(1) Number of pages 28

(2) Date of repair Dec 1987

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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

PWS

DEPARTMENT

G.O. No. / ~~B.P. No.~~	541 (MS)	Press. / ~~Mis.~~
Dated	11.3.1886	~~198~~ .

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Archives —1 10,006-9 89

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

641
1

Buildings and Roads.
Military Works.

READ—the following papers :—

From T. D. HARRIS, Esq., Executive Engineer, Vizagapatam division, to the Superintending Engineer, I Circle, Dowlaishweram, dated Waltair, 9th December 1885, No. 1301.

With advertence to your endorsement, No. 324 G.L., dated 25th November 1885, on G.O., No. 2445 W., dated 20th October 1885, I have the honor to inform you that the Commandant of the 16th Regiment, Madras Native Infantry, at Vizianagrum, writes to say that the armourer's workshops said to be very necessary for the use of the regiment there (*vide* page 6 of appendix to the above Government order) are not required, as the present one fully answers all the purposes for which it is required.

No. 207 V.Z.

Copy submitted to the Chief Engineer, Public Works Department, with reference to G.O., No. 2445 W., of 20th October 1885, and the schedules therewith forwarded.

DOWLAISHWERAM, 11th January 1886.

(Signed) C. C. RAWSON, Captain, R.E.,
for Superintending Engineer, I Circle.

From the Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 3rd March 1886, No. 828 A.

In returning the enclosures of your reference order, No. 484, of the 21st ultimo, I have the honor, by order, to state that a new armourer's workshop for the Madras Infantry Regiment at Vizianagrum is not required, as the existing one meets all requirements.

2. This item may therefore be struck out of the list of minor works in page 6 of appendix to proceedings of Government, No. 2445 W., of 20th October 1885 (Military Department, No. 6049, of 30th idem).

No. 1447, Military.

Transferred to the Public Works Department, and the previous paper returned.

(By Order.)

FORT ST. GEORGE, 5th March 1886.

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

ORDER—dated 11th March 1886, No. 641 W., Public Works.

The construction of a new armourer's workshop for the Madras Infantry Regiment at Vizianagrum being considered unnecessary, the work will be eliminated from the list of minor works appended to proceedings of Government, No. 2445 W., dated 20th October 1885.

(True Extract.)

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

To the Superintending Engineer, I Circle.
" Military Department.
Exd. E. Fernandez.
Spare Copies.

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1886) Madras.

PUBLIC WORKS.

Dated March, 11*th*.

Read. *Encl.*

G.O., 11th March 1886, No. 641 W.

MARCH.

Armourer's Workshop for the Madras Infantry Regiment at Vizianagrum

The work of constructing a new — ordered to be struck out of the list of minor works appended to proceedings of Government, No. 2445 W., dated 20th October 1885.

20TH OCTOBER 1885, No. 2445 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 Ootacamund, 7th October 1885, No. 3351 A.

I have the honor to forward herewith schedules of requirements in Military Works, Major and Minor, in view to provision being made to such extent as is possible for them in the Public Works Department budget for 1886-87.

2. The major works have been classified as noted below, the works in class B being entered in order of their urgency, while those in class C are grouped according to commands :—

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

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

Class C.—Works of less urgency, but for which provision should be made as funds are available.

3. The following remarks, regarding works in class B, are submitted for the special consideration of Government :—

I. The urgency of items Nos. 1 and 2 has been passed upon Government for two years past, and it was only the special demand for retrenchment in the current year that has interfered with their execution.

(1) Gymnasium, British Infantry, Fort St. George.
(2) Addition to Military Prison, Bangalore.

II. Item No. 3 is a defence work the necessity of which was urged by Sir F. Roberts, with whom the Provincial Commander-in-Chief fully concurs in opinion. It would have been carried out in current year had it not been for the restrictive orders mentioned in the previous paragraph.

(3) Drawbridge, &c., Fort, Vellore.

III. The urgency of items Nos. 4, 5, 8, 9 and 14 was mentioned to Government last year, and General Rowlands hopes that funds for them will be found in the next budget.

(4) Improving water-supply, British Infantry Barracks, Bellary.
(5) Store-room and workshop, Pioneer, Bangalore.
(8) Accommodation one Madras Infantry Regiment, Bangalore.
(9) Accommodation for women, in hospital, Wellington.
(14) Coffee-shops, Royal Artillery, St. Thomas' Mount.

IV. Item No. 6 is one which must be provided for, as the existing store-room is in a very bad state.

(6) New store-room, Madras Infantry, Quilon.

V. Item No. 7 is a new work the necessity for which has just arisen in connection with providing properly for storage of powder near Madras, the Veysarpady magazine having been condemned. By the proposed alterations in the magazine at St. Thomas' Mount, it will be possible to store 2,044 additional barrels of powder there. This work should therefore not be delayed.

(7) Alterations to racks in magazine, St. Thomas' Mount.

VI. Item No. 10 is a work connected with the use of the Fort as a place of defence, and should be provided for, as until it is carried out the garrison of the Fort cannot depend on a supply of good water being stored for its use in time of need.

(10) Improving water-supply, Fort St. George.

VII. Item No. 11 is a work which has been sanctioned by the Government of India, and though it is not yet decided whether it shall be carried out or whether an entrenchment shall take its place, it would be as well that funds should be provided for it in the coming year.

(11) Wall round Gunpowder Factory, Madras.

VIII. Item No. 12 is a work the necessity for which has been brought forward for several years by the Ordnance Department and should not be delayed.

(12) New wheel-shop, Gun Carriage Factory.

IX. The old quarters having been dismantled as they were found to be unsafe, the work of their reconstruction, item No. 13, should be carried out as soon as possible, for it is very essential that medical subordinates should live near their work.

(13) Reconstruction Apothecaries' quarters, station hospital, Bellary.

X. It is not yet quite decided whether an Ordnance Depôt is to be maintained in the entrenchment at Bangalore or not; but as the buildings would have to be provided at once, if the depôt is to be maintained, item No. 15 is included in the list of works of special urgency.

(15) Additional buildings, Ordnance Depôt entrenchment, Bangalore.

4. The length of the schedule of minor works speaks for itself and will confirm the remarks made in this office letter, No. 2803 A., of 4th ultimo, on the subject of these works, it being noted, moreover, that in this schedule the numerous works costing under Rs. 500 are not included.

5. This fact reminds the Provincial Commander-in-Chief of the necessity for asking that in future years Government will be good enough to provide a sufficiently large grant for these minor works costing Rs. 500 and under, to enable allotments to be made not only to general officers commanding divisions and districts, but to the Commissary-General and Inspector-General of Ordnance, so that those officers may be in a position to arrange for execution of works of this nature in their respective departments without trenching on the allotments of general officers commanding.

CLASS A.

Works commenced, for completion of which grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				Rs.	
Eastern district.	Fort St. George.	1	Armament—Mounting, &c.	42,000	Amounts of estimates are given, the amounts required in next year for completing the works not being known in this office.
		2	Beach batteries completing.	14,265	
	St. Thomas' Mount.	3	Barracks, Royal Artillery, new.	1,27,750	
		4	Stabling, Royal Artillery, new.	20,160	
Bangalore division.	Bangalore.	5	Agram entrenchment works.	20,490	
		6	Accommodation—Public buildings, Native Cavalry.	29,600	
	Wellington.	7	Bakery—new	32,000	
	Trichinopoly.	8	Accommodation—Public buildings two Madras Infantry Regiments.	21,140	
Western district.	Malapuram...	9	Barracks—new ...	1,34,214	

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General

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CLASS B.

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

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				Rs.	
Eastern district.	Fort St. George.	1	Gymnasium—British Infantry.	11,570	Estimates already sanctioned by Government.
Bangalore division.	Bangalore...	2	Additions—Military Prison.	8,325	
Eastern district.	Vellore ...	3	Drawbridge, &c.—Fort.	6,450	
Ceded districts.	Bellary ...	4	Improving system of water-supply — British Infantry barracks.	5,350	Estimate prepared.
Bangalore division.	Bangalore...	5	Store-rooms and workshops—Pioneers.	3,000	
Western district.	Quilon ...	6	New store-room—Madras Infantry.	9,334	Estimate already sanctioned by Government.
Eastern district.	St. Thomas' Mount.	7	Alterations to racks in the Ordnance Magazine.	2,505	Estimate now before Government.
Bangalore division.	Bangalore...	8	Accommodation—Public buildings one Madras Infantry Regiment.	14,610	Estimates already sanctioned by Government.
	Wellington.	9	Hospital accommodation—Women and children.	3,036	
Eastern district.	Fort St. George.	10	Improving water-supply.	6,445	Estimate now before Government.
	Madras ...	11	Wall round Gunpowder Factory.	10,000	Work sanctioned but estimate not yet submitted.
		12	New wheeler shop—Gun Carriage Factory.	7,350	Estimates already sanctioned by Government.
Ceded districts.	Bellary ...	13	Reconstructing double Apothecaries' quarters—Station hospital.	6,222	
Eastern district.	St. Thomas' Mount.	14	Coffee-shops—Field Battery, upper story barracks Royal Artillery.	6,690	
Bangalore division.	Bangalore...	15	Ordnance Depôt buildings, entrenchment—Bangalore.	4,823	Estimate prepared but held in abeyance pending decision of Government regarding maintenance of Ordnance Depôt at Bangalore.

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

CLASS C.

List of works of less urgency not yet commenced, for which also grants are required.

Command.	Station.	Work.	Cost.	Remarks.
			Rs.	
Eastern district.	Fort St. George.	Drainage—Fort barracks ...	10,000	
		Washhouse outside barracks ...	2,500	
		Garrison bazaar to be done away with and new cook-houses built.	4,500	

List of works of less urgency not yet commenced, &c.—*cont.*

Command.	Station.	Work.	Cost.	Remarks.
			Rs.	
Eastern district—*cont.*	St. Thomas' Mount.	Wheeler and Collar makers' shop, new—Royal Artillery barracks.	5,660	Estimates already sanctioned by Government.
		Raising roof, &c., harness-room—Troop lines.	4,200	
	Pallávaram.	Mortuary rooms—Hospitals ...	3,000	
		Magazine—Native Infantry Regiment.	4,500	
	Poonamallee.	Lightning conductors to hospital.	3,000	Estimate before Government.
	Madras ...	Flushing drains — Rayapuram, Madras Infantry lines.	4,300	
		Extra store-room in Gun Carriage Factory.	6,000	
		Improving Barrel machine shop—Gun Carriage Factory.	4,030	Estimate already sanctioned by Government.
		Shed for tent manufacture in Camp Equipage Depôt.	5,300	
		Lines for transport attendants ...	48,000	
		Workshops and sheds for carts, doolies, &c.—Transport Department.	5,500	
		Converting Superintending Engineer's office, Guindy, into slaughter house.	11,800	
		Quarters for station butcher ...	4,740	
	Vizianagram.	Regimental store-room—Madras Infantry.	3,480	
		School master and mistress' quarters—Royal Artillery.	6,200	
Bangalore division.	Bangalore.	Quarters—Senior Apothecary, north station hospital.	5,300	Estimates already sanctioned by Government.
		Quarters—Assistant do.	4,773	
		Do. Conductor, Transport Department.	4,220	
			21,835	
	Wellington	Gymnasium ...	4,690	Estimate before Government.
		Drinking water to be laid on to hospital.	7,348	Estimate already sanctioned.
		Quarters for a Barrack Sergeant.	11,260	
Ceded districts.	Bellary	Alterations to prisons and adjoining buildings.	5,663	Estimate already sanctioned by Government.
		New gun-shed with Collar-makers' and Wheelers' shop for Royal Artillery.	7,644	Estimate before Government.
		Swimming-bath—British Infantry.	3,030	
		School-house for a regiment—Madras Infantry.	6,140	
		Infectious disease ward—Station hospital.	4,690	Estimates already sanctioned.
Western district.	Cannanore	Plunge-bath—British Infantry ...	2,780	
		Improvement, latrines—British Infantry.		

Ootacamund,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

Office note from the Examiner of Public Works Accounts, dated 14th October 1885, No. 565.

Order—dated 20th October 1885, No. 2445 W., Public Works.

Ordered that the schedules of military requirements on account of the Public Works Department in the Madras Presidency for 1886-87 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 plans and estimates being prepared and submitted at an early date for the unsanctioned works included in the lists.

(Here enter No. 2446 W., dated 20th October 1885.)

(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. J. Henriques.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of [1885] Madras.

PUBLIC WORKS.

Dated October, 20th.

Rect. *Encl.*

G.O., 20th Oct. 1885, No. 2445 W.

OCTOBER.

641 W

Schedules of Military requirements for 1886-87

Orders on —.

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Appendix to G.O., No. 2445 W., dated 20th October 1885.

BUILDINGS AND ROADS.

Statement of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87.

Head of classification	Executive division.	Locality.	Item No.	Projects and works.	Class.	Original estimate. Major works. Works in progress.	Original estimate. Major works. New works.	Original estimate. Minor works. Total.	Remarks.
Accommodation for troops—Buildings for European troops in the Interior—Permanent.	Chingleput.	St. Thomas' Mount.	1	New barracks for Royal Artillery.	A	Rs. 27,173	Rs. ..	Rs. ..	Estimate of Rs. 1,49,510 was sanctioned in G.O., No. 1571 W., dated 2nd June 1885, Item No. 1, class A works, budget of 1885-86. Estimate of Rs. 27,173 was sanctioned in G.O., No. 2274 W., dated 1st October 1885, Item No. 1, class B works, budget of 1885-86. Estimate of Rs. 1,38,214 was sanctioned in G.O., No. 1552 W., dated 18th July 1885, Item No. 1, class A works, budget of 1885-86. Estimate of Rs. 77,197 sanctioned in G.O., No. 1552 W., dated 18th July 1885, Item No. 1, class B works, budget of 1885-86. Estimate of Rs. 8,295 was sanctioned in G.O., No. 938 W., dated 6th April 1884, Item No. 1, class B works, budget of 1885-86. Estimate awaited.
	Do.	Do.	2	Constructing six blocks of double bar two field batteries of Royal Artillery.	A	1,030	..	..	
	West Coast	Malapuram.	3	Constructing a barracks for a detachment of British Infantry to accommodate 30 men.	A	19,535	..	..	
	Presidency	Fort St. George.	4	Converting a racket court into a covered gymnasium.	A	2,800	..	..	
	Do.	Bangalore..	5	Additions to the Military Prison.	B	..	8,321	..	
	Bellary	Bellary ...	6	Improving the system of water-supply to British Infantry barracks.	B	..	6,850	..	
	Nilgiri	Wellington.	7	Hospital accommodation for women and children.	B	..	9,000	..	
	Presidency	Fort St. George.	8	Improving water-supply.	B	..	6,445	..	

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Accommodation for troops—Buildings for Native troops.

Head-quarters.	Station.	Locality.	No.	Troops.	Projects and works.	Class.	Major works.			Minor works.	Total.	Repairs, petty works, and purchase.	Remarks.	Details.
							Work-charged establishment.	New works.	Total.					
Bellary	Bellary		9	Horse artillery.	Excavating foundations, and erecting quarters for Native officers.	B	Rs. 6,832	Rs. ..	Rs. 6,832	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate of Rs. 6,221 was sanctioned in G. O., No. 1552, dated 3rd November 1884. Revised in G.O., No. 1299 W., dated 16th June 1885.
Do.	Do.		10	Do.	Constructing a cookhouse, hospital, and shop with kitchen for the upper story barracks.	B	..	6,890	..	..	..	..	..	Estimate of Rs. 8,870 was sanctioned in G.O., No. 1626, dated 4th April 1879. Item No. 19, class C works, budget of 1883-84. Estimate of Rs. 13,950 was sanctioned in G.O., No. 1632 W., dated 26th June 1884. Item No. 4, class B works, budget of 1883-84. Estimate of Rs. 25,660 was sanctioned in G.O., No. 2194 W., dated 6th September 1884. Item No. 3, class A works, budget of 1885-86. Estimate is awaited.
Do.	Do.		11	Do.	Improving latrines for Native troops.	C	..	10,000	..	..	..	..	..	
Do.	Do.		12	Do.	Watering cattle, &c.	C	..	2,305	..	..	..	..	..	
Do.	Do.		13	Do.	Extending barrack-boundary wall.	C	..	4,493	..	..	..	..	..	
Do.	Do.		14	Do.	Constructing latrines and bathing-places.	C	..	2,000	..	..	..	..	..	
Do.	Do.		15	Do.	Improving latrines.	C	..	1,200	..	..	..	..	..	
Do.	Do.		16	Do.	Constructing cookhouses and latrines.	C	..	3,000	..	..	..	..	..	
Do.	Do.		17	Do.	Improving latrines.	C	..	2,000	..	..	..	..	..	
Do.	Do.		18	Do.	Improving latrines.	C	..	6,300	..	..	..	..	..	
Do.	Do.		19	Do.	Improving latrines.	C	..	6,300	..	..	..	..	..	
Do.	Do.		20	Do.	Improving latrines.	C	..	4,379	..	..	..	..	..	
Do.	Do.		21	Do.	Improving latrines.	C	..	91,833	..	..	..	..	..	
Do.	Do.		22	Do.	Improving latrines.	C	..	4,000	..	..	..	..	..	
Do.	Do.		23	Do.	Constructing quarters with out-houses for a Native Sergeant.	C	..	7,348	..	..	..	..	..	Estimate of Rs. 7,318 was sanctioned in G.O., No. 1911 W., dated 21st August 1883. Estimate is awaited.
Bellary	Do.		24	Do.	Alterations to prisons and additional buildings.	C	..	11,260	..	..	..	..	..	
Do.	Do.		25	Do.	New gun-shed with collar-maker and watchers' shop for the Royal Artillery.	C	..	6,663	..	..	..	..	..	Estimate of Rs. 6,653 was sanctioned in G.O., No. 914 W., dated 3rd April 1884. Item No. 14, class C works, budget of 1884-85.
Do.	Do.		26	Do.	Swimming-bath, British Infantry.	C	..	7,644	..	..	..	..	..	Estimate of Rs. 7,644 was sanctioned in G.O., No. 2134 W, dated 15th October 1885.
Do.	Do.		27	Do.	Infectious disease ward, station hospital.	C	..	6,140	..	..	..	..	..	Estimate of Rs. 6,140 sanctioned in G.O., No. 830 W., dated 7th February 1884.
West Coast.	Cannanore.		28	Do.	Plunge-bath for British Infantry.	C	..	4,640	..	..	..	..	..	Estimate of Rs. 4,640 was sanctioned in G.O., No. 413, dated 16th Feb. 1876. Item No. 16, class C works, budget of 1883-84.
Do.	Do.		29	Do.	Improving latrines for British Infantry.	C	..	2,730	..	..	..	..	..	
Presidency.	Bangalore.		30	Public buildings for a regiment of Native Cavalry.	A	17,730	..	..	..	..	..	..	..	
Trichinopoly.	Trichinopoly.		31	Public buildings for two regiments of Native Infantry.	A	19,641	..	..	..	..	..	..	..	
Presidency.	Bangalore.		32	Store-rooms and workshops for the Ordnance Regiment.	B	..	3,000	..	..	..	..	..	..	
West Coast.	Ootacamund.		33	Constructing a regimental store-shed.	B	..	9,334	..	..	..	..	..	..	Estimate of Rs. 9,334 was sanctioned in G.O., No. 1526 W., dated 3rd July 1886. Item No. 32, class C works, budget of 1885-86. Estimate of Rs. 21,630 sanctioned in G.O., No. 2962 W., dated 23rd November 1884. Estimate is awaited.
Presidency.	Bangalore.		34	Public buildings for one regiment of Native Infantry.	B	..	21,630	..	..	..	..	..	..	
Chingleput.	Pallavaram.		36	Magazine for a Native Infantry Regiment.	C	..	4,600	..	..	..	..	..	..	Estimate of Rs. 4,300 sanctioned in G.O., No. 1997 W., dated 4th June 1884.
Presidency.	Madras (Egmore).		36	Flooring drains for Native Infantry Lines.	C	..	4,300	..	..	..	..	..	..	
Vizagapatam.	Vizagapatam.		37	Regimental store-room for Native Infantry.	C	..	3,480	..	..	..	..	..	..	Estimate of Rs. 3,480 was sanctioned in G.O., No. 2628 W., dated 27th October 1884. Item No. 23, class C works, budget of 1883-86.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87—cont.

Head-quarters.	Station.	Locality.	No.	Troops.	Projects and works.	Class.	Major works.			Minor works.	Total.	Repairs, petty works, and purchase.	Remarks.	Details.
							Work-charged establishment.	New works.	Total.					
Bellary	Bellary		9	Horse artillery.	Excavating foundations, and erecting quarters for Native officers.	B	Rs. 6,832	Rs. ..	Rs. 6,832	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Estimate of Rs. 6,221 was sanctioned in G. O., No. 1552, dated 3rd November 1884. Revised in G.O., No. 1299 W., dated 16th June 1885.
Do.	Do.		10	Do.	Constructing a cookhouse, hospital, and shop with kitchen for the upper story barracks.	B	..	6,890	..	..	..	..	..	Estimate of Rs. 8,870 was sanctioned in G.O., No. 1626, dated 4th April 1879. Item No. 19, class C works, budget of 1883-84. Estimate of Rs. 13,950 was sanctioned in G.O., No. 1632 W., dated 26th June 1884. Item No. 4, class B works, budget of 1883-84. Estimate of Rs. 25,660 was sanctioned in G.O., No. 2194 W., dated 6th September 1884. Item No. 3, class A works, budget of 1885-86. Estimate is awaited.
Do.	Do.		11	Do.	Improving latrines for British Infantry.	C	..	10,000	..	..	..	..	..	
Presidency.	Fort St. George.		12	Do.	Watering cattle, &c.	C	..	2,305	..	..	..	..	..	
Do.	Do.		13	Do.	Extending barrack-boundary wall.	C	..	4,493	..	..	..	..	..	
Do.	Do.		14	Do.	Constructing latrines and bathing-places.	C	..	2,000	..	..	..	..	..	
Chingleput.	St. Thomas' Mount.		15	Do.	Improving latrines.	C	..	1,200	..	..	..	..	..	
Do.	Do.		16	Do.	Constructing cookhouses and latrines.	C	..	3,000	..	..	..	..	..	
Do.	Do.		17	Do.	Improving latrines.	C	..	2,000	..	..	..	..	..	
Presidency.	Bangalore.		18	Do.	Improving latrines.	C	..	6,300	..	..	..	..	..	
Do.	Do.		19	Do.	Improving latrines.	C	..	6,300	..	..	..	..	..	
Do.	Do.		20	Do.	Improving latrines.	C	..	4,379	..	..	..	..	..	
Do.	Do.		21	Do.	Improving latrines.	C	..	91,833	..	..	..	..	..	
Do.	Do.		22	Do.	Improving latrines.	C	..	4,000	..	..	..	..	..	
Nilgiri	Wellington		21	Grounding	Improving water to be led on to hospital.	C	..	91,833	..	..	..	..	..	
Do.	Do.		22	Do.		C	..	4,000	..	..	..	..	..	

Estimate of Rs. 3,209 was sanctioned in G.O., No. 2125 W., dated 25th November 1884. Item No. 20, class C works, budget of 1885-86. Estimate is awaited.

Do.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87—contd.

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Works in progress.	Major works.		Minor works.	Remarks.
							New works.	Total.		
						Rs.	Rs.	Rs.	Rs.	
Ordnance works.	Accommodation for troops — Buildings for Native troops—*contd.*	Bellary	38	School-house for a regimental Native Infantry.	C	..	3,000	..	..	
		Bellary ..	38	Armament of Fort St. George.	A	2,924	..	..	..	
		Fort St. George.								
		Madras ..	40	Alterations in the coast batteries.	A	4,035	..	..	..	
		St. Thomas' Mount.	41	Alterations to make in the Ordnance Magazine.	B	..	2,595	..	..	
		Madras ..	42	Wall round the Gunpowder Factory.	B	..	10,000	..	..	
		Do. ..	43	New shooting shop, Gun Carriage Factory.	B	..	7,370	..	..	
		Bangalore.	44	Ordnance Depôt, building, entrenchment.	B	..	4,923	..	..	
		Madras .	45	Extra accommodation at Bangalore.	C	..	6,000	..	..	
		Do. ..	46	Store-room in the Gun Carriage Factory.	C	..	2,061	..	..	
		Do. ..	46	Improvements to the hydraulic-machine shop of the Gun Carriage Factory.	C	..	..	..	..	
		Nilgiri ..	47	Bakery ..	A	414	..	..	..	
		Wellington.								

Head of classification.	Executive division.	Locality.	Item No.	Projects and works.	Class.	Works in progress.	Major works.		Minor works.	Remarks.
							New works.	Total.		
						Rs.	Rs.	Rs.	Rs.	
Commissariat buildings.		Presidency.	Madras ..	48	Outbuildings, a shed in the Camp Equipage Depôt.	C	..	..	5,300	
		Do. ..	Do. ..	49	Grain for transport attendants	C	..	..	18,000	
		Do. ..	Do. ..	50	Workshops and sheds for carts, doolies, &c., Transport Department.	C	..	..	6,600	
		Chingleput.	Guindy ..	51	Converting the late Superintending Engineer's office at Guindy into a slaughter-house.	C	..	..	11,300	
		Do. ..	Do. ..	52	Quarters for a station butcher.	C	..	..	6,740	
		Presidency.	Bangalore.	53	Quarters for a Conductor, Transport Department.	C	..	..	4,220	
		Presidency.	Bangalore.	54	Fortified post at Agram.	A	5,000	..	..	
Fortifications.		North Arcot.	Vellore ..	55	Drawbridge and gate for the Fort at Vellore.	B	..	6,450	..	
					Total ..	..	1,08,872	3,25,250	4,34,122	1,00,000

Head of classification.	Rank and file.	Staff and Police.	Native officers.	British officers.	Grand total.	Remarks.
	No.	No.	No.	No.	No.	
Ordnance works.						Estimate of Rs. 3,030 was sanctioned in G.O. No. 1447 W., dated 7th January 1884, Item No. 31, class C works, budget of 1884-85.
						Estimate for Rs. 12,000 sanctioned in G.O. No. 1899 W., dated 15th October 1885, Item No. 2, class A works, budget of 1885-86.
						Estimate of Rs. 1,338 sanctioned in G.O. No. 2248 W., dated 11th September 1885. Estimate for Rs. 10,000 sanctioned in G.O. No. 2249 W., dated 11th September 1885. Estimate for Rs. 7,370 sanctioned in G.O. No. 2248 W., dated 11th September 1885. Estimate is awaited.
						Estimate for Rs. 4,923 sanctioned in G.O. No. 2250 W., dated 11th September 1885. Estimate of Rs. 1,750 sanctioned in G.O. No. 2250 W., dated 11th September 1885. Estimate for Rs. 2,061 sanctioned in G.O. No. 2248 W., dated 11th September 1885. Estimate is awaited.
						Do.
						Estimate of Rs. 1,020 sanctioned in G.O. No. 2249 W., dated 11th September 1885.
						Estimate for Rs. 29,000, sanctioned in G.O. No. 1838 W., dated 29th July 1884.

Head of classification.	Rank and file.	Staff and Police.	Native officers.	British officers.	Grand total.	Remarks.
	No.	No.	No.	No.	No.	
Commissariat buildings.						Estimate is awaited.
						Do.
						Do.
						Estimate of Rs. 11,500 sanctioned in G.O. No. 1939 W., dated 12th May 1885, Item No. 4, class C works, budget of 1885-86. Estimate is awaited.
						Do.
						Estimate of Rs. 37,200 sanctioned in G.O. No. 1950 W., dated 29th May 1885. Further estimates are said to be under preparation.
						Estimate of Rs. 6,450 sanctioned in G.O. No. 628 W., dated 7th March 1885.
Fortifications.						
	5,94,122	3,90,000	2,03,248	3,240	..	10,90,810

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 1886-87.

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Eastern district.	Fort St. George	Store-room, forge workshop—Arsenal.	520	When funds are available.
	Do.	Railings to miscellaneous workshop, &c.—Arsenal.	790	
	Do.	A new bridge across trench in new park—Arsenal.	810	
	Do.	Improving store godowns—Arsenal.	700	Very necessary. Estimates already sanctioned by Government.
	Do.	Improving store godowns—Arsenal.	847	
	Do.	Alterations to lower story barracks for armourer shop.	2,367	Very desirable.
	Do.	Mess-house verandah—Completion of.	1,900	
	Do.	L. Room alterations for theatre	1,000	When funds are available.
	Madras	Ordnance store-room—Beach	1,250	Necessary.
	Do.	Huts, infectious disease—Station hospital.	750	When funds are available.
	Do.	Dispensary—Veterinary Department, Body Guard.	1,300	
	Do.	Regimental school—Perambúr lines, Madras Infantry.	1,375	
	Do.	Armourer shops — Perambúr lines, Madras Infantry.	2,000	
		Commissariat Department.		
	Madras	Godown, wheat, &c.	1,785	When funds are available.
	Do.	Drainage—Bakery premises	950	
	Do.	Gram-boiling shed—Mule lines.	1,500	
	St. Thomas' Mount.	Commissariat—Well, &c., Public Cattle Depôt.	1,200	
	Do.	Royal Artillery—Lightning-conductor magazine.	1,500	Most important.
	Do.	Lide houses—Horse lines	1,542	Very necessary. Estimate before Government.
	Do.	Closing up archway, gun-shed—P Battery, 1st Brigade.	560	Very necessary.
	Do.	Reconstruction latrines, family quarters — Q Battery, 1st Brigade.	...	In progress during the current official year. Item No. 25 of Appendix B to G.O., No. 1563 W., dated 6th July 1885.
	Do.	Improvements to Sergeant's quarters—Reserve Powder Magazine.	530	*Vide* G.O., No. 1233 W., dated 28th May 1885. Very necessary.
	Pallávaram	Armourer shop—Madras Infantry.	820	When funds are available.
	Do.	Camp Equipage store—Madras Infantry.	1,500	
	Do.	School—Madras Infantry	1,230	
	Poonamallee	Alteration—Barracks	1,000	
	Do.	Wall, new—Family quarters	1,000	
	Vellóre	School-house—Madras Infantry	2,150	Very necessary. Already sanctioned by Government.
	Vizianagrum.	New magazine— do.	1,530	Very necessary.
	Do.	Armourers' workshops—Madras Infantry.	900	Do.

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

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
		Commissariat Department—cont.	Rs.	
Eastern district—*cont.*	Vizianagrum.	Improvements to hospital—Madras Infantry.	515	When funds are available.
	Do.	Improvements to ventilation—Madras Infantry.	545	
	Berhampore	School-house	1,390	Should not be postponed any longer; funds allotted in current year were withdrawn.
Bangalore division.	Bangalore	Royal Artillery—Latrine, Staff Sergeant's quarters, Royal Horse Artillery.	2,100	Very necessary on sanitary grounds.
	Do.	Quarters, Battery — Quartermaster Sergeant, Royal Horse Artillery.	1,100	Desirable.
	Do.	Cook-house—Sergeants' mess, Field Batteries.	1,470	Necessary.
	Do.	Latrine for men—Stables, Field Batteries.	620	
	Do.	Board floor, recreation room—Royal Horse Artillery.	1,240	
	Do.	Stone floor to gun-shed, &c.	1,160	
		British Cavalry.		
	Bangalore	Stone drains—Staff Sergeant's quarters.	564	Necessary. Estimates already sanctioned by Government.
	Do.	Two Riding schools	1,156	
	Do.	Latrine—Six seats for men at stables.	600	Very desirable.
	Do.	Camp Equipage stores—Connecting with water-supply.	1,170	When funds are available.
		British Infantry.		
	Bangalore	Latrine for followers	1,600	Necessary.
	Do.	South station hospital—Quarters for men of Army hospital, Native corps.	924	
	Do.	North station hospital—Quarters for men of Army hospital, Native corps.	756	
		Native Infantry west lines.		
	Bangalore	Improving place of arms and hospital.	700	
		Commissariat Department.		
	Bangalore	Improving Staff Sergeant's quarters.	2,000	When funds are available.
	Do.	Improving Sergeant Butcher's quarters.	525	Very necessary.
	Do.	Improving road from race-course barracks to slaughter-house.	1,400	When funds are available.
		Transport Department.		
	Bangalore	Additions to accommodation in Transport lines.	1,545	Urgently required.
	Do.	Converting Sergeant's quarters into Sub-Conductor's quarters.	1,000	Very necessary.
	Wellington	Renewing floors of latrines and school-block.	1,680	Necessary.

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

Division or district	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			Rs.	
Bangalore division—*cont.*	Wellington ..	Water-supply to bath-rooms, hospital.	600	Desirable. Estimate before Government.
	Do. ...	Bath-rooms for Pay Sergeant ..	2,350	Very necessary.
	Do. ...	Flooring passages from married quarters to latrine.	1,000	
	Do. ...	Enlarging purveyor's stores ...	2,000	
	Do. ...	Cooking stoves for Staff Sergeant's quarters.	600	
	Pulanur ...	Repairs to the rest-house buildings.	850	
Cadel district	Bellary ...	Alterations and additions to Armourers' shop—Light Cavalry Regiment.	700	Urgently wanted. The execution of this work will do away with necessity for new building.
	Do. ...	Renewal floor No. II Magazine, Fort.	616	Very necessary.
	Do. ...	Reflooring Commissariat storerooms with asphalte.	670	
		European Infantry.		
	Cannanore ...	Station hospital—Sinking well.	700	Strongly recommended.
	Malapuram ...	Converting beer godown into a gymnasium for detachment.	790	All very necessary.
	Do. ...	Converting recreation room into cook-house.	514	
	Do. ...	Converting wood godown into a bakery.	595	
	Do. ...	Providing a platform and pump to well.	1,110	
Western district	Calicut ...	New slaughter-house	2,020	All urgent works.
	Do. ...	Converting cook-room into a bakery.	840	
	Do. ...	Converting family quarters into Commissariat Sergeant's quarters.	650	
	Quilon ..	A new magazine—Madras Infantry.	2,380	Very much wanted.
	Do. ...	Renewing floor of hospital ...	1,970	Desirable.
	Do. ...	An Armourer shop—Madras Infantry.	1,700	When funds are available.
	Mangalore ...	Reflooring hospital—Madras Infantry.	695	
	Do. ...	Additions to Armourers' workshop.	790	
	... ..	Lump sum provision for works costing below Rs. 500 each.	14,794	
		Total ...	1,00,000	

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

8

No. 1301.

Vizagapatam Division office
Waltair 9th December 1885

From

The Executive Engineer
Vizagapatam Division

To

The Superintending Engineer
First Circle
Dowlaishweram

Sir,

With reference to your memorandum No. 324 G. D. dated 25th November 1885 on G.O. No. 2445 dated 29th October 85, I have the honor to inform you that the Commandant of the 16th Regiment M. N. I at Vizianagram writes to say, that the Armoury workshops said to be very necessary for the use of the Regiment there, vide page 6 of appendix to the above G.O. are not required as the present one fully answers all the purposes for

9

No. 1301.

From

The Executive Engineer,
Vizagapatam Division.

To

The Superintending Engineer,
First Circle,
Dowlaishweram.

Sir,

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9

M.S.4

Despatch

No. 684

Department of Madras.

MILITARY DEPARTMENT.

21st January 1886.

To

THE ADJUTANT-GENERAL

Forwarded for favour of the opinion of ~~His Excellency~~ the Commander-in-Chief.

(By Order.)

Kenney Herbert Lieut.-Col.,
Offg. Secy. to Govt., Mily. Dept.

N.B.—Only may be endorsed on this letter.

Encl 77
12/86

Log No 2604

which is registered

Thanesar

Sd/ J.D. Harris

Executive Engineer

Vizagapatam 2nd

No. 207 V.2

Copy submitted to the Chief Engineer & Secretary Department with reference to G.O. No. 2445 dated the 28th October 1865 and the schedules thereunto forwarded.

Colombo Cast 12

for

Supdg Engr & Surveyor

Dowlaishwaram

Camp Nallajerla

11th January 1866

10

641
10

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

No. 380

From,

The Supt Engineer
1st Circle

To, The Chief Engineer
Public Works Deptt

Dated 11th } January 1886.
Deptt 11th }

No 207 V-2

Armourer's Work shops at Vizianagaram. — Reports that the — are not required —

Dy No 77
1/2/86

Received.

Dr. Tbo C/20 Jany 86.

Reported to the Military Deptt for favour of the opinion of the Provincial Commander-in-Chief whether in the circumstances reported in the Engineer Sub-Division this work may be postponed.

(Bg Border)

B

Lieut Colonel Capt & Adjt
Quarter Master General

Bn Deptt
20-1-86

To the Military Deptt

F

QUARTERMASTER-GENERAL'S OFFICE,
Ootacamund,
3rd March 1886.

No. 528. A.

From

THE QUARTERMASTER-GENERAL,

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

SIR,

In returning the enclosures of your reference order at No. 484 of the 21st ultimo, I have the honor, by order, to state, that a new Armourer's Workshop for the Madras Infantry Regiment at Vizianagram is not required, and the existing one meets all requirements.

2. This item may therefore be struck out of the List of minor works in page 6 of appendix to P.G. No. 2445 W of 20th October 1885 (Mil. D. No. 6249 of 30 idem.

I have the honor to be,
Sir,
Your obedient Servant,

[illegible] Major,
Deputy Quarter Master General
15/3

Military (1886) Department.

No. 1432

From

The Quartermaster-General,

To

The Secretary to Government,

Military Department.

No. 828 A

Dated 3rd March

Read 5th March

Enclosures. 3.

Relative to new armourers shop for the Madras Infy Regiment at Vizianagram

No 2445 20-10-85.

No. 1447. Transmitted to the Public Works Dept. with the previous papers returned.

(Signed)

A. Kennedy for Lieut Colo

Secretary to Government.

Lieut Colonel Burge
5th Madras Infy

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Public Works Department.

Under date the 9th March 1886

Read the following

From the Supdg. Engineer I Circle. M. E. No: 207 V. Z. dy 11th January 1886.
From the Quartermaster General M. E. No: 828 A dy 3rd March 1886.
Endorsement by the Military Deptt. M. E. No: 1447 dy 5th March 1886.

The construction of a new Armourer's Workshop for the Madras Infantry Regiment at Vizianagram being considered unnecessary, the work will be eliminated from the list of minor works appended to Proceedings of Govt. No: 2445 W dated 20th October 1885.

9/3/86

To
The Supdg. Engr. I Circle
Military Department

Dated 17/3

9-3-86

13

6.4 F
12

MILITARY (1886) DEPARTMENT.

Former papers.

I.G. 30th Dec 1885 Nos 654-655R

No. 452.

From The Lieut: Mrs Departt:

No. 206 C.

Dated 20th
Recd. 21st } January 1886.
Registered

Enclosures.

P. G., No. , dated

Requesting that the works in connection with the Armourers' workshops at Kizilmagram may be postponed.

Dft. 77
1/2/86

No.

691
/14

15

1818

Govt. of Madras.

PUBLIC WORKS.

Letter from Government to Board of Revenue

Copy of Proceedings of Board of Revenue

Re survey enclosure

New ——— ordered to be struck out of the list of surveys appended to Proc. of Govt. No. 2645 of 20th Oct. 1815.

5 0 / 4