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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	3119	Press
		Mis.
Dated	31-10-1864.	

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
31st October 1864.*

No. 581. Read the following letter from Captain H. TULLOCH, R. E., Special Executive Engineer, to Colonel C. A. ORR, R. E., Secretary to Government, Department of Public Works, dated Madras, 21st October 1864:—

SIR,

1. I have the honor to report to you the state of the project on which I am engaged.
2. The general sections and plans of the main and branch sewers have for some time been quite completed. The details also of all portions of the sewers which require "special" designs are also now completed. As these designs have all been drawn by myself, I have had but little time to write the report and specifications. The former, however, is in a forward state, and the latter are partly written. The time consumed in a project of this nature is great, simply for the reason that all the work—from the general design to the minutest particulars—devolves on the Head of the office. From want of acquaintance with the nature of the work the subordinates are unable to give the same proportion of help as in an Executive Engineer's Office. The amount of labour, therefore, which in consequence is thrown on the Engineer is very much greater than might be supposed. My subordinates have worked most satisfactorily at their regular duties. All the surveys are finished, and every portion of the town has been levelled. Every kind of check has been made on both the surveys and levels in order to prevent the possibility of any material error. So far as the out-door work is concerned, I believe it to be most correct. As soon as the weather clears up again, it is intended to resume the checks for the last time, so that when the project is submitted the data on which it is based may be as reliable as care and precaution can render them.
3. The detailed estimate for all the works is in hand, and I hope to have this completed before long. The estimates will be the simplest part of the whole work, and they will be so arranged that an opinion may easily be formed as to the sufficiency or insufficiency of either the quantities or the rates.
4. I propose to commence the printing of both the specifications and report next month.
5. The plans, of which there will be about 190, will be arranged and bound in books. Each sewer to have a separate book. There will be in all fourteen books. As I have no means at hand of doing the binding, I beg respectfully that you will kindly obtain the sanction of Government to the work being done at their Press, where they are used to the work and where all the materials are at hand.
6. Each set of plans will consist of 14 books, so that there will be in all 56 books, an amount of binding which could not be undertaken except by a proper establishment.
7. The extra Draughtsmen, sanctioned by Government, have been employed entirely in preparing the extra copies of the plans which will be required for the Bengal and Home Governments. These are in a forward state.
8. Every effort is now being made to bring the work to a close, and I trust that in a very short time the entire project will be laid before Government.

No. 582. ORDER THEREON, 31st October 1864, No. 3,119.

Sanction is granted for the work referred to in paragraph 5, being undertaken by the Government Press.

(True Extract.)

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

To the Superintendent, Government Press.
To Captain H. Tulloch, Special Executive Engineer.

Exd. S. T. Augustin.

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From Captain H. Tullock. R.E.
Special Engineer

To Colonel C. A. M. R.E.
Secy. to Govt. Dep't of P. W.

Sir,

I have the honor to report
to you the state of the project on
which I am engaged.

The general sections and
plans of the main and branch
sewers have for some time been
quite completed. The details
also of all portions of the
sewers which require "special"
designs are also ^{now} completed.
As these designs have all been
drawn by myself I have had
but little time to write the Report.

and Specifications. The former, however, is in a forward state and the latter are partly written. The time consumed in a project of this nature is great simply for the reason that all the work - from the general design to ^{the} minutest particulars - devolves on the head of the Office. From want of acquaintance with the nature of the work the subordinates are unable to give the same proportion of help as in an Executive Engineer's Office.

The amount of labour therefore which in consequence is thrown on the Engineer is very much greater than might be supposed.

My subordinates have worked most satisfactorily at their regular duties. All the surveys are

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finished and every portion of the town has been levelled. Every kind of check has been made on both the survey levels in order to prevent the possibility of any material error. So far as the out door work is concerned I believe it to be most correct. As soon as the weather clears up again it is intended to resume the checks for the last time so that when the project is submitted the date on which it is based may be as reliable as care & precaution can render them.

3. The detailed Estimate for all the works is in hand, & I hope to have them completed before long. The Estimates will

be the simplest part of the whole work, and they will be so arranged that an opinion may easily be formed as to the sufficiency or insufficiency of either the quantities or the rates.

I propose to commence the printing of both the Specifications & Report next month.

The Plans, of which there will be about 190, will be arranged and bound in books. Each sewer to have a separate book. There will be in all 14 books. As I have no means at hand of doing the binding, I beg respectfully that you will kindly obtain the sanction of Government to the work being done at their Press,

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where they are used to the work & where all the materials are at hand.

Each set of plans will consist of 14 books, so that there will be in all 56 books, an amount of binding which could not be undertaken except by a proper establishment.

7 The extra draftsmen sanctioned by Government have been employed entirely in preparing the extra copies of the Plans which will be required for the Bengal & Home Journals. There are in a few words.

8 Every effort is now being made to bring the work to a close, and I trust that in a very short

time the future Project will
be laid before government.

I have the honor to be
Sir

Your most obedient servant

H. Muller Capt R.E.

Special Engineer

Madras }
21st October }

1834
Pro: of Virginia
Pro: of Virginia
Pro: of Virginia

Wm. A. Fullard
Esq.
Spirited Surgeon

To
Colonel E. A. M.
West of Fort. M. W.

Depot Station 21. 2/27/64
Dec. 4. 27. 27

Reports on the
progress of the
project for the
analysis of
Mendocino

election is granted
for the work referred to is
being undertaken
by the Government Dept.

2503119

To the Right Government
 of the
 Captain Alfred Dreyfus
 Reactive Engineer

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Schmidt
31st Oct/64

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no, 3119-3125 Dec 1864

Q. 25-6 Oct, 1864 - Q. 27th