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# MADRAS RECORD OFFICE.

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## Government of Madras.

Public works DEPARTMENT.

G.O. No. 791 Press ~~Mis.~~

331-32

Dated 15 - 3 1867.

***Not to be folded or roughly handled***

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*Proceedings of the Madras Government, Public Works Department,*
*15th March* 1867.

No. 331. Read the following Proceedings of the Madras Government in the Military Department :—

Requesting the issue of orders regarding the drainage of the new Lines at Royapoorum, and approving of the plan of those Lines and of the size of the huts. } (Here enter 9th March 1867, No. 854.)

No. 332. ORDER THEREON, 15th March 1867, No. 791.

MILITARY WORKS, No. 28.

Communicated to the Superintending Engineer of the 4th Division, who will submit at an early date plans and estimates for the drainage of the new Lines at Royapoorum.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
*Secretary to Government.*

## MILITARY DEPARTMENT.

### *PROCEEDINGS OF THE MADRAS GOVERNMENT.*

Read the following papers:—

Memorandum from the Quarter Master General, Fort Saint George, 22nd February 1867, No. 1444; to the Secretary to Government, Military Department.

The within letter and its enclosures received from the Committee convened under the Order of Government, dated 29th January 1867, No. 368, are submitted for the consideration of the Right Honorable the Governor in Council.

2. The Commander-in-Chief concurs generally in the proposals of the Committee, with reference to the plan of the lines for the Native Regiment at Royapooram, the size of the huts, &c.

3. His Excellency recommends that the suggestion of the Committee in regard to the drainage of the site, should receive the early consideration of the Department Public Works.

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**No. 531.**

*To the Quarter Master General, Fort Saint George.*

In conformity with the instructions conveyed in paragraph 11 of Lord Napier's minute, contained in the Proceedings of Government, Military Department, No. 368, dated 29th January 1867, we have the honor to report to the Commander-in-Chief, that we have carefully examined the site selected for the lines at Royapooram.

*Enclosures six.*—

1 *Ground plan of the lines at Royapooram.*
1 *Plan of Sapper huts for Privates at Bangalore.*
1 *Do. do. do. for Havildars and Naigues.*
1 *Do. do. quarters for Buglers.*
1 *Do. do. Native Officers' quarters.*
1 *Block plan of do. do.*

2. The accompanying plan exhibits the levels of the ground and the description of the huts which we consider the best that can be adopted.

3. That portion of the ground now marked "*gardens*," between the old town wall and the space now proposed to be occupied by the Sepoy's huts, could not be utilized as building sites from its broken character and low level, unless a large sum is expended in raising this portion of the ground, which would be a most expensive process.

4. We have therefore been obliged to avail ourselves of the remaining high ground and propose to utilize the lower level as soldier's gardens. There is a sufficient supply of water close to this ground which will ensure these gardens being successful and a source of profit to the Sepoys.

5. It will be observed that even with this limited space, to six companies an ample amount of space has been given. We have allowed forty feet of road-way between each of the sub-division blocks, being fifteen feet in excess of the present regulation interval, and have placed these blocks so that the prevailing winds will blow freely through the broad highways.

6. Where the nature of the ground does not admit of so large an area that is in the blocks marked yellow, for two companies we have placed them in a position to receive fully the prevailing winds, but have only been able to give twenty-five feet of road-way between the sub-divisions, but these have been again divided into sections with a cross highway fifty feet in breadth, which will meet the suggestion contained in Lord Napier's minute of increased divisions and intersections for ventilation and passage.

7. It should be observed that the burial and burning grounds indicated on the plan have not for a considerable time been used for these purposes. These therefore will have no evil influence on the health of the lines, although it would be very difficult to remove the existing tombs.

8. The privy marked lake will be removed during the construction of the lines, and it will be necessary to fill in the large holes marked in the plan, which are at present receptacles for filth.

9. We have carefully considered the important question as to the best size of huts and yards for the Sepoy lines, and we believe that the lines recently built for the Sappers at Bangalore, of which plans are enclosed, answer all the requirements with due regard to economy.

10. The space of ground at Royapooram suitable for building would not however contain the whole of the buildings according to the Sappers' plan.

11. We therefore propose to give for the privates' huts, the full space allotted to the huts of the privates of the Sapper Corps, and to diminish the space of the houses of the Non-Commissioned and Commissioned Native Officers.

12. Even thus diminished, the houses of these Officers will occupy the space they now have by regulation for Native Infantry lines, which is ample as regards their sanitary condition, although a larger space would add to the comfort of such quarters, if the site would admit of such extension.

13. The scheme of drainage for the huts is indicated by the single and double blue lines—the single lines representing shallow open drains, the double lines indicating covered pipe drains which will convey the sewage of the lines to the main drains of the town.

14. The construction of these drains is of the greatest importance and will no doubt receive from the Department Public Works, the careful consideration which any extensive drainage, even of the simplest description, requires.

15. The best constructed lines will in a very short time become unhealthy, unless *ab initio* the drainage is carefully laid so as to enable the drains to be flushed and completely cleaned daily.

16. The apparatus for the private conservancy of each hut which the undersigned would recommend is of the simplest character, but is based upon the experience of the wards of the central Jails at Bangalore and the district Jail at Bellary.

17. This apparatus consists of a stone trough, or if this is not procurable, a brick and mud trough three feet long by eighteen inches wide and one foot deep, filled with three inches of sifted earth.

18. The earth prevents even in a ward closed during the night, any offensive smell. If these simple contrivances are introduced into the Sepoys' yards and cleaned daily, the conservancy of the dwellings will be as complete as is compatible with a moderate outlay. But this system depends entirely upon the use of dried earth, and the observance of the method being enforced by the Regimental authorities.

We have, &c.,

(Signed) R. S. ELLIS,
*Sanitary Commissioner.*

( „ ) W. MACKENZIE, M. D.,
*Inspr. Genl. of Hospitals.*

( „ ) A. DRURY, Major,
*Dy. Qr. Mr. Genl.*

OFFICE OF SANITARY COMMISSIONER,
MADRAS, 16*th February* 1867.

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ORDER, No. 854, 9th March 1867.

Ordered to be communicated to the Public Works Department, in view to the necessary orders being issued regarding the drainage of the new lines at Royapooram.

2. The proposals of the Committee, with reference to the plan of the lines and size of the huts, are approved.

(True Extract.)

A Macmillan *Colonel,*
*Deputy Secretary to Government.*

To the Quarter Master General.
„ Public Works Department, with six plans. V20 Spare Copies.
„ Adjutant General.
„ Controller of Military Accounts.
„ Sanitary Commissioner, ... ...
„ Inspector General Medical Department, } for information.

Exd. T. Stubbs.

10. The space of ground at Royapooram suitable for building would not however

Copy of Letter from Chief Engineer to Collector of Madras dated 15th March 1867.

Requesting the name of a surveyor who might be employed by the Municipality to take the levels at Royapooram.

Copy of Letter from Collector of Madras to Chief Engineer dated 16th March 1867.

Forwarding Mr. Blair's plan of Royapooram with the levels taken by him.

Letter from Chief Engineer dated 15th March 1867.

Returning the plan of Royapooram with the levels taken by Mr. Blair.

Ex. 9" Fee 12"

Ex. 6.

No 057.

Ex. 7.

No 791

Letter No 331 - 332

Commd. D. and S.E. of the L. Dr. who will submit at an early date plans and estimates for the drainage of the new lines at Royapooram.

G 2554 Dn. with plans

Fort St. George 15th March 67

Dock P. 16th March

Dix plans Dock 18/3/67