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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.

Page
No.

Dated

12/1/47

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MILITARY DEPARTMENT.
PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following papers :—

From the Acting Quarter Master General of the Army, Fort Saint George, 16th April 1860, No. 119; to the Secretary to Government, Military Department.

Military Department.

Order No. 124 of 10th January 1860.

A second Order, same number and date.

Extract Proceedings of Government No. 1163, 23rd March 1860.

I have the honor, by desire of His Excellency the Commander-in-Chief, to inform you, that in accordance with the Proceedings of Government marginally quoted, His Excellency has selected sites at the Mount for—

I. The European Infantry united Depôts. The extent of accommodation required for these, is specified in detail, in the Quarter Master General's letter, No. 814, dated 16th ultimo, to the Chief Engineer, and copy of which is appended.

II. The Powder Manufactory.

III. The Reserve Powder Magazine.

2. Sir P. Grant was accompanied on the occasion by
The Inspector General of Ordnance.

„ Acting Quarter Master General of the Army.

„ Superintendent Gun Powder Manufactory.

„ Brigadier Commandant of Artillery.

„ Superintending Engineer (Lieutenant Colonel Lawford.)

„ District Engineer (Captain Moberly.)

all these Officers were unanimous in their approval of the sites selected.

3. His Excellency suggests, that the Chief Engineer, and Inspector General of Ordnance may now be instructed in mutual communication, to submit Plans and Estimates of the required buildings for the Ordnance Establishments referred to.

4. The existing buildings, with those in addition which have been already sanctioned, such as married Quarters, School, Stables, &c., &c., are sufficient for the Artillery Force proposed to be permanently maintained at the Mount, viz., two Horse Field Batteries, one Reserve Company, and the Artillery Depot.

5. The small Expense Magazine constructed on Saint Thomas' Mount, on the slope next to the North Barracks, is found to be so damp as to render it quite useless as a Magazine. This arises it is believed, from a total want of ventilation, which is quite susceptible of being corrected, and Sir P. Grant suggests, that the Inspector General of Ordnance and the Chief Engineer should report on this point, and advise how the defect can be best remedied.

6. In conclusion, His Excellency again urges most strongly, that the Bullet Manufactory be removed to Saint Thomas' Mount from its present most objectionable position in Black Town.

From the Quarter Master General of the Army, Fort Saint George, 16th March 1860, No. 814; to the Chief Engineer, Department Public Works.

Your letter of 31st January last, has remained thus long unanswered, from the several references which it has been found advisable to make—an answer to the last of which from the Director General, Medical Department, copy of which is enclosed you will find dated 8th instant. To this letter I am desired by the Commander-in-Chief to invite your serious attention. His Excellency quite agrees with Doctor Pearse in his remarks. The observations in paras. four and six, Sir P. Grant remarks, deserve very special attention.

From the Director General, Medical Department, Fort Saint George, 8th March 1860, No. 422; to the Quarter Master General of the Army, Fort Saint George.

* Dated 29th February 1860.

Original enclosures herewith returned.

Having carefully considered the subject of your letter* No. 630, I have the honor to acquaint you for the information of His Excellency the Commander-in-Chief, that in the absence of a plan of the intended European

Depôt and Hospital at the Mount, I purpose stating my opinion generally on the sanitary measures necessary to be attended to, and on the accommodation necessary in the construction of a complete Establishment of the kind.

2. I would observe in the first place, that although (as intimated in your letter) at the present time, economy must be studied, it appears to me that in drawing out a plan for a complete Depôt and Hospital, all the requirements, as well prospectively, as those immediately necessary for such an establishment, should be provided for in the scheme, and borne in mind, even though it may not be possible to carry it out as a whole, for some time to come.

3. In this way the difficulty so often met with in India, in effecting improvements in Barracks and Hospitals, will be obviated. Under this view of the subject therefore, I conceive that as perfect a plan as possible should be sketched, the ground plan being laid out and spaces allotted, for the various buildings, whether to be erected now, or at some future time. These being of course reserved for their proper purposes, when the time shall arrive for completing them.

4. The cubic space of air proposed for each man viz., 1200 feet in Barracks, and 1500 in Hospital, I consider ample. But in stating this as my opinion, it is necessary to guard against an error which has some times been made. It is that the superficial space allowed should have a proper relative proportion to the height of the apartments, both in Barracks and Hospitals, for it is a fallacy to suppose that in lofty rooms of from 20 to 30 feet in height, the number of cubic feet above enumerated can be available for respiration, and men it is obvious, may be overcrowded, and the apartments imperfectly ventilated, unless sufficient superficial space as well as height be allowed. I would therefore propose that not more than from 16 to 18 feet of the height of any room, be taken into the computation, in calculating the cubic measurements.

5. The proposed Hospital accommodation viz., for 120 patients male, and 20 female, seems to provide sufficiently for the sick of a Depôt of 800 men.

6. An essential point, and one which I fear has been overlooked in the laying out of some European Cantonments, is, that before a single foundation is dug, a complete system of surface drainage should be provided for, and marked out, as this may become an insurmountable difficulty, and indeed has been found to be so, after buildings have been erected. At a station like the Mount, when owing to the low level, the difficulty of contriving effectual drainage is known to be great, this subject deserves most careful attention in a sanitary point of view.

7. As regards the Barracks, separate Cook-rooms, Necessaries, and Wash-houses for each block of buildings, as proposed, are indispensable.

8. Married quarters for 40 families being at the rate of only 5 per cent., appears to me rather below what is required, for I think I have lately seen that the number of women allowed to accompany their husbands to India, was 6 per cent. and besides, many Soldiers marry respectable women of European descent in India.

9. Of the buildings to be attached to the Hospital, marked from 1 to 8, in your letter, I do not see that any of them can be dispensed with, they are all required—but with regard to those recommended in Depôt Surgeon Lapsley's letter, I would observe, that although the Apothecaries for each that one good bath-room would be sufficient for the men's Hospital—that an Inspection Room and a separate Office for Medical Boards, seem to be superfluous, as one room would answer for both purposes, and that one female ward for 20 patients is all that is necessary, screens being allowed, a separate ward for Lying-in, however, is not required.

10. A Convalescent room in which books, newspapers &c., should be available is a desirable addition to every European Hospital.

11. Lastly, of the several buildings enumerated in the last clause of the proposed Establishment, some are obviously not only essential, but indispensable, viz., Surgeons' quarters, Guard-rooms, Defaulter-rooms &c., whilst others such as Racket-court, Skittle-ally, Officers' stables, Coach-houses, &c., are not so urgently required, and as before stated, may be erected at a future time the proper spaces being reserved for them.

Proposed buildings for one large European Depôt at the Mount to contain both that of Poonamallee and that of Arcot.

Barracks for 800 men in eight blocks, capable of holding 100 men. Each soldier to have 1200 cubic feet of air. Separate rooms for Non-Commissioned Officers at the rate of four for

every hundred men to be constructed, two at each end of every block. The building to have double verandahs, the inner verandahs to be 12 feet broad and to be used as Mess-rooms.

Attached to the Barracks.

Cook Rooms.....one for each Block.

Necessaries do. do.

Wash Houses.... do. do.

Married Quarters for 40 families with Necessaries and Wash Houses for the women and Cook-rooms.

A Hospital capable of containing 15 per cent. or 120 patients (male) when the Hospital is full, each man should have 1500 cubic feet of air.

Attached to the Hospital there should be

1. Apothecary's Quarters.
2. Hospital Serjeants' Quarters.
3. Guard Room.
4. Commissariat Store Room.
5. Ward for Insane Patients.
6. Ward for Ophthalmic Patients.
7. Dead Room (with good top light.)
8. Ward for women capable of containing 20 adults.

Necessaries for both males and females and one roomy Cook Room for the entire Hospital.

For the Establishment will be required

1. Serjeant Major's Quarters.
2. Quarter Master Serjeant's Quarters.
3. Orderly Room.
4. Orderly Room Clerk's Quarters.
5. Canteen.
6. Coffee Room.
7. Guard Room.
8. Defaulters' Room.
9. Minor Punishment Shed.
10. Depôt Store Room.
11. Six Solitary Cells.
12. Racket Court.
13. Skittle Alley.

Officers Quarters for

Commandant.

Adjutant.

2 Medical Officers.

2 Captains.

4 Subalterns.

Stables for 11 Horses and Coach Houses for four Carriages, two Cook Rooms, ten Necessaries.

Mess House capable of dining 24.

FORT SAINT GEORGE,
QUARTER MASTER GENERAL'S OFFICE,
4th February 1860.

(Signed) F. A. REID, Colonel
Quarter Master General.

P. S.—Pay Office, School Master and Mistress' Quarters, School Room Boys, School Room for Girls, Serjeants' Mess House, Reading Room and Library for Soldiers.

(Signed) G. TALBOT, Lieut. Colonel,

Deputy Quarter Master General, H. M's. British Forces.

From Depôt Staff Surgeon, Poonamallee, 16th February 1860; to the Commandant, Poonamallee.

I have the honor to submit the following few suggestions on the proposed buildings for a European Depôt at the Mount.

Barracks.

A large Plunge Bath 25 x 13 x 6 feet to every 4 blocks.

Hospital.

1. Each Apothecary attached to the Hospital ought to have Quarters.
2. Two Bath Rooms, one at each end of the Hospital Building.
3. Inspection Room.
4. Office for Medical Officers, and as a place of Meeting for Medical Boards.
5. A Surgery and Dispensary in one.
6. Medical Store Room adjoining No. 5.
7. Ward for Skin diseases same as that proposed for Ophthalmic patients.
8. Two Female Wards, one to be used exclusively for Lying-in women.
9. A Matron's Room adjoining No. 8.

For the Establishment.

A Reading Room and Library in addition to the other buildings specified in the document.

ORDER, No. 1673, 4th May 1860.

Communicated to the Department Public Works, in view to the Chief Engineer being called upon to submit Plans and Estimates for the Buildings in question, in communication with the Inspector General of Ordnance.

2. The state of the Small Expense Magazine at the Mount will also be inspected and reported on by the above Officers.

3. With regard to the removal of the Bullet Factory to the Mount as recommended by the Commander-in-Chief, the Governor in Council observes that on a site being approved by His Excellency for that Establishment, Plans and Estimates may be submitted for the Buildings required.

4. The Governor in Council desires that the Plans and Estimates for the buildings now under consideration may be prepared separately for the several works, commencing with those for the Dépôt, the probable period required for the completion of each work being stated.

(True Extract.)

Deputy Secretary to Government.

To the Department Public Works.

„ Quarter Master General.

„ Inspector General of Ordnance.

„ Adjutant General, for information.

*Proceedings of the Madras Government, Public Works Department,
for the month of May 1860.*

No. 38. Read the following Proceedings of the Madras Government in the Military Department, dated 4th May 1860, No. 1,673 :—

Communicating a letter from the Quarter Master General of the Army in view to the Chief Engineer being called upon to submit Plans and Estimates of the Buildings required for the Ordnance Establishments at the Mount. } (Vide Military Proceedings from 1st to 10th May 1860, Nos. 122-123.)

No. 39. ORDER THEREON, 22nd May 1860, No. 1,667.

Ordered to be communicated to the Chief Engineer for information and guidance.

(Signed) C. G. MASTER.

Dy. Secretary to Government.

Mr. J. B. DeLand and
Proc. of Grad. Assoc. May

Ms. A. 9. 2. 6. 4

Proc. of the Mass.
Governor
2/27 and 2 May 1860

1067 of 60

From the Publishing
Office and must be
384 No. May 15th
1874
No. 1314 in
of the New York

82-28-39

And saying that
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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Comm. 20.5.1860

G.O. No.	998	Press Mis.
43-44 Dated	14-5-	1860.

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*Proceedings of the Madras Government, Public Works Department,
for the month of May 1860.*

No. 43. Read the following:—

No. 103.

List of a Bill for works executed on emergency, submitted for the sanction of Government.

Audit No.	Date of Bill.	From whom.	Description of Work.	Amount of Bill.			To what year the expenditure appertains.	Remarks.
				R.	A.	P.		
2,062	Feb. 28	Garrison Engineer of Fort Saint George.	Placing a Stink Trap over the Drain that passes through the Laboratory enclosure in lieu of the open grating, executed by order of the Barrack Master, No. 612, dated 2nd August 1859.	69	15	0	1859-60.	

(Signed) J. H. BELL, Colonel,
Chief Engineer.

Central Office of P. W.,
Chepauk,
2nd May 1860.

No. 44.

ORDER THEREON, 14th May 1860, No. 998.

The Bill is sanctioned.

(Signed) J. D. BOURDILLON,
Secretary to Government.

List of Bills for works executed on Emergency submitted for the sanction of Government.
No 163

Date of Bill	From whom	Description of Work	Amount for Bill	To what year the expenditure appertains	Remarks
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1860					
21 st Feb 28	Garrison Engineer	Placing a Sink Trap over the			
	of Fort Smith George	Draw that paper through the			
		Laboring enclosure within of			
		the open grating executed by			
		order of the Barrack Master			
		At 6 ¹² dated 3 rd August 1859.	by 15	1859/60	

Central Office P.M.
 Chequers
 2nd Aug 1860

Lt Col R. Mayo
 for Chief Engineer etc.

For The Secretary to Government
 Public Works Deptt

[Signature]
 Colonel
 Chief Engineer

30,771/860 Delit
Div of Genl & 205 Alky.
No 1099.

How,
The Chief Engineer
of
The Chief of Government
D. P. M. D.

Dated 22nd } May 1866
Recd 1/4 } No 1118

2 Conc'd and
Sent of D. Bill

Received from the Honorable
Engineer of the St. George
for works executed on River
money submitted for the
sanction of Government
Amounting to \$969-15-.

No 998.

The bill is mentioned.

From W. M. George
112 May 1866
10 Copies of Chief Engineer with Bill D. P. M. D.
1 " Accompanied by same D. P. M. D.

1043444.

With answer

No 998. 11 May