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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2922	Press
172-173	
Dated 11 - 10 -	1864.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
11th October 1864.*

No. 172. Read the following letter from Captain J. MULLINS, R. E., Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department of Public Works, dated Madras, 5th October 1864, No. 114:—

SIR,

1. In acknowledging the receipt of your Memorandum No. 10 of the 4th instant, I have the honor to inform you, with reference to Proceedings of the Madras Government No. 2,660 of the 14th September 1864, that as the report therein received contained all the information

Paragraph 10.

available regarding the reservoir survey operations up to the end of June, it was not my intention to report to Government again until I had received from the Agent the information, which was asked for in the above Order, as however

17th September.

I have recently received a copy of the Chief Engineer's general report for July, the particulars it contains regarding the reservoir survey operations may be given.

2. The subjoined extract is from Colonel Cotton's report:—

1st. BELLARY DIVISION:

"The survey operations for reservoirs are in abeyance during the monsoon. Mr. Gordon's report* on the Madaba site is trans-

* With tracing.

mitted herewith for the Consulting Engineer.

"The survey of the scheme of irrigation for the Bellary District has proceeded chiefly near the head. A centre line has been marked out as far as Amravutty, and cross sections have been taken. The portion of the line under question lies near the Darajee tank. It was laid out originally to pass round the cliffs near the tank calingulah, but Mr. Gordon is levelling for a line to be compared with this if possible to lessen the difficulty in that part. The survey party from Shemogah had returned to Bellary."

3. Mr. Gordon's report with the tracing referred to is enclosed. The exact information it contains is not much, for it will be observed that the greater part of the line denoting the water spread of the tank has been sketched in, and it is not mentioned with what height of bund, or depth of water thereat, the area of 13 square miles would be obtained, but as that area is equal to a little over 40 millions of square yards, it follows that the average depth would be 6½ yards. Probably, with the help of cross sections of the river at the other two sites, which Mr. Gordon intended to examine, the levels being prolonged to the contour of the site already partially investigated, it would be possible to judge whether those sites offer advantages such as would render a more detailed examination advisable. Care is required to prevent the time of the establishment being lost in the investigation of sites offering no sufficient *prima facie* advantages.

4. With reference to paragraph 9 of my letter of the 24th August, No. 82, and paragraph 4 of the Order of Government already referred to, the letter No. 1,088 of the 1st ultimo, from the Agent Irrigation and Canal Company, is enclosed, from which it will be seen that Mr. Henslowe is not in possession of orders from the Board of

Paragraph 4 of letter No. 1,088.

the tenor of those alluded to by the Chief Engineer. The Agent's letter No. 1,444 of the 11th November 1863, was communicated to Government on the 16th idem, No. 98.

No. 173. ORDER THEREON, 11th October 1864, No. 2,922.

The Consulting Engineer will be requested to call upon the Company's Manager to obtain from the Chief Engineer copy of the Board's orders referred to in paragraph 4 of Proceedings No. 2,660, dated 14th ultimo.

(True Extract.)

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

To the Consulting Engineer, Irrigation and Canal Company:

do. do. do.

Exd. S. T. Augustin.

Consulting Engineer's Office,
Irrigation & Canal Company,
Madras, 5th October 1864.

N^o 114.

Sir,

Captain J. Mullins, R.E.
Consulting Engineer & Co.

The Secretary to Government
Department of Pub. Works.

Sir,

1. In acknowledging the receipt of your
Memo. N^o 10 of the 4th instant, I have the honor
to inform you, with reference to Proceedings of the
Madras Government N^o 2660 of the 14th Septem-
ber 1864, that as the report therein received con-
tained all the information available regarding the
Reservoir Survey operations up to the end of June,
it was not my intention to report to Government
again until I had received from the Agent the in-
formation, which was asked for in the above order,
as however I have recently received a copy of the
Chief Engineer's General report for July, the parti-
culars it contains regarding the Reservoir Survey
operations may be given.

2. The subjoined extracts from Colonel
Cotton's report.

1st Battery Division.

The survey operations for Reservoirs are in
abeyance during the monsoon - Mr Gordon's report

on the Madaba side is transmitted herewith for the Consulting Engineer. The survey of the scheme of irrigation for the Bellary District has proceeded chiefly near the head. A centre line has been marked out as far as Amravutty and cross sections have been taken. The portion of the line under question lies near the Marajee Tank. It was laid out originally to pass round the cliffs near the Tank, Kalimulak, but Mr. Gordon is leveling for a line to be compared with this if possible to lessen the difficulty in that part. The survey party from Chermogah has returned to Bellary.

3. Mr. Gordon's report with the tracing referred to is enclosed. The exact information it contains is not much, for it will be observed that the greater part of the line denoting the water spread of the tank has been sketched in, and it is not mentioned with what height of bund, or depth of water thereat, the area of 15 square miles would be obtained, but as that area is equal to a little over 40 millions of square yards, it follows that the average depth would be $6\frac{1}{2}$ yards. Probably with the help of cross sections of the river at the other two sides, which Mr. Gordon intends to examine, the levels being prolonged to the contour of the site already partially investigated, it would be possible to judge whether those sides offer advantages such as would render a more detailed examination advisable. Care is required to prevent the time of the establishment being lost in the investigation of sites offering no sufficient prima facie advantages.

4. With reference to para. 9 of my letter of the 24th August

para. 4 of letter
No. 1088.

August No. 82, and para. 4 of the order of Government already referred to, the letter No. 1088 of the 1st ultimo from the Agent Irrigation and Canal Company is enclosed, from which it will be seen that Mr. Stenhouse is not in possession of orders from the Board of the kind of those alluded to by the Chief Engineer. The Agent's letter No. 1444 of the 11 November 1863 was communicated to Government on the 16th idem No. 98.

Have the honor to be,
Sir,
Your most obedient servant,
John Dyer, Captain,
Bombay Engineer & Co. Company.

Edw. Dyer.

Co. June a dollar 10.00
8/23. Remitted. 10.87 1864

B. J. & Co.
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The Consulting Engineer
will be requested to call upon the
Company's Manager to obtain
from the Chief Engineer. copy
of the Board's orders referred
to in para 4 of Proceeding
No. 2660, dated 14thultimo.

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