(1) Number of pages 62

(2) Date of repair 8-12-87

(3) Initials of the Referencer bvs

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. / B.P. No.	1302, W 1303	Press. / Mis.
Dated	25-5-1886	198 .

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1302/1303

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel E. FAUNCE, Officiating Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 29th April 1886, No. 1662 A.:—

I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, revised estimates, plans, &c., below mentioned which have been approved by the Commander-in-Chief. The plans and estimates have been countersigned:—

Abstract and detailed estimates, amounting to Rs. 30,990, for constructing the following buildings required for a regiment of Madras Cavalry at Bangalore, with four plans, report and specification:—

	Rs.
Place-of-arms and armourers' shop	9,370
Horse infirmary	6,560
Guard-room and cells	4,099
School-room	1,780
Forage yard	2,675
Road and culverts	1,865
Drains	3,525
Planting trees and levelling ground	1,125
Total ...	30,990

No. 2617, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

OOTACAMUND,
30th April 1886.

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

ORDER—dated 25th May 1886, No. 1302 W., Public Works.

The revised estimate, amounting to Rs. 30,990, for constructing public buildings for a regiment of Native Cavalry at Bangalore, is sanctioned in supersession of the estimate of Rs. 23,490 sanctioned in G.O., No. 1552 W., dated 20th June 1884.

2. The revision of the estimate is due chiefly to the sanctioned increase in the strength of a Native Cavalry regiment, and to change of site and other trifling alterations which are detailed in the report.

3. This sanction has been registered as Imperial, Ordinary No. 6 W., of 1886-87, and classified as Military, Original Works.

4. Ordered that a copy of these proceedings be forwarded to the Government of India, Military Department, for information, with advertence to their letter No. 528 M.W., dated 30th May 1884.

(Here enter No. 1303 W., dated 25th May 1886.)

(True Extract.)

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

To the Superintending Engineer, V Circle, with eleven enclosures.
" Examiner, Public Works Accounts, with the general abstract estimate.
" Military Department.

Exd. P. L. Pereira.
Spare Copies

7/1307

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated May, 25th.

Recd. *Encl.*

G.O., 25th May 1886. No. 1302 W.

MAY.

Public Buildings for a Native Cavalry Regiment at Bangalore

Revised estimate of Rs. 30,990 for constructing —, sanctioned.

GOVERNMENT OF MADRAS.

3/1303

PUBLIC WORKS DEPARTMENT.

13th January 1882, No. 106 W.

Buildings and Roads.
Military Works.

Read the following paper :—

No. 58. Endorsement of the Acting Secretary to Government, Military Department, dated Fort. St. George, 9th January 1882, No. 83.

From Brigadier General H. O'CONNELL, Quartermaster-General, to the Secretary to Government, Military Department, dated Bangalore, 21st December 1881, No. 8772.

I HAVE the honor, by desire of His Excellency the Commander-in-Chief, to submit, for the consideration and orders of Government, the advisability of making immediate arrangements for the permanent location of the 1st Light Cavalry at Bangalore, and for erecting the necessary buildings, lines, &c.,

2. This Regiment returned from Southern Afghanistan in May last, and was sent to Bangalore as the best locality for it, there being no vacant lines for a Native Cavalry Regiment at any station in the Madras Presidency. The former station of this Regiment, Secunderabad, has been occupied by the 3rd Light Cavalry, withdrawn from Saugor.

3. The 1st Light Cavalry is at present temporarily located in some of the buildings belonging to the British Cavalry at Bangalore, but as these will be required for the 12th Lancers early in March 1882, it will be necessary to provide accommodation elsewhere for the 1st Light Cavalry.

4. There is good ground at the south-east corner of the Cantonment of Bangalore for the location of the Regiment, on the spot known as the Arab Lines, which was formerly used as a Brigade Parade Ground, but is no longer required for that purpose. The ground slopes gradually from north to south, is naturally dry and well drained, while water in any quantity for men and horses is obtainable from tanks near and from wells on the low ground. There is ample space on the ground for hutting lines, horse lines, saddle-room, place of arms, hospital, &c. It is well clear of bazaars and of buildings occupied by British Troops, and is conveniently situated as regards the Agram plain, which is the only ground available as a Parade Ground for a Cavalry Regiment.

5. There are no public buildings on the spot that could be utilized, and all that is required will have to be built. The cost will be considerable, but as it is one that will have to be undertaken, His Excellency the Commander-in-Chief would recommend that the matter be submitted to the Government of India, with a view to a special grant of funds being made for the purpose.

6. The men's lines should be substantially built on the system advocated in this office letter published in Proceedings of Government, No. 3123, dated 10 June 1881.

7. It seems certain that a Regiment of Native Cavalry will be permanently located at Bangalore. This was proposed by the Army Organization Commission in 1879, and there is no doubt the place is an excellent one for the location of a Native Cavalry Regiment. One was stationed here until 1862, when requirements further north led to the Regiment being withdrawn. The ground formerly occupied by Native Cavalry at Bangalore is now appropriated by the Sappers and Miners.

TRANSFERRED to the Public Works Department, with an expression of opinion in the Military Department, that early steps should be taken to obtain the sanction of the Government of India for the provision of funds for the erection of the buildings referred to in the foregoing letter.

(By Order.)

(Signed) E. L. HANKIN, Colonel,
Ag. Secy. to Govt., Mily. Dept.

No. 59. ORDER THEREON, 13th January 1882, No. 106 W.

COMMUNICATED to the Superintending Engineer, Fifth Circle, who will submit as quickly as possible, in communication with the Military Authorities, plans and estimates for the required buildings.

(True Extract.)

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

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

Exd. S. T. Austin.
Spare Copies

4/1303

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1882} Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
FIFTH CIRCLE,

&c., &c., &c.

Dated January, 13th.

Issued

Recd. *Encl.*

G.O., 13th January 1882, No. 106 W.

JANUARY.
Nos. 58-59.

Erection of buildings, &c., for the permanent location of the 1st Regiment Light Cavalry at Bangalore.—Endorsement, Military Department, stating that early steps should be taken to obtain the sanction of the Government of India for the provision of funds for the —, communicated to the Superintending Engineer, Fifth Circle, for submission of the plans and estimates for the required buildings.

5/1303

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

From Colonel H. L. PRENDERGAST R.E., Superintending Engineer, Fifth Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 12th December 1882, No. 3239.

I have the honor to submit, for orders, plans and estimates for lines and regimental buildings for the Native Cavalry Regiment at Bangalore as called for in G.O., No. 106 W., dated the 13th January 1882.

28 Detailed Estimates with Abstracts.
1 General Abstract Estimate.
7 Plans.
1 Specification.
1 Copy of letter from Quartermaster-General.
1 Original letter from the Executive Engineer, Presidency.

The opinion of His Excellency the Commander-in-Chief is conveyed in the enclosed copy of letter, No. 9550, dated 22nd November 1882, from the Quartermaster-General, and the Executive Engineer's explanation is given in his letter, No. 1-A, of the 8th instant.

2. Taking the items in the order of His Excellency's remarks, the lines in general and the Farrier's quarters are considered to be too expensive; but the whole question of hutting the Native Army is about to be submitted to the Government, and in the meantime nothing can be done in the way of revision. The Executive Engineer has taken for a general standard the lines of the 15th Regiment Native Infantry at Bangalore, but some extra space has been given to the uncovered enclosure for each house, on which account extra rent has been proposed to be taken from all ranks.

3. *Item No.* 12, *Regimental School.*—The building may be reduced in size and cost about Rs. 950 instead of Rs. 1,590 as desgned.

Item No. 13, *Forge.*—This may be reduced to about Rs. 1,450 from Rs. 3,490.

There is no standard plan for Items 12, 13 or 18, and the Executive Engineer took as a guide the standard plans for British Cavalry.

Item No. 18, *Gram-boiling Shed.*—The estimate may be reduced from Rs. 3,065 to about Rs. 2,300.

Item No. 22, *Drains.*—Are subject to alteration in connection with the lines generally.

Item No. 27, *Riding Schools.*—Were provided in the estimate, as desired by the Military authorities, with whom the Executive Engineer was in communication.

Items Nos. 11, 17 *and* 28, *Hospital Buildings.*—Are on standard plans; the latter, the hospital itself, is on the plan for Native Infantry, there being no standard for Native Cavalry.

Item No. 19, *Horse Lines.*—The Executive Engineer has shown on the plan the arrangement for roofed stables being built, if required hereafter; but has estimated for only the walled-in enclosure.

4. Ten items are approved by His Excellency, but I have some observations to make upon them.

Items Nos. 10, *Sick Stables;* 15, *Latrines; and* 26, *Armourer's Shop.*—Are on standard plans.

Item No. 9, *Water Trough.*—Is not provided for in the standard statement of accommodation for troops. There are troughs for the horses of the Lancers and Artillery at Bangalore, and this provision is asked for by the Military Officers there, as well as

Item No. 14, *Forage Yard, and No.* 21, *Granary,* which are not entered in the standard statement.

Item No. 16, *Wells.*—Must necessarily be provided.

Item No. 23, *Saddle-rooms, Place-of-Arms, &c.*—The plan is taken from the standard for British Cavalry, and includes a store-room. For Native Cavalry the standard statement of accommodation provides for bells-of-arms, and the store-room is attached to the quarter-guard.

Item No. 24.—The *Magazine* is larger in all three dimensions than that entered in standard statement of accommodation, and the estimate may be reduced from Rs. 2,810 to about Rs. 2,400.

Item No. 25, *Guard-room and Cells.*—The standard accommodation is for quarter-guard and store-room, cells being separate. The Executive Engineer includes a lock-up or prisoner's room in the building, with cells attached, so as to reduce the sentry duty. But the quarter-guard room is 50 feet by 16 as compared with 28 feet by 12 on the standard list, and the estimate may probably be reduced from Rs. 4,645 to about Rs. 4,000.

ENCLOSURES.

From Lieutenant-Colonel J. EWING, Officiating Quartermaster-General, to the Superintending Engineer, Fifth Circle, dated Fort St. George, 22nd November 1882, No. 9550.

The plans and estimates for the construction of lines, &c., for the 1st Light Cavalry at Bangalore having been laid before His Excellency the Commander-in-Chief, I am desired to forward them to you with the following observations, which I am to ask may accompany them when submitted for the orders of Governmen.

These are a great deal too expensive, and, in the opinion of His Excellency the Commander-in-Chief, far beyond the requirements of Native Troops. The general question of hutting for the Native Army is about to be submitted for the consideration of Government, and the requirements of the 1st Light Cavalry can be disposed of in connection with this.

	Rs.
Items Nos. 1 to 8, Lines for Men	1,28,410
Item No. 20, Farrier's Quarters	13,990
Total ..	1,42,400

This seems to His Excellency to be on a rather more expensive a scale than usually accepted for such buildings, including furniture.

	Rs.
Item No. 12, School	1,590

This provides on a too expensive and costly scale for these requirements of a Native Cavalry Regiment, which requires no more than a simple shed with two forges, the horses being shod outside.

	Rs.
Item No. 13, Forge	3,990

This, too, seems on an unnecessarily expensive scale.

	Rs.
Item No. 18, Gram-boiling Shed	3,685

Most of these are wanted in connection with the men's lines, and should be considered with them.

	Rs.
Item No. 22, Drains	6,220
Item No. 27, Riding Schools	150
Item No. 11, Dead-house	870
Item No. 17, Hospital Assistant's Quarters ..	1,135
Item No. 28, Hospital	11,870
Total ..	13,925

It seems quite unnecessary to expend funds on walled-in riding schools.

These may be required hereafter, but if the Station Hospital system for Native Troops is introduced, merely a temporary detention-room and perhaps a Hospital Assistant's quarters will be all that is wanted near the lines.

Lines enclosed with good high walls are desirable at Bangalore, the wind there being high and continuous for several months in the year. The plans appear to show roofed stables, though the estimate does not provide for more than a walled enclosure.

	Rs.
Item No. 19, Horse Lines	4,610

	Rs.
Item No. 9, Water Trough	510
Item No. 10, Sick Stables	7,500
Item No. 14, Forage Yard	1,170
Item No. 15, Latrines	3,300
Item No. 16, Wells	2,320
Item No. 21, Granary	1,050
Item No. 23, Saddle-rooms, Place-of-Arms, &c. ..	18,000
Item No. 24, Magazine	2,810
Item No. 25, Guard-room and Cells	4,645
Item No. 26, Armourer's Shop	2,080
Total ..	43,385

The remaining items, as per margin, are approved. As by the opening of next official year, before which it is presumed no funds can be made available, the regiment will have been almost two years at Bangalore, His Excellency the Commander-in-Chief trusts that a special grant of funds may be sanctioned, so that the execution of the several buildings absolutely required for the permanent accommodation of the regiment may be pushed on rapidly.

From Lieutenant-Colonel W. H. BURTON, R.E., Executive Engineer, Presidency Division, to the Superintending Engineer, Fifth Circle, dated Chepauk, 8th December 1882, No. 1-A.

Your No. 3091, dated 30th November 1882, enclosing Quartermaster-General's letter, No. 9550, dated 22nd November 1882, and other papers connected with the Native Cavalry Lines estimate.

1 Copy of Letter.	1 Specification.
1 Statement.	1 General Abstract.
28 Estimates, with Abstracts, &c.	8 Plans.

I have the honor to state my instructions were (*vide* G.O., No. 106 W., dated 13th January 1882) to prepare estimates for lines for 1st Light Cavalry "in communication with the Military authorities," that is, so far as I could act, in communication with the Assistant Quartermaster-General, Bangalore, and the Officer Commanding 1st Regiment Light Cavalry. Also, it was of course necessary for me to observe the correspondence printed in conjunction with the above Government Order. In this I find mentioned as required, &c., "Hutting lines, horse lines, saddle-room, place-of-arms, hospital, &c. All that is required will have to be built. Men's lines to be substantially built, Proceedings of Government, No. 3123, dated 10th June 1881; houses of Native Officers to be separated from those of the men, a little distance from them. All the Non-commissioned Officers to have a house each, three-fourths of the privates to have a house each, one-fourth of the privates to live in barracks; lines" (*i.e.*, I presume above buildings) "will have to be raised, drained, good roads made" (*i.e.*, I presumed between the lines) "buildings safe from fire, not to be damp, and must meet the requirements of sanitation."

All which instructions were sufficiently ample and definite, if the plans and estimate, prepared in accordance therewith, were not to be criticised by the light of some other directions not indicated to me before the date of my submitting these plans and estimates.

However, all the plans and estimates have been compared and criticised with so-called standard plans, and which I was not told to follow.

Items 1 *to* 8.—My instructions did not, I admit, in so many set words say I was to "design and estimate according to the 15th Native Infantry Lines" at this station; but the tenor of the accompaniment to G.O., No. 106 W., dated 13th January 1882, and Proceedings of Government, No. 3123, dated 10th June 1881, led me to be quite sure that the new buildings required here were to be generally similar to those of the 15th Native Infantry Lines; and had I designed buildings essentially different, therefore, I could not have obtained the Lieutenant-General's approval to them.

	Are designed. I.	15th Native Infantry Lines being. II.
Subadar's house (less)	10 × 12 = 480	13 × 37 = 481
Jemadar (more)	30 × 12 = 360	13 × 27 = 351
Havildar (more)	20 × 12 = 240	13 × 17 = 221
Houses for Naigue (less)	16 × 12 = 192	13 × 15 = 195
Private (the same)	13 × 12 = 156	13 × 12 = 156

The small extra spaces thus given to Jemadars and Havildars, and the extra spaces in the courtyards to all ranks, involving no roofing, was, I submit, in accordance with the requirements as told me by the local Military authorities, and compensated for by a slight decrease by monthly rental, extra to that proposed in G.O., No. 3123, dated 10th June 1881, viz., the Officer Commanding 1st Light Cavalry proposed distinctly, with a view to obtaining extra space in the courtyards—

15th Native Infantry.

		RS.	A.	P.			RS.	A.	P.
That his Subadar-Major should pay	... ...	7	0	0	in lieu of		4	0	0
Subadars	„	5	0	0	„		4	0	0
Jemadars	„	3	0	0	„		0	12	0
Havildars	„	1	0	0	„		0	6	0
Naigues	„	0	12	0	„		0	5	0
Privates	„	0	8	0	„		0	4	0

which rates represent, as regards annual rent for these buildings, a capital sum of Rs. 40,100 at 4 per cent. per annum.

Item 28.—As to the width of the hospitals it is designed 20 feet wide in accordance with the latest design Lieutenant Falvey could obtain, viz., the plan approved by the Chief Engineer, Madras, 3rd August 1871.

Item 23.—The plan followed was certainly that for European Cavalry, being more suitable to requirements than the plan for bells-of-arms for Native Infantry. We have no plans for Native Cavalry saddle and store room; hence plans of European Cavalry saddle-rooms was adopted, but only for the number of horses in the Native Regiment of Cavalry, and designed separately as required by the local Military authorities.

The cells were shown attached to the guard-room at the request of the Military authorities at the station, in order to obviate the necessity of an extra sentry.

Item 12, *viz.*, *a Regimental School.*—The plan adopted is for a school for 100 pupils, the number of students being 110. If the building be reduced to one suitable for, say, 60 students, its probable cost will be Rs. 950.

Item 13, *viz.*, *a Forge.*—There is no standard plan available for Native Cavalry, therefore that for European Cavalry was adopted; it may be reduced without sacrifice to efficiency, and if so, would probably cost Rs. 1,450.

Item 18, *viz.*, *Gram-boiling Shed.*—No standard plan is available, therefore the shed for the European Cavalry required at this station was adopted; it may be reduced to one of less size, and would then probably cost Rs. 2,300.

Item 27.—Provision was made for this solely because the local Military authorities required it.

Item 19.—Stables are shown in the plan in lieu of horse lines for the following reasons:—

Quartermaster-General's letter, No. 8772, dated 21st December 1881, clearly indicated "horse lines" as portions of the buildings to be estimated for; this instruction was adhered to exactly, but the Officer Commanding wished it to be shown how stables could be conveniently built on the site at a future date. I did not include the cost in the estimate for the above reasons alone.

The estimate, I submit, is not affected by the Assistant Engineer thus showing where stables could be built at some future date.

Items 9, 14, 21, *viz.*, *Water Trough*, *Forage Yaad, and Granary*, were included in my estimate being strictly in accordance with my instructions, which were "all which is necessary will have to be built;" they were, in the opinion of the local Military authorities, necessary; consequently, even if I differed from these authorities as to the necessity, I felt bound to include them.

As to the estimated cost of the whole, this is of course the quantities multiplied by the rates; the rates are those now prevailing in Bangalore; the quantities I hope I have sufficiently accounted for.

I expect, but I am not certain, however, upon a considerable number of the buildings of this class of work, viz., "mud" and "stone in clay" walls, being ordered for execution, that, upon tenders being called for, the ultimate cost will be found to range from 2 to perhaps 12½ per cent. below the estimated rates.

As regards the unexpectedly large cost of the whole, I would state that the addition to the courtyards of each rank involves an addition of walls of 9 feet each + 26 × 9 feet for the whole regiment, or an additional cost of less than Rs. 4,000, for which Government will obtain buildings of much greater rental value as before explained. But a reduction of about Rs. 2,000 can be made by substituting for brick in clay, or stone in clay, walls not in foundations pise work; "burnt brick in clay" was provided for in all outside walls to avoid in these buildings the frequent necessity experienced in the 15th Native Infantry Lines of repairing the pise work.

P.S.—I return herewith the plans and estimates, and if the proposals regarding the reduction of size, alterations to certain of the buildings are approved request the estimates relating thereto may be sent back to me for the preparation of detail estimates.

No. 75 C.

MEMORANDUM.

Referred, through the Military Department, for the opinion of His Excellency the Commander-in-Chief, whether the estimates, &c., should at once be revised with reference to the enclosed letters from the Quartermaster-General and the Superintending Engineer, or whether the matter should await a decision on the general question of hutting the Native Army.

2. In the papers recorded in G.O., No. 106 W., dated 13th January 1882, the question of providing lines for the 1st Light Cavalry at Bangalore was put forward as urgent.

(By Order.)

CHEPAUK,
10th January 1883.

(Signed) C. C. RAWSON, Captain, R.E.,
Ag. Under Secy. to Govt., P.W.D.

No. 200, Military.

Referred accordingly to His Excellency the Commander-in-Chief.

(By Order.)

11th January 1883.

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

From Lieutenant-Colonel R. C. STEWART, Officiating Quartermaster-General to the Secretary to Government, Military Department, dated Ootacamund, 14th April 1883, No. 97.

In returning the Reference Order from Government, No. 200, dated 10th January 1883, with plans and estimates received therewith, I have the honor, by order, to state that, on a separate reference from the Secretary to Government, Public Works Department, in his memorandum, No. 683 C., dated 24th March 1883, relating to Budget grants for Military Works, His Excellency the Commander-in-Chief has recommended to Government that the buildings at present in occupation of the Light Cavalry Regiment at Bangalore be purchased by Government (the matter of purchase being treated confidentially), for which a sum of Rs. 15,000 was proposed in the budget list.

2. The question of lines for the regiment will be taken up separately.

No. 2215, Military.

Transferred to the Public Works Department and the referred papers returned.

(By Order.)

OOTACAMUND,
16th April 1883.

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

ORDER—dated 29th May 1883, No. 1507 W., Public Works.

Under the circumstances explained by the Chief Engineer, Public Works Department, after personal inspection, the Government are not prepared to purchase the buildings at present occupied by the 1st Light Cavalry Regiment at Bangalore.

2. The Chief Engineer proposes the erection of new lines, the arrangement of which is exhibited on a sketch which has also been generally approved by the Officer Commanding. The proposals are sanctioned, subject to such alteration of details as may, on further examination, be found necessary.

3. From a rough statement which has been prepared by the Executive Engineer, it would appear that, omitting certain items considered unnecessary by His Excellency the Commander-in-Chief, and reducing the cost of the sepoys' huts (to the standard lately approved) and other buildings, the total cost for accommodating the regiment may be brought down from Rs. 1,42,000 to about Rs. 67,500.

4. A further saving of Rs. 13,36[illegible] is practicable should the old materials from the Arsenal in the Fort be made available. This will depend on the decision which may be arrived at in regard to the abandonment of the Bangalore Fort. The matter will be considered in the Military Department with reference to the orders quoted in the margin, and early orders passed.

G.O., No. 2648 W., dated 11th Oct. 1882.
" " 3181 W., " 4th Dec. "

5. The Executive Engineer will lose no time in submitting, for the sanction of the Government of India, a revised project based on the instructions now issued, after discussing the details with the Military authorities concerned.

6. The labor of the sepoys should be utilized in the construction of the lines to the extent contemplated by His Excellency the Commander-in-Chief in the scheme for housing Native Troops which has lately received the approval of the Government of India.

(True Extract.)

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

To the Superintending Engineer, Fifth Circle, with fifty-seven Enclosures.
" Military Department.

Exd. A. F. Goodall.
Spare Copies

8/1305

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated May, 29th.

Recd. *Encl.*

G.O., 29th May 1883, No. 1507 W.

MAY.

Buildings occupied by the 1st Light Cavalry at Bangalore

Passing orders declining to purchase the —.

9/1303

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper :—

G.O., dated 6th July 1883, No. 3774, Military.

Read—the following letter from Lieutenant-Colonel R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated 5th July 1883, No. 507 :—

Adverting to Proceedings of Madras Government, 29th May 1883, No. 1507 W., Public Works, communicated to His Excellency the Commander-in-Chief with G.O., No. 3252, dated 8th June 1883, Military Department, and with reference to paragraphs 2, 3, 5, 6 thereof, I am desired by Sir Frederick Roberts to say that, in His Excellency's opinion, it seems unnecessary for the Department of Public Works to do more than revise the project for providing such public buildings as may be necessary for the accommodation of a Regiment of Light Cavalry, leaving out entirely any project for construction of lines for the men which His Excellency proposes to accomplish through regimental agency.

2. The subject of paragraph 4 of the above order will hereafter form the subject of a separate communication.

Order—dated 6th July 1883, No. 3774, Military.

Communicated to the Public Works Department with reference to Proceedings of Government, No. 1507 W., dated 29th May 1883.

(True Extract.)

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

ORDER—dated 11th July 1883, No. 1935 W., Public Works.

Communicated to the Superintending Engineer, Fifth Circle, for information and guidance in continuation of G.O., No. 1507 W., dated 29th May 1883.

(True Extract.)

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

To the Superintending Engineer, Fifth Circle.
„ Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated July, 11th.

Read. *Encl.*

G.O., 11th July 1883, No. 1935 W.

JULY.

Buildings for the 1st Light Cavalry at Bangalore

Proceedings of the Military Department regarding the provision by the Public Works Department of —, communicated to the Superintending Engineer, Fifth Circle.

10/1303

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 5th November 1883, No. 2778.

With reference to G.Os., Nos. 1507 W. and 1935 W., dated 29th May and 11th July 1883, I have the honor to submit revised plans and estimates, amounting to Rs. 25,100, for buildings for a regiment of native cavalry at Bangalore, viz. :—

5 Plans. | 1 Report.
10 Estimates. | 2 General abstracts.

	Rs.
Regimental school	1,715
Sick stables	5,800
Saddle-rooms, place of arms, with armourer's shop	7,165
Magazine	2,750
Guard-room and cells	3,540
Drains	2,125
Water-trough	510
Wells	2,320
Roads and culverts	1,823
Removing débris and levelling...	1,452
Planting trees	400
	29,600
Deduct value of old materials to be obtained from the fort	4,500
Amount of estimate ...	25,100

2. The estimates have been reduced for the following buildings, viz., sick stables, saddle-rooms, place of arms with armourer's shop, magazines, guard-room and cells ; some drains and several buildings originally provided for are now omitted, viz., lines for horses, farrier's quarters, forge, gram boiling shed, riding school, hospital, hospital assistant's quarters, dead-house, granary, latrine, forage yard.

3. It is to be observed that a deduction is made of Rs. 4,500 for old materials to be obtained by dismantling the arsenal in the fort. This subject is referred to in G.O., No. 1935 W., of the 11th July 1883, as about to be dealt with in a separate communication. The project for new ordnance buildings in a defensive post at Agram has been sanctioned in G.O., No. 3060 W., dated 30th October 1883, and the construction of these buildings will be carried out before the arsenal in the fort is abandoned. The materials of the arsenal will then be available for the cavalry buildings.

From the same officer, dated Chepâk, 15th December 1883, No. 3295.

In returning the plans and estimates for cavalry buildings at Bangalore sent with your letter, No. 2194 C., dated 13th ultimo, I have the honor to state that good coursed rubble stone in mortar with bond stones at intervals of 4 feet apart in each course is estimated to cost Rs. 20-5 per 100 cubic feet. It was considered that masonry of inferior quality and cheaper to build would not be suitable for the walls, some of which are 18 feet in height. Hence, if stone 18 inches thick be used instead of brick, the cost will be increased by Rs. 308 as shown below but the stone walls will certainly be preferable to brick and plaster—

1 File containing five tracings.
9 Detailed estimates.
10 Abstract "
2 General abstracts.
1 Report.

Brick in Chunam.			*Coursed Rubble Stone.*	
	RS.			RS.
Foundation stone in chunam 10,901 cubic feet at Rs. 12-8-0 per 100 cubic feet	1,361		Foundation stone in chunam, 14,536 cubic feet at Rs. 12-8-0	1,817
Brickwork above, 20,464 cubic feet at 25 per 100 cubic feet	5,117		Stone walls 18 inches thick, 26,311 at Rs. 20-5-0	5,344
Plastering 353·43 at Rs. 2-5-0 ...	817		Pointing 353·43 at Rs. 1-4-0	442
	7,295			7,603
				7,295
			Excess ...	308

2. A coupled roof was designed because there are couples obtainable from the old infantry barracks (in the fort) which are to be demolished. A deduction of Rs. 4,500 is made from the estimate of Rs. 29,737 on account of these old materials, and a width of 18 feet has been given to the buildings, because the old buildings from which the couples are to be taken are 18 feet wide.

3. Provision is made for a lightning conductor for the magazine.

No. 2569 C., Public Works.

Submitted for the approval of Government in the Military Department.

(By Order.)

(Signed) C. BOWEN, Major, R.E.,
Deputy Chief Engineer, P.W.D.

19th December 1883.

No. 6911, Military.

Approved.

(By Order.)

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

FORT ST. GEORGE,
24th December 1883.

ORDER—dated 10th January 1884, No. 47 W., Public Works.

The estimate, amounting to Rs. 25,237, for constructing public buildings for a regiment of native cavalry at Bangalore, is sanctioned.

2. A sum of Rs. 25,000 has been provided for the work in the Imperial Military budget for 1884-85.

3. The desirableness of substituting stone masonry for brick work in the walls of the various buildings should again be considered by the Superintending Engineer, who

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has, it is thought, over-estimated the cost of the former, and is himself of opinion that stone walls would certainly be preferable to brick and plaster.

4. This sanction has been registered as Imperial Ordinary No. 54 W. of 1883-84, 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 thirteen enclosures.
" Examiner, Public Works Accounts, with general abstract estimate.
" Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated January, 10th.

Recd. *Encl.*

G.O., 10th Jan. 1884, No. 47 W.

JANUARY.

Native Cavalry at Bangalore

Estimate, amounting to Rs. 25,237, for constructing public buildings for a regiment of —, sanctioned with remarks.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following letter from Colonel G. CHESNEY, Secretary to the Government of India, Military Department, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 30th May 1884, No. 528 M.W.:—

I am directed to acknowledge the receipt of your letter, No. 1136 W., dated 6th May 1884, forwarding plans and estimates for converting the racket court in Fort St. George into a covered gymnasium and for constructing public buildings for a regiment of native cavalry at Bangalore. I am now to return the plans and estimates with an expression of the concurrence of the Government of India in the suitability of the proposals.

2. As stated in this department letter, No. 477 M.W., dated 17th May 1884, funds cannot be allotted for these works during the current year, but they may be entered in the budget estimate for 1885-86.

ORDER—dated 20th June 1884, No. 1552 W., Public Works.

Communicated to the Superintending Engineer, V Circle, in continuation of G.O., No. 1413 W., dated 5th June 1884.

(True Extract.)

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

To the Superintending Engineer, V Circle, with fourteen enclosures.
„ Military Department.

Exd. E. Fernandez.
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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of [1884] Madras.

PUBLIC WORKS.

Dated June, 20th.

Read. *Encl.*

G.O., 20th June 1884, No. 1552 W.

JUNE.

Military Buildings

Letter from the Government of India returning, with remarks, plans and estimates for converting the racket court in Fort St. George into a covered gymnasium and for constructing buildings for a native cavalry regiment at Bangalore, communicated to the Superintending Engineer, V Circle.

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29TH NOVEMBER 1884, No. 2952 W., PUBLIC WORKS.

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, Military Department, dated Ootacamund, 12th November 1884, No. 208-A :—

I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimates, plans, &c., below mentioned, which have been approved by the Commander-in-Chief. The plans and estimates have been countersigned :—

I. Abstract and detailed estimates, with a general estimate amounting to Rs. 21,636, for constructing the following buildings required for a regiment of Madras Infantry located at the "Arab Lines," Bangalore:—

		Rs.
(*a*)	Armourer's shop	2,400
(*b*)	Place of arms and quarter guard	10,986
(*c*)	Magazine (for native cavalry and infantry)	4,980
(*d*)	Solitary cells	1,258
(*e*)	Store-rooms for camp equipage, &c.	2,012
	Total ...	21,636

II. Report and specification with four plans.

No. 5641, Miltary.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

FORT ST. GEORGE, 14th November 1884. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Offg. Secretary to Government.

ORDER—dated 29th November 1884, No. 2952 W., Public Works.

The plans and estimates, amounting to Rs. 21,636, for constructing public buildings for a regiment of Native Infantry at Bangalore, are sanctioned for execution when funds are available.

2. The provision for terminals of the lightning conductor to be attached to the magazine should be revised in the light of appendix A to the standard specifications of the Public Works Department.

3. This sanction has been registered as Imperial Ordinary No. 54 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 plans and estimates (8).
" Examiner, Public Works Accounts, with general abstract estimate.
" Military Department.

Exd. C. Howarth.

Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated November, 29th.

Recd. *Encl.*

G.O., 29th Nov. 1884, No. 2952 W.

NOVEMBER.

Public Buildings for N. I. Regiment, Bangalore

Estimates for —, sanctioned with remarks.

29TH MAY 1885, No. 1255 W., PUBLIC WORKS.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ again—

Government of India telegram, dated 1st May 1885, and letter No. 407 M.W., dated 1st May 1885, recorded in proceedings, No. 1039 W., dated 4th May 1885, and No. 1167 W., dated 18th May 1885.

Read also—

Telegram from the Suptg. Engineer, III Circle, dated 6th May 1885.
" " " " III " " 11th " "
" " " " IV " " 7th " "
" " " " IV " " 8th " " No. 178 E.W.
Letter from the " " V " " 4th " "
Telegram from the " " VI " " 8th " "
" " " " V " " 8th " " No. 536.
Letter from the " " IV " " 12th " " " 190 E.W.
" " " " VI " " 11th " " " 51 T.C.
" " " " Telegram from the Govt. of India, Military Dept., " " 20th " "

ORDER—dated 29th May 1885, No. 1254 W., Public Works.

In their telegram and letter of 1st May 1885, above recorded, the Government of India intimate that, in view of the present heavy expenditure they are called upon to incur, it is absolutely necessary to reduce the grants sanctioned for military works in 1885-86, and that expenditure must be limited to absolutely necessary repairs; to new works in progress which cannot be suspended without serious detriment to the State; and to works urgently required in view of preparedness for war.

2. In accordance with the above orders, the following grants sanctioned for military major works in 1885-86 have been surrendered to the Government of India:—

	RS.
Armourer's shop, light cavalry, Bellary	2,695
Improvements to gunpowder factory, Madras...	18,000
Converting racket court into a covered gymnasium, Madras... ...	11,570
Additions to military prison, Bangalore	8,325
Three out of six blocks of stables at St. Thomas' Mount	9,160
Public buildings for a regiment of native cavalry, Bangalore ...	14,000
Public buildings for two regiments of native infantry, Trichinopoly.	14,642
Total ...	* 78,392

	RS
* Works	78,392
Establishment	18,030
Tools and plant	784
Total surrender ..	97,206

3. The amount reserved in the budget for military minor works is only Rs. 20,000; whereas the demands for funds made by Superintending Engineers under this head amount to Rs. 25,311, notwithstanding that these demands have been based on the restrictive orders of the Government of India. While, therefore, it is not possible to surrender any portion of the reserve of Rs. 20,000, the Government consider that the grants to be made should on no account exceed that sum. The details of the distribution will be given in separate orders on the Superintending Engineers' statement of demands, and it is only necessary here to remark that the uncommenced work noted in the margin, brought forward by the Superintending Engineer, V Circle, and which apparently is neither urgent nor a work of defence within the meaning of the orders of the Government of India, will be suspended for the present; and that endeavours will be made to allot a sum of Rs. 3,020 for the fortified post at Agaram, Bangalore, a revised estimate for which has just been sanctioned.

"Constructing a draw-bridge and gate for the fort at Vellore," Estimate Rs. 6,450.

4. The amount reserved in the budget for military repairs is Rs. 2,94,549, and the reduced grants applied for by Superintending Engineers for this service amount to Rs. 1,45,596. A further sum of Rs. 3,953 has been reserved for repairs in the I Circle, the demand statement from which circle has not yet been received. The balance of the reserve, Rs. 1,45,000,* has been surrendered to the Government of India. The details of the distribution of the sum of Rs. 1,49,549 will be given in separate orders on the Superintending Engineers' statements of demands.

	Rs.
*Works	1,45,000
Establishment	33,350
Tools and plant	1,450
Total surrender ...	1,79,800

5. Ordered that a copy of these proceedings be forwarded to the Government of India, in the Military Department, in continuation of telegrams of the 13th and 22nd May 1885.

(Here enter No. 1255 W., dated 29th May 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.

ENDORSEMENT—dated 29th May 1885, No. 1255 W., Public Works.

Forwarded.

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

Exd. E. Fernandez.
Spare Copies

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GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated May, 29th.

Recd. *Encl.*

G.O., 29th May 1885, No. 1255 W.

MAY.

Funds

Forwarding copy of proceedings surrendering certain grants for military works in 1885-86.

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1303

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper:—

From the Government of India, Military Department, dated 19th June 1885, No. 588 M.W.

ORDER—dated 10th July 1885, No. 1595 W., Public Works.

In their letter above recorded, the Government of India acknowledge the surrender of Rs. 2,77,006 made in G.O., No. 1254 W., dated 29th May 1885, from the Madras military works grant for 1885-86, and state that, as it will not be necessary to withdraw the whole of that amount, the grant will be reduced by Rs. 2,00,000 only.

2. A sum of Rs. 77,006 is thus re-allotted to this presidency for military works, divided as follows:—

	Rs.
Works	62,102
Establishment	14,283
Tools and Plant	621
Total ...	77,006

and the following appropriations are made:—

Additions to military prison, Bangalore	8,325
Public buildings for a regiment of native cavalry, Bangalore ...	14,000
Converting racket court into a covered gymnasium, Fort St. George.	11,570
Three out of six blocks of stables, St. Thomas' Mount	9,160
Constructing a draw-bridge and gate for the fort at Vellore ...	6,459
Two rifle ranges at Veyasarapadi, Madras	4,170
Three rifle ranges at Agaram, Bangalore	3,680
Purchase of Dr. Wells' house at Hosúr	2,500
Constructing a school-house for the native sepoy regiment at Berhampore	1,390
Reserve with Government	857
Total ...	62,102

3. Superintending Engineers concerned will take early steps for utilising the allotments now made.

4. Ordered that a copy of these proceedings be forwarded to the Government of India in the Military Department.

(Here enter No. 1596 W., dated 10th July 1885.)

(True Extract.)

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

To the Superintending Engineer, I Circle.
" " " IV "
" " " V "
" Examiner, Public Works Accounts.
" Military Department.
" Financial "

Exd. E. Fernandez.
Spare Copies

17/1303

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated July, 10*th*.

Read. *Encl.*

G.O., 10th July 1885, No. 1595 W.

JULY.

Funds

Orders distributing the sum available, under Military Works, from the grant re-allotted by the Government of India.

18/1303

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, 28th May 1885, No. 1197 B:—

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:—

I. Estimate, amounting to Rs. 2,300, for remodelling the fronts, &c., of the three coast batteries at Madras, in accordance with G.O., dated 1st April 1885, No. 1786.
II. Plan.
III. Report, dated 21st April 1885, by the Executive Engineer, Presidency division.

2. His Excellency is of opinion that the work is of a very urgent nature, and desires me to express a hope that Government will see fit to issue the necessary orders in view to its being taken in hand as soon as possible.

3. The Commander-in-Chief understands that the thickness of earthwork in front of the Napier and Lighthouse batteries is 38 feet, which is so near that laid down by the Inspector-General of Fortifications in his memorandum, dated 6th December 1884, that His Excellency does not see the necessity for further increasing its thickness in the case of these two batteries.

4. Sir Frederick Roberts considers that the screen of trees proposed by the Executive Engineer should be extended along the coast line, so as to give no indication of the position of the batteries from the sea, and likewise that the bamboo screens, proposed to be erected before the trees have grown, should be placed on other points of the shore besides those where batteries have been erected.

5. I am also desired to invite the attention of Government to the timber lying on the shore referred to by the Executive Engineer in his report, and to suggest that, under the orders of Government, it may be either removed or utilised on the work under reference.

No. 2907, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

Ootacamund,
29th May 1885.

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

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 18th July 1885, No. 1651.

With reference to your memorandum, No. 1059 C., dated 15th June 1885, I have the honor to submit plans and estimate, amounting to Rs. 8,240, for modifying the coast batteries at Madras, as suggested by the Quartermaster-General in his letter, No. 1197 B., dated 28th May 1885, now returned.

2. Regarding the removal of timber lying on the shore and referred to by the Quartermaster-General in paragraph 5 of his letter, a separate report has been sent in Colonel Burton's letter, No. 1143, dated 19th June 1885.

ORDER—dated 14th August 1885, No. 1877 W., Public Works.

The estimate, amounting to Rs. 8,240, for alterations in the coast batteries at Madras, is sanctioned, and the amount is allotted by transfer from the current year's grant for public buildings for a regiment of native cavalry at Bangalore (item No. 2 in G.O., dated 10th July 1885, No. 1595 W.).

2. This sanction has been registered as Imperial, Ordinary, No. 32 W. of 1885-86, and classified as Military, Original Works.

3. Separate orders will issue on the subject referred to in paragraph 5 of the Quartermaster-General's letter.

(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 general abstract estimate.
" Military Department.

Exd. J. Henricus.
Spare Copies

19/1303

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated August, 14th.

Recd. *Encl.*

G.O., 14th Aug. 1885, No. 1877 W.

AUGUST.

Coast Batteries, Madras

Estimate for alterations in —, sanctioned with remarks.

20/1303

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepák, 10th August 1885, No. 2031:—

One letter from the Executive Engineer, Presidency, No. 2331, dated 8th August 1885, with copy of Quartermaster-General's letter, No. 2503-A., dated 4th August 1885, and tracing of site plan.

With reference to your memorandum, No. 396 E., dated 31st July 1885, I have the honor to report that Rs. 8,240 may be transferred from the grant of Rs. 14,000 for the Native Cavalry buildings at Bangalore for expenditure on the coast batteries at Madras.

2. The construction of these Cavalry buildings is postponed also by G.O., No. 1833 W., dated 8th August 1885.

3. There is an urgent demand for funds under Military repairs in the Chingleput division; the reduced allotment of Rs. 10,000 is found before the end of the first half-year of the year to be insufficient to meet absolutely necessary demands, and as the balance Rs. 5,760 is thus set free, I take the opportunity of asking that a further allotment of at least Rs. 5,000 may be given to Chingleput.

4. The difference Rs. 760 may be required to be retained at present in case of liabilities incurred on account of the collection of materials for the Native Cavalry buildings, as explained in paragraph 6 of the enclosed letter from the Executive Engineer, No. 2331, dated the 8th instant.

MEMORANDUM.

No. 443 E.

Referred, through the Military Department, to His Excellency the Commander-in-Chief.

2. As recommended by the Superintending Engineer, V Circle, a sum of Rs. 8,240 has been provided for remodelling the coast batteries at Madras by transfer from the current year's grant for constructing public buildings for a regiment of Native Cavalry at Bangalore.

3. The favor of His Excellency's opinion is now requested whether, with reference to the Quartermaster-General's letter, No. 2503-A., dated 4th August 1885, the construction of Cavalry buildings at Bangalore may be regarded as postponed for the present; and whether a further sum of Rs. 5,000 may be withdrawn from the grant of Rs. 14,000 provided for that work in G.O., No. 1595 W., dated 10th July 1885, to enable the Superintending Engineer to carry out emergent repairs to military buildings in the Chingleput division.

4. His Excellency's views are also requested on Colonel Burton's suggestions with respect to continuing the present arrangement, under which the Native Cavalry regiment at Bangalore is provided with hired buildings.

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

To the Military Department, with papers in original.

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Public Works Department (through the Military Department), dated Ootacamund, 20th August 1885, No. 2691-A.

With reference to paragraph 3 of your memorandum,* No. 443 E, of 13th instant, forwarded to this office under Military Department, No. 4467, of same date, I am desired to state that, in the opinion of the Provincial Commander-in-Chief, the construction of buildings for a regiment of Native Cavalry at Bangalore should not be regarded as postponed, the work being merely deferred till a fresh site can be decided on.

* Herewith returned with papers.

2. The sum of Rs. 8,240 was relinquished by Sir Frederick Roberts at the request of Government from the amount allotted for the Cavalry buildings as it was required for more important work on the coast batteries at Madras, but it being desirable that a commencement should be made this year in the work of constructing the Cavalry buildings at Bangalore, General Rowlands would beg that the further sum of Rs. 5,000, which it is proposed to transfer to the Chingleput division, may not be withdrawn.

3. With reference to paragraph 4 of your memorandum under reply, I am to say that the Provincial Commander-in-Chief is not in favor of continuing the present arrangement of hiring buildings for the Native Cavalry at Bangalore. There have been various changes necessary since the project of constructing these public buildings was originally contemplated, chiefly due in the first instance to Colonel Burton having designed a set of buildings of a far more elaborate and costly character than the Commander-in-Chief ever contemplated, and subsequently to certain obligations thrown on the Madras Army which may probably affect the strength of the garrison of Bangalore.

No. 4638, Military.

Forwarded.

(By Order.)

OOTACAMUND,
21st August 1885. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Offg. Secretary to Government.

ORDER—dated 26th August 1885, No. 1985 W., Public Works.

The foregoing letter from the Quartermaster-General will be communicated to the Superintending Engineer, V Circle, for information and guidance.

2. In the circumstances stated, no further reduction will be made for the present in the current year's grant for constructing public buildings for a regiment of Native Cavalry at Bangalore.

3. The Superintending Engineer must endeavour to propose other arrangements for enhancing the military repair grant to the Chingleput division.

(True Extract.)

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

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

Encl. 1. Memorandum.
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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of [1885] Madras.

PUBLIC WORKS.

Dated August, 26th.

Encl.

Recd.

G.O., 26th Aug. 1885, No. 1985 W.

AUGUST.

Funds

Orders on correspondence regarding — for certain military works.

25TH NOVEMBER 1885, No. 2813 W., PUBLIC WORKS.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General Account.

READ—the following papers :—

From the Military Department, dated 5th November 1885, No. 6191.

From Colonel W. H. BURTON, R.E., Officiating Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 12th November 1885, No. 3439.

With reference to your memorandum, No. 2529 D., dated 7th instant, I have the honor to inform you that the detailed estimate for the alterations and improvements required by the Commissary-General in the beer godown at Commissary-General's office at Madras has not yet been prepared, but the approximate cost will be under Rs. 4,000. I would propose that the following reappropriation of funds under Imperial—Military may be sanctioned :—

IMPERIAL—MILITARY.

Original Works.

From		*To*	
Presidency Division—		Presidency Division—	
Public Buildings—		Alterations to the Commissariat beer godown at Madras	Rs. 4,000
Native Cavalry regiment at Bangalore from Rs. 5,760, as per G.O., No. 1877 W., dated 14th August 1885	Rs. 4,000		

The work to the Native Cavalry buildings cannot be conveniently commenced yet as the recent change in strength of the Madras Cavalry regiments has necessitated a revision of the sanctioned plan and estimate, and the small amount of the grant left renders it impossible to effect any substantial progress on the work during this year. I would therefore recommend that the urgent work required by the Commissary-General be first commenced.

No. 1852 C.

Referred to the Military Department with advertence to endorsement in that department, No. 6191, dated 5th November 1885, for favor of very early information whether the Provincial Commander-in-Chief has any objection to the transfer of funds proposed by the Superintending Engineer, V Circle, to enable him to carry out urgently-required repairs to the Commissariat godown, Madras.

CHEPÂK,
14th November 1885.

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

From Colonel H. P. HAWKES, Officiating Commissary-General, to the Secretary to Government, Military Department, dated Madras, 11th November 1885, No. 5010.

In continuation of letters as per margin, I have the honor to annex copy of letter No. 5605 of 7th instant from the Executive Commissariat officer, Madras, and beg again to urge the necessity of seating the new boiler at the Government bakery.

Letter No. 5994, dated 13th February 1885, published in Proceedings of Government, No. 1249, dated 10th March 1885.
Letter No. 4865, dated 5th November 1885.

2. The bakery is working incessantly to make bread material for Burmah Expeditionary Force, and any accident to the present boilers would entail very serious inconvenience to the troops in the field.

No. 6376, Military.

Transferred to the Public Works Department in continuation of Military Department No. 6191, dated 5th November 1885.

(By Order.)

FORT ST. GEORGE, 12th November 1885. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Offg. Secretary to Government.

From Colonel W. H. BURTON, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Bangalore, 18th November 1885, No. 3525.

In returning your endorsement, No. 1860 C., dated 16th November 1885, I have the honor to propose that funds to the extent of Rs. 1,490, required for the improvements* to the Government bakery at Madras, may be transferred by reappropriation from the balance of Rs. 1,760 for the public buildings, Native Cavalry, Bangalore, available as per my letter No. 3439, dated 12th November 1885.

* Sanctioned in G.O., No. 634 W., dated 16th March 1885.

No. 1907 C.

Referred to the Military Department for favor of very early information whether the Provincial Commander-in-Chief will consent to the proposed further transfer from the grant for Cavalry buildings at Bangalore.

2. If the present reappropriation and that proposed in reference No. 1852 C., dated 14th November 1885, be agreed to, the entire grant for the Cavalry buildings will practically be withdrawn.

CHEPÂK, 21st November 1885. (Signed) J. SHAW-STEWART, Colonel, R.E., Secretary to Government, P.W.D.

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Fort St. George, 23rd November 1885, No. 485 T.

Adverting to G.O., No. 6462,† of 16th instant, and to reminder No. 6511 of 18th instant, I have the honor, by desire, to intimate that the Provincial Commander-in-Chief has no objection to the transfer of Rs. 4,000 from the grant for Cavalry buildings at Bangalore to alterations to Commissariat godown at Madras.

† Herewith returned.

2. I am further desired to take this opportunity of intimating that the Provincial Commander-in-Chief consents to the further transfer* of Rs. 1,490 from the grant for the above Cavalry buildings to improvements to the Government bakery, Madras.

* Reference order No. 6629, dated 21st November 1885, also returned.

23/1303

No. 6638, Military.

Transferred to the Public Works Department and the referred papers returned.

(By Order.)

23rd November 1885. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Offg. Secretary to Government.

ORDER—dated 25th November 1885, No. 2813 W., Public Works.

The following reappropriation of funds is sanctioned :—

IMPERIAL—MILITARY.

Original Works.

From	Rs.	*To*	Rs.
Public buildings for a regiment of Native Cavalry, Bangalore	5,760	Alterations to the Commissariat godowns at Madras	4,000
		Improvements to the Government bakery at Madras	1,490
		Reserve with Government	270
Total ...	5,760	Total ...	5,760

2. The Superintending Engineer, V Circle, will take steps for completing, with the least possible delay, the works for which allotments have now been provided, and will expedite the submission of an estimate for the proposed alterations to the Commissariat godown at Madras.

(True Extract.)

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

To the Superintending Engineer, V Circle.
„ Examiner, Public Works Accounts.
„ Military Department.

Exd. J. Henricus.
Spare Copies.

GENERAL
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated November, 25th.

Read. *Encl.*

G.O., 25th Nov. 1885, No. 2813 W.

NOVEMBER.

Funds

Certain reappropriation of —, sanctioned.

C. No. 346

29/1307

P. W. Secretariat.

29/1303

Note by Budget Section.

Work Public building for ... regiment of native Cavalry Bangalore. Remarks and References.

Fund		Imperial
Service Head	... ...	Military Works
Departmental Head	... ...	Original Works.
Amount of Estimate	... ...	Rs. 23490
Expenditure in previous year	...	,, ,,
Allotment in current year ...	...	,, ,,
Balance required to complete	...	,, ,,
	Total Rs...	,,

Note of available funds.

The original estimate of Rs 25237 sanctioned for this work in G.O No 47 W dt/10-1-84 was subsequently reduced to Rs 23490 and the sanction of the Government of India was obtained to the reduced amount vide G.O. No 1562 W dt/20-6-84. Against this sanction a sum of Rs 14,000 was provided in the Budget for 1885-86 but in G.O. No 1254 W dt/29-5-85 the whole of the grant was surrendered, owing to the restrictive order and in G.O No 1595 W dt/10-7-85 the amount was allotted again but transferred before expiring of the official year to meet outlay on other more important works. No outlay has been incurred on the existing sanction and no grant sanctioned for the work in the current year's Budget.

Budget Officer

GI/145

1302-1303 W

25/1303

A revised estimate amounting to Rs 30980 for constructing buildings required for a Regiment of Madras Cavalry at Bangalore is submitted by the Military Depart for disposal.

The original estimate amounted to Rs 25000 and was sanctioned in No 47 W of 10 Jan/84.

The revised estimate is necessary chiefly owing to the sanctioned increase to the strength of a Madras cavalry regiment & to other trifling alterations which are mentioned in the report.

The Armourer shop in the orig building according

26/1303

the standard plan but
all the others seem to
have been prepared
according to instructions.
and the plans & estimates
have been approved by
the Military Depart.
I have examined the
plans & all engineering
details seem correct

[signature]

11/5/84

Barracks and Buildings
Estimates.

27/1303

QUARTER MASTER GENERAL'S OFFICE,

Ootacamund, 29th April 1886.

No. 1662. A.

27/1303

From

THE QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT.

SIR,

I have the honor, by order, to forward for sanction and transfer to the Public Works Department for disposal, ~~the~~ Revised estimates, plans, &c., below-mentioned which have been approved by the Commander-in-Chief. The plans and estimates have been countersigned.

Abstract and detailed Estimates amounting to Rs: 30990 for constructing the following buildings required for a Regiment of Madras Cavalry at Bangalore, with four plans, report and specification

Place of arms and Armourers Shop Rs:	9370.
Horse Infirmary	6560.
Guard Room and Cells	4090.
School Room	1780.
Forage yard	2675
Road and Culverts	1865
Drains	3525.
Planting Trees & levelling ground	1125.
Total Rs:	30990.

I have the honor to be
Sir
Your obedt. servant

[illegible] Colonel
Offg. Qr. Mr. General

al

Pub/pro 3410

MILITARY 1886 DEPARTMENT.

28 No 2880

From
THE QUARTER MASTER GENERAL,

To
THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

No. 1062A

Dated 29 } April
Received } 30
Recd 7/5/86

With ENCLOSURES. 13 (1 plan)

Forwards Estimates, plans &c for sanction & transfer to the P. W. D. for disposal for constg: buildings for a Regt Madras Cavalry at Bangalore

W

G. O. No 7813 W 25-11-85
" " 1985 W 26-8-85
" " 1877 W 14-8-85
" " 1595 W 16-7-85
" " 1255 W 29-5-85
" " 1552 W 20-6-84
" " 47 W 10-1-84
" " 2952 W 29-11-84
" " 1935 W 11-7-83
" " 1607 W 29-5-83
" " 106 W 13-1-82
A. L. 1136 W 6-5-84
~~A. L. 47 W 10-1-84~~
" 5846 11-3-84
" 819 W 31-3-84
" 835 W 31-3-84
" 540 W 4-3-84
" 3002 W 24-10-83

Approved and transferred to the Public Works Department for disposal

(By order)

A. Kenney Herbert Lieut-Col
Secy to Government

Ootacamund
30th April 1886

Regd. 16/5/4
Resolved WC-16-5-86

Public Works Department, 1886-87.

29/1303

Current No. 3416
Letter No. 2617
Dated the 30th April 1886
From the Military Department

NOTE OF REMARKS.

1. The accompanying revised estimate and plans pro=vide for certain accommodation required for a Regiment of Native Cavalry at Bangalore

The amount of the present estimate is Rs 30,990 which is to replace the one of Rs 25,237 sanctioned in G. O. No 47 W. of 10-1-84 & the necessity for revision is fully explained in the accompanying report

2. The estimate of Rs 30,990 is thus divided

Place of Arms & Armourer's shop	Rs	9,370
Horse infirmary	"	6,560
Guard room & cells	"	4,090
School room	"	1,780
Forage yard	"	2,675
Roads & culverts	"	1,865
Drains	"	3,525
Planting trees & levelling ground	"	1,125
Total Rs		30,990

3. Only the Armourers shop is prepared according to the Standard plan, but the rest do not agree with the Standard plans, which are herewith sent for your perusal.

4. As for the quality of material of the buildings please see the specification attached

5. The scantlings of all timbers are correct.

6. The teak wood gate 10'x8' for forage yard is charged Rs 60 in the estimate, and the rest of the rates agree with the District Schedule.

7. The plan and estimate have been countersigned by the Offg. Qur. Master General and approved by the Military Department.

To D.W.

E. I. Form No. 22.

30/130

No. 1302 W

Br. R. Mil. Works

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 25 May 1886

READ the following:—

From the Quarter Master General. H. E. No. 1662 A d/ 29th April 1886.
Endorsement by the Military Deptt. H. E. No. 2617 d/ 30th April 1886.

3

The revised estimate amounting to Rs. 30,990, for constructing public buildings for a regiment of native cavalry at Bangalore, is sanctioned in supersession of the estimate of Rs. 23,490 sanctioned in G. O. No. 1552 W dated 20th June 1884.

2. The revision of the estimate is due chiefly to the sanctioned increase in the strength of a native cavalry regiment, and to change of site and other trifling alterations which are detailed in the report.

3. This sanction has been registered as Imperial Ordinary No. 6 W of 1886-87 and classified as Military Original Works.

4. Ordered that a copy of these Proceedings be forwarded to the Govt. of India, Military Department for information, with reference to their letter No. 525 W. d/ 30 May 1886.

To The Supdg. Engr. V Circle with 11 enclos.
" Examiner of P. W. Accts with the general abstract estimate
" Military Department.

H. E. No: 1303 W

Forwarded.

14/5/86

20-5-86

Deead
29/5/86

25-5-86

2575

6·15·5·86 · 8·25·5·86

3/1303

3410.

Govt. of 1886 Madras.

PUBLIC WORKS.

Dated 20/5/86

Recd.

Encl.

G.O., 25 May 1886, No. 1302.

1303.

Public buildings for a native Cavalry regiment at Bangalore

60/4

Revised Estimate of Rs 30,990 for construction sanctioned.

60/4 Public buildings for a native cavalry regiment at Bangalore

Copy of proceedings sanctioning a revised estimate for constructing — forwarded to the [illegible] of [illegible] [illegible] for information.

[illegible] 1 Pa 675