary grounds ...	Urgently required on sanitary grounds as reported by the committee in 1882.	Very necessary.
	Do. ...	Quarters for a Battery Quartermaster Sergeant, Royal Horse Artillery.	1,100	....	Conversion recommended as approved by His Excellency the Commander-in-Chief last year.	Approved.
	Do. ...	Cook-house for Sergeant's Mess of two field batteries.	1,470	Very necessary	A very necessary requirement.	Necessary.
	Do. ...	Latrine with [illegible] seats for the use of two field batteries.	620	Necessary for use of men at stables.	Urgently required	Do.
	Do. ...	Stone drains to forage-yard and lines, Royal Horse Artillery.	1,440	Sanctioned when funds are available. Considered 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 approved of.

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.
Division—*cont.*		*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		*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.				
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.
	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.
	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 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.
District—*cont.*		*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, Ráyapuram.				
	Do. ...	One latrine on the north side of the regimental lines at Ráyapuram.	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.
	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.
District—*cont.*		*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.
	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.

278/16

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.*	Mangalore ...	*Barracks—Native Infantry.* 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.	RS. 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.
Under Execution.	Bellary ...	*Royal Artillery and British Infantry.* 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.
Ceded Districts—*cont.*	Bellary ...	*Station Hospital.* 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.
	Do. ...	*2nd Cavalry.* 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.
	Do. ...	*25th Regiment Native Infantry.* 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 Subadurbeb" fails every summer. It is now being deepened but does not promise well. The water is of doubtful quality.	Very necessary.
	Do. ...	*27th Regiment Native Infantry.* 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.
	Do. ...	*Commissariat Department.* 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.
	Do. ...	*Barrack Department.* 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			

OOTACAMUND,
3rd October 1884.

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

C. No 738.

Note by Budget Section

work. Magazine for the 16th Regiment
Native Infantry at Vizianagram.

Fund - Imperial
Service Head - Military
Departmental Head - Original Works
Amount of Estimate —— Rs 1530
Expenditure in previous year -
Allotment in current year -
Balance required to complete -

Totals 1530

Note of available funds

No funds are available under Imperial Military.

The Estimate may be sanctioned for execution during 1885-86 from the minor works grant to the Division concerned.

Budget Clerk

6/2.

Note by Budget Section

Sanction
CS
3.2.85

Public Works Department, 1884-85

16/2

Current No. 238
Letter No. 334 W.G.
Dated the 20th January 1885
From the S.E. I Circle

NOTE OF REMARKS.

1. The accompanying plan and estimate for the construction of a Magazine for the 16th Regt. N.I. at Vizianagram have been resubmitted with reference to E.W.D. Memo. No. 19246. of the 21st Nov. 1884. The estimate now amounts to Rs. 1530.

2. As directed in the above named Memo. the provision for lightning conductors has been made according to appendix A to the standard Specifications of the D.P.W. — Three terminal rods have now been provided each rising 6 feet

above outer surface of roof - and placed one at either extremity of the roof, and one in the center.

2nd Feb /85.

I think the Estimate should be sent back to the S.E. for revision of the provision for lightning conductors, in the light of Report, Appendix A of Standard Specifications. S.E. to be informed that the type design on which he based his project ~~was published~~ ~~does not meet the requirements of Report Appendix A~~ ~~before the issue of the Report~~ according to which the height of terminals in design is insufficient, or their position should be shifted, or ~~there~~ a central terminal added.

C.Y.
20.11.84

Public Works Department, 1884-85.

17/218

Current No. [illegible]
Letter No. 3525
Dated the 24 November 84
From the [illegible]

NOTE OF REMARKS.

The accompanying plan and estimate provide for constructing a gunpowder magazine for the 10th Madras N. Infantry at Vizianagram in the Vizagapatam District. The estimate amounts to Rs. 550.

2. The length of the proposed magazine exceeds that of the Standard sanctioned in G.O. No. 2584 W. of the 3rd Sept /83, by 4 ft. the outside length of the proposed magazine = 23 ft, that of the standard 19 feet. No explanation is given on the subject.

3. The length of the

terminal rods of the
lightning conductors
were 5 feet. If the rods
are placed at the ea
the ridge of the roof,
each must measure
11½ ft – if each be with-
drawn 5 ft. inwards,
then a height of 5 feet
is ample for each
& the plans and estimate
have been considerably red
by this for the same

17th Nov/84
B.W.

To Dot

The plan & estimate are based on the type design for a Municipal Powder magazine –

It will be seen from the letter with No 1230 d/ 10.11.84 that the Supdg. Engr. of [illegible] Works has yet issued a design for a [illegible] magazine.

The present estimate has been approved by the Commr. in Chief.

17.11.84 Ev.

P. W. D. 18/278

No. 1924 Cap 21st November /84

Memo

No 5525 d/ 10 Nov 1884

Endorsement by the Military Dept. on letter from the Dy. Mily. Genl. No 1991 S d/ 7 idem, forwarding plan & estimate for the construction of a magazine for the 16th Regt. N. I. at Vizianagram×.

× C No 9376

/6

Forwarded to the Supdg. Engr. I Circle for revision of the provision for lightning conductors in the light of Appendix A to Standard Specifications of the P. W. Dept. The type design on which the project is based does not meet the requirements of Appendix A, according to which the

the height of terminals
in the design is insufficient,
or their position should
be shifted, or a
~~central~~ terminal should
be added.

(C)
21-11-84

No 1830 C a/10-11-84
G.O. 2556 W a/18-10-84
C 3002 W a/24-10-83
No 18 C a/9-1-84

No 1924 C a/21-11-84

to the S.E. I circle, with
papers in orig^l. Ch
returned.

No 334 V/3

From,
The Superintending Engineer
1st Circle.

To,
The Chief Engineer
Public Works Department
Madras.

Sir,
Dowlaishweram 20th January 1885
Desp 21st

With reference to your Memorandum No 1924 E. dated 21st November 1884, I have the honor to resubmit the Plan and Estimate[x] for the construction of a Magazine for the 16th Regiment Native Infantry at Vizianagram, a central terminal being added to the building.

[x] amounting to Rs 1530.

I have the honor to be
Sir
Your most Obedient Servant
Lieut Col R.E.
Superintending Engineer 1st Circle

From

The Supg Engineer
I Circle

To

The Chief Engineer
D.P.W.
Madras

28 JAN 85

Dated 20th
Desp. 21st
Recd
} January 1885

No 334 Vz

Encls. 4

Magazine for the 16th Regiment N. I. at Vizianagram

—

Resubmits the Plan & estimate for the Construction of a —

No. 278 W

PUBLIC WORKS DEPARTMENT.

2/3

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 5th February 85.

READ the following

Letter from the Dt. Magistrate (No. 1991 dated 27 Novr 84)
Endt. by the Mily. Deptt. (" 5525 " 10th " ")
Memo to the Supdg Engr. I Circle (" 1324 C " 21st " ")
Letter from do do (" 334 Vz " 20th Jany 85)

The estimate amounting to Rs 1530, for constructing a Magazine for the 16th Regt. Native Infantry at Vizianagram, is sanctioned, for execution when funds are available.

2. This sanction has been registered as Imperial Ordinary

No. 63 Map 1884-85,
And Classified as
Military Original
Works

CS
5.2.85

W
5.2.85

B.H.

S. C. E. [illegible]
with 4 enclosures
Eng. P. W. A. S.
Mily. Dept.
Dated 11.2.85

2/278

758

Govt. of 1885 Madras.

PUBLIC WORKS.

Recd 5-8